

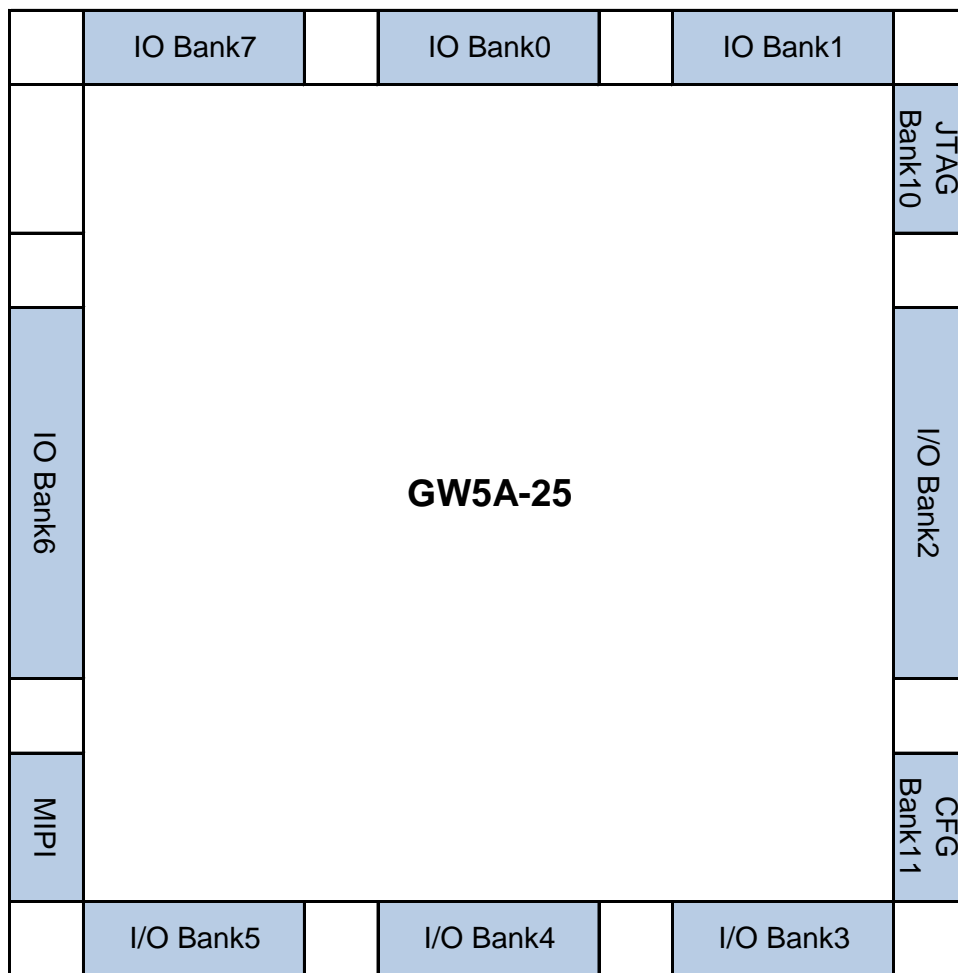
| 日期 | 版本 | 说明 |
|------------|-------|--|
| 2023/4/20 | 1.0 | 初始版本，支持MG121N、UG324S、UG256C、PG256C、UG324封装。 |
| 2023/5/25 | 1.1 | 更新Pin Definitions页中MI0、MI1、MI2、MI3的管脚定义。 更新所有封装IOB58A、IOL3A、IOL14A、IOR24A、IOR31A的PLL配置信息。 新增MG196S、UG225S封装。 更新Pin List 页中MG121N封装的MODE信息。 更新Pin Definitions页中的注释。 |
| 2023/6/30 | 1.2 | 新增LQ100和PG256S封装。 更新Pin Definitions页中DIO管脚定义。 |
| 2023/8/10 | 1.2.1 | 优化Power页中UG324封装的VCC_EXT描述。 |
| 2023/9/8 | 1.2.2 | 更新Pin Definitions页中SSI管脚的描述。 |
| 2023/9/28 | 1.3 | 新增PG256封装。 更新Pin List页中的X16信息。 更新Pin List页中IOB26A/IOB26B/IOB33A/IOB33B的管脚信息。 |
| 2023/10/31 | 1.3.1 | 删除LV版本UG256C和PG256C。 删除Pin List页中UG324S封装的VCCIO10管脚。 删除MCKTEST、ADCINCLK、ADCOTEST管脚的配置信息。 更新Pin List页中LQ100 PIN22和PIN44的管脚名改为NC。 |

| 管脚名称 | 方向 | 说明 |
|--------------------------------------|----------|--|
| 用户I/O管脚 | | |
| IO [End][Row/Column Number][A/B] | I/O/LVDS | [End]提供管脚在器件中的位置信息，包括L(left) R(right) B(bottom) T(top) |
| | | [Row/Column Number]提供管脚在器件中的具体行列位置信息，若[End]为T(top)或B(bottom)，则提供列信息，即管脚对应的CFU列数。若[End]为L(left)或R(right)，则提供行信息，即管脚对应的CFU行数 |
| | | [A/B]提供差分信号对信息 |
| | | 方向为LVDS时表示该管脚只支持真LVDS输出 |
| [pin]_[End][Row/Column Number][A/B] | I/O | [pin]管脚名称，其他信息同上 有封装管脚的短接IO，按数字大小排序，第一个IO使用管脚的名称，其他短接的使用管脚名称和去掉IO字符位置信息拼接，如IOR1A/IOB14A短接，管脚名为C1，则IOR1A对应C1，IOB14A对应C1_B14A |
| 多功能管脚 | | |
| IO [End][Row/Column Number][A/B]/MMM | | 多功能管脚定义，/MMM表示在用户I/O功能的基础上有另外的一种或多种功能。当这些功能不使用的时 候，这些管脚可以作用用户I/O |
| D00 | I/O | CPU模式：数据输入或输出(双向)管脚D00 MSPI模式：X1模式下串行数据输入，X2, X4模式下并行数据bit1的输入管脚，连接外部Flash器件的 DQ1/Q/SO/IO1管脚 |
| MI0 | I/O | MSPI模式：串行指令和地址输出，以及X2, X4模式下的并行数据bit0的输入管脚，连接外部Flash器件的 DQ0/D/SI/IO0管脚 |
| MI1 | I/O | MSPI模式：X1模式下串行数据输入，X2, X4模式下并行数据bit1的输入管脚，连接外部Flash器件的 DQ1/Q/SO/IO1管脚 |
| MI2 | I/O | MSPI模式：X4模式下并行数据bit2的输入管脚，分别连接外部Flash器件的DQ2/W#/WP#/IO2管脚 |
| MI3 | I/O | MSPI模式：X4模式下并行数据bit3的输入管脚，分别连接外部Flash器件的DQ3/HOLD#/IO3管脚 |
| D01 | I/O | CPU模式：数据输入或输出(双向)管脚D01 MSPI模式：X4模式下并行数据bit2的输入管脚，分别连接外部Flash器件的DQ2/W#/WP#/IO2管脚 |
| D02 | I/O | CPU模式：数据输入或输出(双向)管脚D02 MSPI模式：X4模式下并行数据bit3的输入管脚，分别连接外部Flash器件的DQ3/HOLD#/IO3管脚 |
| D03 | I/O | CPU模式：数据输入或输出(双向)管脚D03 |
| D04~D07 | I/O | CPU模式：数据输入输出端口D04~D07 |
| D08~D15 | I | CPU模式：数据输入端口D08~D15 |
| CCLK | I/O | 配置时钟 Slave模式：CCLK为输入，需要连接外部时钟源 Master模式：CCLK为输出 |
| EMCCLK | I | 外部输入时钟信号 Master模式：EMCCLK用作FPGA配置逻辑，以及输出CCLK的时钟源 Slave模式：EMCCLK对slave模式没有关联 |

| 管脚名称 | 方向 | 说明 |
|-----------|---------|---|
| MOSI | I/O | MSPI模式：串行指令和地址输出，以及X2，X4模式下的并行数据bit0的输入管脚，连接外部Flash器件的DQ0/D/SI/IO0管脚 |
| MISO | I/O | MSPI模式：X1模式下串行数据输入，X2，X4模式下并行数据bit1的输入管脚，连接外部Flash器件的DQ1/Q/SO/IO1管脚 |
| SDA | I/O | I2C串行数据线；当GowinCONFIG配置模式支持I2C时，需要外上拉 |
| SCL | I | I2C串行时钟线；当GowinCONFIG配置模式支持I2C时，需要外上拉 |
| SO | O | SSPI模式下SO |
| SI | I/O | SSPI模式下SI |
| SSI0 | I/O | SSPI模式下SI |
| SSI1 | O | SSPI模式下SO |
| SSI2 | I/O | QSSPI配置模式：数据输入管脚 |
| SSI3 | I，内部弱下拉 | 在SSPI模式下，高电平有效 在CPU模式下，低电平有效 |
| CSI_B | I | CPU模式：片选信号低有效 Master CPU模式：连接外部配置controller的片选信号，也可以直接接地或者串接1KΩ电阻接地 Slave CPU模式：外部配置controller可以通过控制CSI_B信号选择FPGA Master和Slave模式都是由外部controller发出，其他模式CSI_B信号没有关联 |
| CSO_B | O | 在FPGA级联配置模式(Daisy Chain)用于连接下一级器件 SERIAL模式：输出下一级器件的配置数据 Master SPI模式：输出下一级器件的配置数据 CPU模式：输出下一级器件的片选信号 |
| PUDC_B | I | 配置过程中的弱上拉选择信号管脚： FPGA上电后在配置过程中低电平有效使能内部弱上拉电阻 PUDC_B低电平：除PUDC_B外所有的GPIO弱上拉 PUDC_B高电平：所有GPIO高阻 PUDC_B不允许在配置过程中悬空 |
| RDWR_B | I | CPU模式：数据读写控制信号 RDWR为高电平时，FPGA输出数据；为低电平时，外部控制器将数据写入FPGA Master CPU模式：可以接外部控制器RDWR信号，也可以直接或者串接≤1kΩ电阻器连接到GND。 Slave CPU模式：外部控制器RDWR信号 CPU模式的低8位专用IO在wakeup后会受RDWR状态影响，CPU模式低8位设置复用fuse不受RDWR影响 |
| SSPI_CLK | I/O | SSPI/QSSPI配置模式：时钟输入管脚 |
| SSPI_WPN | I/O | QSSPI配置模式：数据输入管脚 |
| GCLKC_[x] | I | GCLKT_[x]的差分对比输入管脚，C(Comp)，[x]是时钟序号 |

| 管脚名称 | 方向 | 说明 |
|--|---------|---|
| GCLKT_[x] | I | 全局时钟输入管脚，T(True)，[x]时钟序号 |
| GCLKT/C_[x]A | I | GCLKT/C_[x]的默认专用管脚，[x]时钟序号 |
| GCLKT/C_[x]B | I | 可配置成GCLKT/C_[x]的专用管脚，在对应的A未作为GCLK专用管脚时，通过配置实现GCLK管脚功能，[x]时钟序号 |
| CLKHOLD_N | I，内部弱下拉 | 在SSPI模式下，高电平有效 在CPU模式下，低电平有效 |
| DOUT | O | SERIAL模式：数据输出 |
| DIN | I，内部弱下拉 | SERIAL模式：数据输入 |
| TMS | I，内部弱上拉 | JTAG模式：串行模式输入 |
| TCK | I | JTAG模式：串行时钟输入 |
| TDO | O | JTAG模式：串行数据输出 |
| TDI | I，内部弱上拉 | JTAG模式：串行数据输入 |
| RECONFIG_N | I，内部弱上拉 | 全局复位GowinCONFIG逻辑信号，低电平有效 |
| DONE ^[1] | O，内部弱上拉 | 高电平表示成功完成编程配置 低电平表示未完成编程配置或编程配置失败 |
| | I，内部弱上拉 | DONE信号为低电平时，延迟芯片启动，直到DONE信号为高电平 |
| READY ^[1] | O，内部弱上拉 | 高电平表示当前可以对器件进行编程配置 低电平表示无法对器件进行编程配置 |
| | | |
| MCS_N | O | MSPI模式：使能信号MCS_N，低电平有效 |
| SSPI_CS_N | I/O | SSPI模式：使能信号SSPI_CS_N，低电平有效，内部弱上拉 |
| LPLL_C_FB/RPLL_C_FB/ PLL_C_FB/BPLL_C_FB | I | 左边/右边/上边/下边PLL反馈输入管脚，C(Comp) |
| LPLL_T_FB/RPLL_T_FB | I | 左边/右边/上边/下边PLL反馈输入管脚，T(True) |
| LPLL_C_IN/RPLL_C_IN | I | 左边/右边/上边/下边PLL时钟输入管脚，C(Comp) |
| LPLL_T_IN/RPLL_T_IN/ L_T_IN/BPLL_T_IN | I | 左边/右边/上边/下边PLL时钟输入管脚，T(True) |
| MODE2 | I，内部弱下拉 | GowinCONFIG配置模式选择信号端口：若该管脚标记为“VCCIO”，表示该管脚内接电源；若该管脚标记为“GND”，表示该管脚内部接地 |
| MODE1 | I，内部弱下拉 | GowinCONFIG配置模式选择信号端口：若该管脚标记为“VCCIO”，表示该管脚内接电源；若该管脚标记为“GND”，表示该管脚内部接地 |
| MODE0 | I，内部弱下拉 | GowinCONFIG配置模式选择信号端口：若该管脚标记为“VCCIO”，表示该管脚内接电源；若该管脚标记为“GND”，表示该管脚内部接地 |

| 管脚名称 | 方向 | 说明 |
|--|-----|----------------------------------|
| 其他管脚 | | |
| VSS | NA | Ground管脚 |
| VCC | NA | 核电压供电管脚 |
| VCCIO# | NA | I/O BANK#的I/O电压供电管脚 |
| VCCC | NA | Clock tree电压供电管脚 |
| VCCX | NA | 辅助电压供电管脚 |
| VCC_REG ^[2] | NA | Regulator电压供电管脚 |
| VQPS ^[3] | NA | eFuse写入所需电压供电管脚 |
| VCC_EXT | NA | VCC/VCCC Regulator和MIPI LP电压供电管脚 |
| M*_VDD* | NA | MIPI电压供电管脚 |
| NC | NA | 预留未使用 |
| ADCVN | DIO | SENSOR差分模拟信号输入管脚 |
| ADCVP | DIO | SENSOR差分模拟信号输入管脚 |
| M0_CKN | DIO | MIPI_DPHY的时钟通道差分管脚 |
| M0_CKP | DIO | MIPI_DPHY的时钟通道差分管脚 |
| M0_D0N | DIO | MIPI_DPHY的数据通道0差分管脚 |
| M0_D0P | DIO | MIPI_DPHY的数据通道0差分管脚 |
| M0_D1N | DIO | MIPI_DPHY的数据通道1差分管脚 |
| M0_D1P | DIO | MIPI_DPHY的数据通道1差分管脚 |
| M0_D2N | DIO | MIPI_DPHY的数据通道2差分管脚 |
| M0_D2P | DIO | MIPI_DPHY的数据通道2差分管脚 |
| M0_D3N | DIO | MIPI_DPHY的数据通道3差分管脚 |
| M0_D3P | DIO | MIPI_DPHY的数据通道3差分管脚 |
| 注！ | | |
| [1] READY和DONE默认状态为open-drain输出，内部弱上拉。在配置期间，DONE输出0。 | | |
| [2] VCC_REG经过内部LDO产生0.9V，为PLL供电。 | | |
| [3] VQPS为eFuse写入所需的电源，当不需要写eFuse的时候，这个电源可以给GND或floating。 | | |



注!

[1]每个Bank还提供一个独立的参考电压 (VREF)。

[2]用户可选择使用IOB内置的VREF源 (0.6V、0.75V、0.9V、1.25V、1.5V, 以及基于VCCIO的比例电压 (36%,50%,64%))。

[3]用户也可选择外部的VREF输入 (使用Bank中任意一个IO管脚作为外部VREF输入)。

| GW5A-25器件MG121N封装电源供电要求 | | | |
|-------------------------|--------------------------------------|--------|--------|
| 名称 | 描述 | 最小值 | 最大值 |
| VCC | 核电压 | 0.87V | 1V |
| VCCIO4 | I/O Bank电压 | 1.14V | 3.465V |
| VCC/VCCC | 核电压和Clock tree电压内部短接在一起 | 0.87V | 1V |
| VQPS | eFuse写入所需电压 | 1.8V | 1.8V |
| VCC_REG | Regulator电压 | 1.14V | 3.3V |
| M0_VDDA | MIPI M0模拟核电压 | 0.87V | 1V |
| M0_VDDD | MIPI M0数字核电压 | 0.87V | 1V |
| M0_VDD_12/VCC_EXT | MIPI电压M0_VDD_12和VCC_EXT内部短接在一起 | 1.14V | 1.32V |
| M0_VDDX/VCCX | MIPI电压M0_VDDX和辅助电压VCCX内部短接在一起 | 2.375V | 3.465V |
| VCCIO0/VCCIO1 | I/O Bank电压VCCIO0/VCCIO1内部短接在一起 | 1.14V | 3.465V |
| VCCIO10/VCCIO5 | I/O Bank电压VCCIO10/VCCIO5内部短接在一起 | 1.14V | 3.465V |
| VCCIO2/VCCIO3 | I/O Bank电压VCCIO2/VCCIO3内部短接在一起 | 1.14V | 3.465V |
| VCCIO6/VCCIO7 | I/O Bank电压VCCIO6/VCCIO7内部短接在一起 | 1.14V | 3.465V |
| GW5A-25器件UG324S封装电源供电要求 | | | |
| 名称 | 描述 | 最小值 | 最大值 |
| VQPS | eFuse写入所需电压 | 1.62V | 1.98V |
| VCC_REG | Regulator电压 | 1.14V | 3.3V |
| VCC_EXT | VCC_EXT电压 | 1.14V | 1.32V |
| VCCIO10/VCCX | 辅助电压 VCCX 和 I/O Bank电压VCCIO10内部短接在一起 | 2.375V | 3.465V |
| VCCIO0/VCCIO1 | I/O Bank电压VCCIO0/VCCIO1内部短接在一起 | 1.14V | 3.465V |
| VCCIO2/VCCIO3 | I/O Bank电压VCCIO2/VCCIO3内部短接在一起 | 1.14V | 3.465V |
| VCCIO4/VCCIO5 | I/O Bank电压VCCIO4/VCCIO5内部短接在一起 | 1.14V | 3.465V |
| VCCIO6/VCCIO7 | I/O Bank电压VCCIO6/VCCIO7内部短接在一起 | 1.14V | 3.465V |

| GW5A-25器件UG256C/PG256C封装EV版本电源供电要求 | | | |
|---|---|--------|--------|
| 名称 | 描述 | 最小值 | 最大值 |
| VCCIO0 | I/O Bank电压 | 1.14V | 3.465V |
| VCCIO1 | I/O Bank电压 | 1.14V | 3.465V |
| VCCIO2 | I/O Bank电压 | 1.14V | 3.465V |
| VCCIO3 | I/O Bank电压 | 1.14V | 3.465V |
| VCCIO5 | I/O Bank电压 | 1.14V | 3.465V |
| VCCIO6 | I/O Bank电压 | 1.14V | 3.465V |
| VCCIO7 | I/O Bank电压 | 1.14V | 3.465V |
| VCCIO10/VCCIO4 | I/O Bank电压VCCIO10/VCCIO4内部短接在一起 | 1.14V | 3.465V |
| VQPS | eFuse写入所需电压 | 1.62V | 1.98V |
| VCCX | 辅助电压 | 2.375V | 3.465V |
| VCC_REG | Regulator电压 | 1.14V | 3.3V |
| VCC_EXT | VCC/VCCC Regulator和MIPI LP电压 | 1.14V | 1.32V |
| GW5A-25器件UG324封装电源供电要求 | | | |
| 名称 | 描述 | 最小值 | 最大值 |
| VCCIO0/VCCIO1 | I/O Bank电压VCCIO0/VCCIO1内部短接在一起 | 1.14V | 3.465V |
| VCCIO2/VCCIO3 | I/O Bank电压VCCIO2/VCCIO3内部短接在一起 | 1.14V | 3.465V |
| VCCIO4/VCCIO5 | I/O Bank电压VCCIO4/VCCIO5内部短接在一起 | 1.14V | 3.465V |
| VCCIO6/VCCIO7 | I/O Bank电压VCCIO6/VCCIO7内部短接在一起 | 1.14V | 3.465V |
| M0_VDDA/M0_VDDD/VCC/VCCC | MIPI电压M0_VDDA和M0_VDDD、核电压和Clock tree电压内部短接在一起 | 0.87V | 1V |
| M0_VDDX/VCCIO10/VCCX | MIPI电压M0_VDDX、I/O Bank电压VCCIO10和辅助电压VCCX内部短接在一起 | 2.375V | 3.465V |
| VCC_REG | Regulator电压 | 1.14V | 3.3V |
| M0_VDD_12 | MIPI电压M0_VDD_12 | 1.14V | 1.32V |
| VCC_EXT | MIPI LP电压 | 1.14V | 1.32V |
| VQPS | eFuse写入所需电压 | 1.62V | 1.98V |
| GW5A-25器件MG196S/UG225S封装EV版本电源供电要求 | | | |
| 名称 | 描述 | 最小值 | 最大值 |
| VCCIO0、VCCIO1、VCCIO2、VCCIO3、VCCIO4、VCCIO5、VCCIO6、VCCIO7 | I/O Bank电压 | 1.14V | 3.465V |
| VCCIO10/VCCX | I/O Bank电压VCCIO10和辅助电压VCCX内部短接在一起 | 2.375V | 3.465V |
| VCC_REG | Regulator电压 | 1.14V | 3.3V |
| VCC_EXT | VCC/VCCC Regulator和MIPI LP电压 | 1.14V | 1.32V |
| VQPS | eFuse写入所需电压 | 1.62V | 1.98V |

| GW5A-25器件MG196S/UG225S封装LV版本电源供电要求 | | | |
|---|--|--------|--------|
| 名称 | 描述 | 最小值 | 最大值 |
| VCCIO0、VCCIO1、VCCIO2、VCCIO3、VCCIO4、VCCIO5、VCCIO6、VCCIO7 | I/O Bank电压 | 1.14V | 3.465V |
| VCCIO10/VCCX | I/O Bank电压VCCIO10和辅助电压VCCX内部短接在一起 | 2.375V | 3.465V |
| VCC_REG | Regulator电压 | 1.14V | 3.3V |
| VCC/VCCC | 核电压和Clock tree电压内部短接在一起 | 0.87V | 1V |
| VQPS | eFuse写入所需电压 | 1.62V | 1.98V |
| GW5A-25器件LQ100封装EV版本电源供电要求 | | | |
| 名称 | 描述 | 最小值 | 最大值 |
| VCCIO1、VCCIO2、VCCIO6、VCCIO7 | I/O Bank电压 | 1.14V | 3.465V |
| VCCIO3/VCCIO4/VCCIO5 | I/O Bank电压VCCIO3/VCCIO4/VCCIO5内部短接在一起 | 1.14V | 3.465V |
| VCCIO10/VCCX | I/O Bank电压VCCIO10和辅助电压VCCX内部短接在一起 | 2.375V | 3.465V |
| VCC_EXT/VCC_REG/VCCIO0 | VCC/VCCC Regulator和MIPI LP电压、Regulator电压、I/O Bank电压VCCIO0内部短接在一起 | 1.14V | 1.32V |
| GW5A-25器件PG256S封装EV版本电源供电要求 | | | |
| 名称 | 描述 | 最小值 | 最大值 |
| VCCIO0、VCCIO1、VCCIO2、VCCIO3、VCCIO4、VCCIO5、VCCIO6、VCCIO7 | I/O Bank电压 | 1.14V | 3.465V |
| VCCIO10/VCCX | I/O Bank电压VCCIO10和辅助电压VCCX内部短接在一起 | 2.375V | 3.465V |
| VCC_REG | Regulator电压 | 1.14V | 3.3V |
| VCC_EXT | VCC/VCCC Regulator和MIPI LP电压 | 1.14V | 1.32V |
| VQPS | eFuse写入所需电压 | 1.62V | 1.98V |
| GW5A-25器件PG256封装EV版本电源供电要求 | | | |
| 名称 | 描述 | 最小值 | 最大值 |
| VCCIO0、VCCIO1、VCCIO2、VCCIO3、VCCIO4、VCCIO5、VCCIO6、VCCIO7 | I/O Bank电压 | 1.14V | 3.465V |
| M0_VDDX/VCC_REG/VCCIO10/VCCX | MIPI电压M0_VDDX、Regulator电压、I/O Bank电压VCCIO10和辅助电压VCCX内部短接在一起 | 2.375V | 3.3V |
| M0_VDDA/M0_VDDD | MIPI电压M0_VDDA和M0_VDDD内部短接在一起 | 0.87V | 1V |
| M0_VDD_12 | MIPI电压M0_VDD_12 | 1.14V | 1.32V |
| VQPS | eFuse写入所需电压 | 1.62V | 1.98V |
| VCC/VCCC | 核电压和Clock tree电压内部短接在一起 | 0.87V | 1V |

注!

[1]有封装管脚的短接IO，用户可忽略。

[2]该管脚内部接地。

[3]该管脚内接VCCIO。

| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | MG121N |
|--------------------------------------|-----|------|------|-------------------------------|----------------|------|------|------------------------|
| IOB10A/D03/SSPI_CN | I/O | 5 | none | D03/SSPI_CS_N | True_of_IOB10B | True | x16 | B1_B10A ^[1] |
| IOB10B/D04/SI/SSI0 | I/O | 5 | none | D04/SI/SSI0 | Comp_of_IOB10A | True | x16 | A3_B10B ^[1] |
| IOB12A/GCLKT_10B/D07/SSPI_WP/SSPI2 | I/O | 5 | none | GCLKT_10B/D07/SSPI_WP/SSPI2 | True_of_IOB12B | True | x16 | E2 |
| IOB12B/GCLKC_10B/RDWR_B/LP/LL1_C_IN1 | I/O | 5 | none | GCLKC_10B/RDWR_B/LP/LL1_C_IN1 | Comp_of_IOB12A | True | x16 | E1 |
| IOB14A/SSPI_CLK | I/O | 5 | none | SSPI_CLK | True_of_IOB14B | True | x16 | C1_B14A ^[1] |
| IOB14B/CLKHOLD_N/SSI3 | I/O | 5 | none | CLKHOLD_N/SSI3 | Comp_of_IOB14A | True | x16 | D1 |
| IOB1A/RECONFIGN | I/O | 5 | none | RECONFIGN | | none | none | D8 |
| IOB24A | I/O | 5 | none | | True_of_IOB24B | True | x16 | A1 |
| IOB26A/GCLKT_9B | I/O | 5 | none | GCLKT_9B | True_of_IOB26B | True | x16 | F2 |
| IOB26B/GCLKC_9B | I/O | 5 | none | GCLKC_9B | Comp_of_IOB26A | True | x16 | F1 |
| IOB37A/READY | I/O | 4 | none | READY | True_of_IOB37B | True | x16 | E8 |
| IOB37B/MCS_N/CSO_B | I/O | 4 | none | MCS_N/CSO_B | Comp_of_IOB37A | True | x16 | E6 |
| IOB4A/D08/SDA | I/O | 5 | none | D08/SDA | True_of_IOB4B | True | x16 | B2 |
| IOB4B/D09/SCL/LPLL1_C_FB0 | I/O | 5 | none | D09/SCL/LPLL1_C_FB0 | Comp_of_IOB4A | True | x16 | C2 |
| IOB52A/MODE1 | I/O | 4 | none | MODE1 | True_of_IOB52B | True | x16 | GND ^[2] |
| IOB54A/GCLKT_11B/D01/MI2 | I/O | 4 | none | GCLKT_11B/D01/MI2 | True_of_IOB54B | True | x16 | D5 |
| IOB54B/GCLKC_11B/D02/MI3/BPLL_C_FB1 | I/O | 4 | none | GCLKC_11B/D02/MI3/BPLL_C_FB1 | Comp_of_IOB54A | True | x16 | E4 |
| IOB56A | I/O | 4 | none | | True_of_IOB56B | True | x16 | B3 |
| IOB56B | I/O | 4 | none | | Comp_of_IOB56A | True | x16 | C3 |
| IOB58A/D00/MISO/MI1/DIN | I/O | 4 | none | D00/MISO/MI1/DIN | True_of_IOB58B | True | x16 | E5 |
| IOB58B/MOSI/CSI_B/MI0 | I/O | 4 | none | MOSI/CSI_B/MI0 | Comp_of_IOB58A | True | x16 | D6 |
| IOB60A | I/O | 4 | none | | True_of_IOB60B | True | x16 | E3 |
| IOB62A/CCLK | I/O | 4 | none | CCLK | True_of_IOB62B | True | x16 | E7 |
| IOB62B/MODE0 | I/O | 4 | none | MODE0 | Comp_of_IOB62A | True | x16 | VCCIO ^[3] |
| IOB64A/DONE | I/O | 4 | none | DONE | | none | none | D7 |
| IOB89A/GCLKT_7/BPLL_T_IN0 | I/O | 3 | DQ4 | GCLKT_7/BPLL_T_IN0 | True_of_IOB89B | True | x16 | G4 |

注!

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[2]该管脚内部接地。

[3]该管脚内接VCCIO。

| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | MG121N |
|-----------------------------|-----|------|----------------|-----------------------|----------------|------|------|-----------------------|
| IOB89B/GCLKC_7 | I/O | 3 | DQ4 | GCLKC_7 | Comp_of_IOB89A | True | x16 | H4 |
| IOB8A/D05/SO/SSI1 | I/O | 5 | none | D05/SO/SSI1 | True_of_IOB8B | True | x16 | A2_B8A ^[1] |
| IOB91A/GCLKT_6A | I/O | 3 | DQ4 | GCLKT_6A | True_of_IOB91B | True | x16 | H1 |
| IOB91B/GCLKC_6A | I/O | 3 | DQ4 | GCLKC_6A | Comp_of_IOB91A | True | x16 | H2 |
| IOL12A | I/O | 6 | DQ7 | | True_of_IOL12B | True | x16 | B11 |
| IOL12B | I/O | 6 | DQ7 | | Comp_of_IOL12A | True | x16 | B10 |
| IOL14A/LPLL1_T_IN0 | I/O | 6 | DQ7 | LPLL1_T_IN0 | True_of_IOL14B | True | x16 | A11 |
| IOL14B | I/O | 6 | DQ7 | | Comp_of_IOL14A | True | x16 | A10 |
| IOL3A/GCLKT_14A/LPLL0_T_IN2 | I/O | 6 | DQ7 | GCLKT_14A/LPLL0_T_IN2 | True_of_IOL3B | True | x16 | E11 |
| IOL3B/GCLKC_14/LPLL0_C_FB0 | I/O | 6 | DQ7 | GCLKC_14/LPLL0_C_FB0 | Comp_of_IOL3A | True | x16 | E10 |
| IOL5A/GCLKT_13/LPLL0_T_IN1 | I/O | 6 | DQ7 | GCLKT_13/LPLL0_T_IN1 | True_of_IOL5B | True | x16 | C11 |
| IOL5B/GCLKC_13/LPLL0_C_FB1 | I/O | 6 | DQ7 | GCLKC_13/LPLL0_C_FB1 | Comp_of_IOL5A | True | x16 | C10 |
| IOL9A | I/O | 6 | DQS7/DQ7 | | True_of_IOL9B | True | x16 | D11 |
| IOL9B | I/O | 6 | DQS7/DQ7 | | Comp_of_IOL9A | True | x16 | D10 |
| IOR18A | I/O | 2 | DQ2/DQS_2 3 | | True_of_IOR18B | True | x16 | L2 |
| IOR18B | I/O | 2 | DQ2/DQS_2 3 | | Comp_of_IOR18A | True | x16 | L1 |
| IOR1A/TCK | I/O | 10 | none | TCK | | none | none | C1 |
| IOR1B/TDI | I/O | 10 | none | TDI | | none | none | A3 |
| IOR20A | I/O | 2 | DQ3 | | True_of_IOR20B | True | x16 | K1 |
| IOR20B | I/O | 2 | DQ3 | | Comp_of_IOR20A | True | x16 | K2 |
| IOR22A | I/O | 2 | DQ3 | | True_of_IOR22B | True | x16 | J4 |
| IOR22B | I/O | 2 | DQ3 | | Comp_of_IOR22A | True | x16 | K4 |
| IOR24A | I/O | 2 | DQ3 | | True_of_IOR24B | True | x16 | G2 |
| IOR24B | I/O | 2 | DQ3 | | Comp_of_IOR24A | True | x16 | G1 |
| IOR31A/GCLKT_4/RPLL1_T_IN0 | I/O | 2 | DQ3 | GCLKT_4/RPLL1_T_IN0 | True_of_IOR31B | True | x16 | L4 |
| IOR31B/GCLKC_4/RPLL1_C_FB1 | I/O | 2 | DQ3 | GCLKC_4/RPLL1_C_FB1 | Comp_of_IOR31A | True | x16 | L3 |
| IOR33A/GCLKT_5/RPLL1_T_IN1 | I/O | 2 | none | GCLKT_5/RPLL1_T_IN1 | True_of_IOR33B | True | x16 | J1 |
| IOR33B/GCLKC_5/RPLL1_C_FB0 | I/O | 2 | none | GCLKC_5/RPLL1_C_FB0 | Comp_of_IOR33A | True | x16 | J2 |

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[2]该管脚内部接地。
[3]该管脚内接VCCIO。

| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | MG121N |
|----------------------------|-----|------|----------|----------------------|----------------|------|------|--------|
| IOR3A/TMS | I/O | 10 | none | TMS | | none | none | B1 |
| IOR3B/TDO | I/O | 10 | none | TDO | | none | none | A2 |
| IOT11A | I/O | 7 | none | | True_of_IOT11B | True | x16 | K11 |
| IOT11B | I/O | 7 | none | | Comp_of_IOT11A | True | x16 | L11 |
| IOT15A | I/O | 7 | none | | True_of_IOT15B | True | x16 | L10 |
| IOT15B | I/O | 7 | none | | Comp_of_IOT15A | True | x16 | K10 |
| IOT19A | I/O | 7 | none | | True_of_IOT19B | True | x16 | L7 |
| IOT19B | I/O | 7 | none | | Comp_of_IOT19A | True | x16 | L8 |
| IOT1A/GCLKT_15/LPLL0_T_IN0 | I/O | 7 | none | GCLKT_15/LPLL0_T_IN0 | True_of_IOT1B | True | x16 | J11 |
| IOT1B/GCLKC_15 | I/O | 7 | none | GCLKC_15 | Comp_of_IOT1A | True | x16 | J10 |
| IOT21A | I/O | 7 | none | | True_of_IOT21B | True | x16 | K7 |
| IOT21B | I/O | 7 | none | | Comp_of_IOT21A | True | x16 | J7 |
| IOT23A | I/O | 7 | none | | True_of_IOT23B | True | x16 | L6 |
| IOT23B | I/O | 7 | none | | Comp_of_IOT23A | True | x16 | K6 |
| IOT31A | I/O | 0 | none | | True_of_IOT31B | True | x16 | L9 |
| IOT31B | I/O | 0 | none | | Comp_of_IOT31A | True | x16 | K9 |
| IOT3A/GCLKT_16 | I/O | 7 | none | GCLKT_16 | True_of_IOT3B | True | x16 | H11 |
| IOT3B/GCLKC_16 | I/O | 7 | none | GCLKC_16 | Comp_of_IOT3A | True | x16 | H10 |
| IOT56A/GCLKT_0/TPLL_T_IN1 | I/O | 0 | none | GCLKT_0/TPLL_T_IN1 | True_of_IOT56B | True | x16 | J8 |
| IOT56B/GCLKC_0/TPLL_C_FB1 | I/O | 0 | none | GCLKC_0/TPLL_C_FB1 | Comp_of_IOT56A | True | x16 | K8 |
| IOT58A/GCLKT_1/TPLL_T_IN2 | I/O | 0 | none | GCLKT_1/TPLL_T_IN2 | True_of_IOT58B | True | x16 | F7 |
| IOT58B/GCLKC_1/TPLL_C_FB0 | I/O | 0 | none | GCLKC_1/TPLL_C_FB0 | Comp_of_IOT58A | True | x16 | F6 |
| IOT61A/GCLKT_2/TPLL_T_IN0 | I/O | 1 | DQS0/DQ0 | GCLKT_2/TPLL_T_IN0 | True_of_IOT61B | True | x16 | H5 |
| IOT61B/GCLKC_2 | I/O | 1 | DQS0/DQ0 | GCLKC_2 | Comp_of_IOT61A | True | x16 | J5 |
| IOT63A/GCLKT_3/RPLL0_T_IN0 | I/O | 1 | DQ0 | GCLKT_3/RPLL0_T_IN0 | True_of_IOT63B | True | x16 | L5 |
| IOT63B/GCLKC_3 | I/O | 1 | DQ0 | GCLKC_3 | Comp_of_IOT63A | True | x16 | K5 |
| IOT66A | I/O | 1 | DQ0 | | True_of_IOT66B | True | x16 | H8 |
| IOT66B | I/O | 1 | DQ0 | | Comp_of_IOT66A | True | x16 | H7 |
| IOT68A | I/O | 1 | DQ0 | | True_of_IOT68B | True | x16 | G7 |
| IOT68B | I/O | 1 | DQ0 | | Comp_of_IOT68A | True | x16 | G8 |

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[2]该管脚内部接地。
[3]该管脚内接VCCIO。

| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | MG121N |
|-------------------|-------|------|------|------|----------------|------|------|--------|
| IOT72A | I/O | 1 | DQ0 | | True_of_IOT72B | True | x16 | F5 |
| IOT72B | I/O | 1 | DQ0 | | Comp_of_IOT72A | True | x16 | G5 |
| IOT7A | I/O | 7 | none | | True_of_IOT7B | True | x16 | G11 |
| IOT7B | I/O | 7 | none | | Comp_of_IOT7A | True | x16 | G10 |
| M0_CKN | DIO | MIPI | none | | | none | none | B7 |
| M0_CKP | DIO | MIPI | none | | | none | none | A7 |
| M0_D0N | DIO | MIPI | none | | | none | none | B9 |
| M0_D0P | DIO | MIPI | none | | | none | none | A9 |
| M0_D1N | DIO | MIPI | none | | | none | none | B8 |
| M0_D1P | DIO | MIPI | none | | | none | none | A8 |
| M0_D2N | DIO | MIPI | none | | | none | none | B6 |
| M0_D2P | DIO | MIPI | none | | | none | none | A6 |
| M0_D3N | DIO | MIPI | none | | | none | none | B5 |
| M0_D3P | DIO | MIPI | none | | | none | none | A5 |
| M0_VDD_12/VCC_EXT | Power | N/A | | | | | | K3 |
| M0_VDDA | Power | N/A | | | | | | C8 |
| M0_VDDD | Power | N/A | | | | | | D9 |
| M0_VDDX/VCCX | Power | N/A | | | | | | H3 |
| M0_VDDX/VCCX | Power | N/A | | | | | | G6 |
| M0_VDDX/VCCX | Power | N/A | | | | | | G3 |
| M0_VDDX/VCCX | Power | N/A | | | | | | G9 |
| NC | N/A | N/A | | | | | | C4 |
| NC | N/A | N/A | | | | | | C6 |
| VCC/VCCC | Power | N/A | | | | | | F8 |
| VCC/VCCC | Power | N/A | | | | | | F4 |
| VCC/VCCC | Power | N/A | | | | | | E9 |
| VCC_REG | Power | N/A | | | | | | J6 |
| VCCIO4 | Power | N/A | | | | | | D4 |
| VCCIO0/VCCIO1 | Power | N/A | | | | | | J9 |
| VCCIO10/VCCIO5 | Power | N/A | | | | | | D2 |

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[2]该管脚内部接地。
[3]该管脚内接VCCIO。

| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | MG121N |
|---------------|--------|------|-----|------|--------|------|-----|--------|
| VCCIO2/VCCIO3 | Power | N/A | | | | | | A4 |
| VCCIO6/VCCIO7 | Power | N/A | | | | | | F10 |
| VQPS | Power | N/A | | | | | | D3 |
| VSS | Ground | N/A | | | | | | B4 |
| VSS | Ground | N/A | | | | | | C5 |
| VSS | Ground | N/A | | | | | | C7 |
| VSS | Ground | N/A | | | | | | C9 |
| VSS | Ground | N/A | | | | | | F11 |
| VSS | Ground | N/A | | | | | | F3 |
| VSS | Ground | N/A | | | | | | F9 |
| VSS | Ground | N/A | | | | | | H6 |
| VSS | Ground | N/A | | | | | | H9 |
| VSS | Ground | N/A | | | | | | J3 |

| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | UG324S |
|---|-----|------|------|----------------------------------|----------------|------|------|--------|
| IOB10A/D03/SSPI_CN | I/O | 5 | none | D03/SSPI_CS_N | True_of_IOB10B | True | x16 | U5 |
| IOB10B/D04/SI/SSI0 | I/O | 5 | none | D04/SI/SSI0 | Comp_of_IOB10A | True | x16 | V5 |
| IOB12A/GCLKT_10B/D07/SSPI_W PN/SSI2 | I/O | 5 | none | GCLKT_10B/D07/SSPI_W PN/SSI2 | True_of_IOB12B | True | x16 | R5 |
| IOB12B/GCLKC_10B/RDWR_B/LP LL1_C_IN1 | I/O | 5 | none | GCLKC_10B/RDWR_B/LP LL1_C_IN1 | Comp_of_IOB12A | True | x16 | T5 |
| IOB14A/SSPI_CLK | I/O | 5 | none | SSPI_CLK | True_of_IOB14B | True | x16 | N6 |
| IOB14B/CLKHOLD_N/SSI3 | I/O | 5 | none | CLKHOLD_N/SSI3 | Comp_of_IOB14A | True | x16 | P7 |
| IOB16A | I/O | 5 | none | | True_of_IOB16B | True | x16 | T6 |
| IOB16B | I/O | 5 | none | | Comp_of_IOB16A | True | x16 | V6 |
| IOB18A | I/O | 5 | none | | True_of_IOB18B | True | x16 | N7 |
| IOB18B | I/O | 5 | none | | Comp_of_IOB18A | True | x16 | P8 |
| IOB1A/RECONFIGN | I/O | 5 | none | RECONFIGN | | none | none | V2 |
| IOB20A | I/O | 5 | none | | True_of_IOB20B | True | x16 | U7 |
| IOB20B | I/O | 5 | none | | Comp_of_IOB20A | True | x16 | V7 |
| IOB22A | I/O | 5 | none | | True_of_IOB22B | True | x16 | U8 |
| IOB22B | I/O | 5 | none | | Comp_of_IOB22A | True | x16 | V8 |
| IOB24A | I/O | 5 | none | | True_of_IOB24B | True | x16 | M8 |
| IOB24B | I/O | 5 | none | | Comp_of_IOB24A | True | x16 | N8 |
| IOB26A/GCLKT_9B | I/O | 5 | none | GCLKT_9B | True_of_IOB26B | True | x16 | M10 |
| IOB26B/GCLKC_9B | I/O | 5 | none | GCLKC_9B | Comp_of_IOB26A | True | x16 | N9 |
| IOB29A/GCLKT_11A | I/O | 4 | none | GCLKT_11A | True_of_IOB29B | True | x16 | T9 |
| IOB29B/GCLKC_11A | I/O | 4 | none | GCLKC_11A | Comp_of_IOB29A | True | x16 | V9 |
| IOB2A | I/O | 5 | none | | True_of_IOB2B | True | x16 | T4 |
| IOB2B | I/O | 5 | none | | Comp_of_IOB2A | True | x16 | V4 |
| IOB31A/GCLKT_10A/D14 | I/O | 4 | none | GCLKT_10A/D14 | True_of_IOB31B | True | x16 | R8 |
| IOB31B/GCLKC_10A/D15/BPLL_C_ _FB0 | I/O | 4 | none | GCLKC_10A/D15/BPLL_C_ _FB0 | Comp_of_IOB31A | True | x16 | T8 |
| IOB33A/GCLKT_9A/D13/BPLL_T_I N1 | I/O | 4 | none | GCLKT_9A/D13/BPLL_T_I N1 | True_of_IOB33B | True | x16 | U10 |
| IOB33B/GCLKC_9A/EMCCLK | I/O | 4 | none | GCLKC_9A/EMCCLK | Comp_of_IOB33A | True | x16 | V10 |
| IOB35A/GCLKT_8 | I/O | 4 | none | GCLKT_8 | True_of_IOB35B | True | x16 | R10 |
| IOB35B/GCLKC_8 | I/O | 4 | none | GCLKC_8 | Comp_of_IOB35A | True | x16 | T10 |
| IOB37A/READY | I/O | 4 | none | READY | True_of_IOB37B | True | x16 | U3 |

| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | UG324S |
|-------------------------------------|-----|------|------|------------------------------|----------------|------|------|--------|
| IOB37B/MCS_N/CSO_B | I/O | 4 | none | MCS_N/CSO_B | Comp_of_IOB37A | True | x16 | V3 |
| IOB39A | I/O | 4 | none | | True_of_IOB39B | True | x16 | U11 |
| IOB39B | I/O | 4 | none | | Comp_of_IOB39A | True | x16 | V11 |
| IOB41A | I/O | 4 | none | | True_of_IOB41B | True | x16 | N10 |
| IOB41B | I/O | 4 | none | | Comp_of_IOB41A | True | x16 | P11 |
| IOB43A | I/O | 4 | none | | True_of_IOB43B | True | x16 | T12 |
| IOB43B | I/O | 4 | none | | Comp_of_IOB43A | True | x16 | V12 |
| IOB45A | I/O | 4 | none | | True_of_IOB45B | True | x16 | R11 |
| IOB45B | I/O | 4 | none | | Comp_of_IOB45A | True | x16 | T11 |
| IOB48A | I/O | 4 | none | | True_of_IOB48B | True | x16 | M11 |
| IOB48B | I/O | 4 | none | | Comp_of_IOB48A | True | x16 | N11 |
| IOB4A/D08/SDA | I/O | 5 | none | D08/SDA | True_of_IOB4B | True | x16 | N5 |
| IOB4B/D09/SCL/LPLL1_C_FB0 | I/O | 5 | none | D09/SCL/LPLL1_C_FB0 | Comp_of_IOB4A | True | x16 | P6 |
| IOB50A/D11 | I/O | 4 | none | D11 | True_of_IOB50B | True | x16 | U13 |
| IOB50B/D12 | I/O | 4 | none | D12 | Comp_of_IOB50A | True | x16 | V13 |
| IOB52A/MODE1 | I/O | 4 | none | MODE1 | True_of_IOB52B | True | x16 | N12 |
| IOB52B/D10 | I/O | 4 | none | D10 | Comp_of_IOB52A | True | x16 | P12 |
| IOB54A/GCLKT_11B/D01/MI2 | I/O | 4 | none | GCLKT_11B/D01/MI2 | True_of_IOB54B | True | x16 | T14 |
| IOB54B/GCLKC_11B/D02/MI3/BPLL_C_FB1 | I/O | 4 | none | GCLKC_11B/D02/MI3/BPLL_C_FB1 | Comp_of_IOB54A | True | x16 | V14 |
| IOB56A | I/O | 4 | none | | True_of_IOB56B | True | x16 | U15 |
| IOB56B | I/O | 4 | none | | Comp_of_IOB56A | True | x16 | V15 |
| IOB58A/D00/MISO/MI1/DIN | I/O | 4 | none | D00/MISO/MI1/DIN | True_of_IOB58B | True | x16 | R13 |
| IOB58B/MOSI/CSI_B/MI0 | I/O | 4 | none | MOSI/CSI_B/MI0 | Comp_of_IOB58A | True | x16 | T13 |
| IOB60A | I/O | 4 | none | | True_of_IOB60B | True | x16 | U16 |
| IOB60B | I/O | 4 | none | | Comp_of_IOB60A | True | x16 | V16 |
| IOB62A/CCLK | I/O | 4 | none | CCLK | True_of_IOB62B | True | x16 | R15 |
| IOB62B/MODE0 | I/O | 4 | none | MODE0 | Comp_of_IOB62A | True | x16 | T15 |
| IOB64A/DONE | I/O | 4 | none | DONE | | none | none | V17 |
| IOB65A | I/O | 3 | none | | True_of_IOB65B | True | x16 | P15 |
| IOB65B/DOUT | I/O | 3 | none | DOUT | Comp_of_IOB65A | True | x16 | P16 |
| IOB67A | I/O | 3 | none | | True_of_IOB67B | True | x16 | L14 |
| IOB67B | I/O | 3 | none | | Comp_of_IOB67A | True | x16 | M13 |
| IOB69A | I/O | 3 | DQ5 | | True_of_IOB69B | True | x16 | M14 |

| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | UG324S |
|---------------------------|-----|------|------------|--------------------|----------------|------|-----|--------|
| I0B69B | I/O | 3 | DQ5 | | Comp_of_I0B69A | True | x16 | N14 |
| I0B6A | I/O | 5 | none | | True_of_I0B6B | True | x16 | R7 |
| I0B6B | I/O | 5 | none | | Comp_of_I0B6A | True | x16 | T7 |
| I0B71A | I/O | 3 | DQ5 | | True_of_I0B71B | True | x16 | U17 |
| I0B71B | I/O | 3 | DQ5 | | Comp_of_I0B71A | True | x16 | U18 |
| I0B73A | I/O | 3 | DQ5 | | True_of_I0B73B | True | x16 | T17 |
| I0B73B | I/O | 3 | DQ5 | | Comp_of_I0B73A | True | x16 | T18 |
| I0B75A/GCLKT_6B | I/O | 3 | DQS5/DQ5 | GCLKT_6B | True_of_I0B75B | True | x16 | N15 |
| I0B75B/GCLKC_6B | I/O | 3 | DQS5/DQ5 | GCLKC_6B | Comp_of_I0B75A | True | x16 | N16 |
| I0B77A | I/O | 3 | DQ5 | | True_of_I0B77B | True | x16 | P17 |
| I0B77B | I/O | 3 | DQ5 | | Comp_of_I0B77A | True | x16 | P18 |
| I0B79A | I/O | 3 | DQ5/DQS_45 | | True_of_I0B79B | True | x16 | N17 |
| I0B79B | I/O | 3 | DQ5/DQS_45 | | Comp_of_I0B79A | True | x16 | N18 |
| I0B81A | I/O | 3 | DQ4 | | True_of_I0B81B | True | x16 | M16 |
| I0B81B | I/O | 3 | DQ4 | | Comp_of_I0B81A | True | x16 | M18 |
| I0B83A | I/O | 3 | DQ4 | | True_of_I0B83B | True | x16 | L17 |
| I0B83B | I/O | 3 | DQ4 | | Comp_of_I0B83A | True | x16 | L18 |
| I0B85A | I/O | 3 | DQS4/DQ4 | | True_of_I0B85B | True | x16 | K17 |
| I0B85B | I/O | 3 | DQS4/DQ4 | | Comp_of_I0B85A | True | x16 | K18 |
| I0B87A | I/O | 3 | DQ4 | | True_of_I0B87B | True | x16 | J16 |
| I0B87B | I/O | 3 | DQ4 | | Comp_of_I0B87A | True | x16 | J18 |
| I0B89A/GCLKT_7/BPLL_T_IN0 | I/O | 3 | DQ4 | GCLKT_7/BPLL_T_IN0 | True_of_I0B89B | True | x16 | H17 |
| I0B89B/GCLKC_7 | I/O | 3 | DQ4 | GCLKC_7 | Comp_of_I0B89A | True | x16 | H18 |
| I0B8A/D05/SO/SSI1 | I/O | 5 | none | D05/SO/SSI1 | True_of_I0B8B | True | x16 | R3 |
| I0B8B/D06 | I/O | 5 | none | D06 | Comp_of_I0B8A | True | x16 | T3 |
| I0B91A/GCLKT_6A | I/O | 3 | DQ4 | GCLKT_6A | True_of_I0B91B | True | x16 | L15 |
| I0B91B/GCLKC_6A | I/O | 3 | DQ4 | GCLKC_6A | Comp_of_I0B91A | True | x16 | L16 |
| I0L12A | I/O | 6 | DQ7 | | True_of_I0L12B | True | x16 | K2 |
| I0L12B | I/O | 6 | DQ7 | | Comp_of_I0L12A | True | x16 | K1 |
| I0L14A/LPLL1_T_IN0 | I/O | 6 | DQ7 | LPLL1_T_IN0 | True_of_I0L14B | True | x16 | L2 |
| I0L14B | I/O | 6 | DQ7 | | Comp_of_I0L14A | True | x16 | L1 |

| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | UG324S |
|-----------------------------|-----|------|------------|-----------------------|----------------|------|------|--------|
| IOL16A | I/O | 6 | DQ6/DQS_67 | | True_of_IOL16B | True | x16 | M3 |
| IOL16B | I/O | 6 | DQ6/DQS_67 | | Comp_of_IOL16A | True | x16 | M1 |
| IOL18A | I/O | 6 | DQ6 | | True_of_IOL18B | True | x16 | N2 |
| IOL18B | I/O | 6 | DQ6 | | Comp_of_IOL18A | True | x16 | N1 |
| IOL21A | I/O | 6 | DQS6/DQ6 | | True_of_IOL21B | True | x16 | P2 |
| IOL21B | I/O | 6 | DQS6/DQ6 | | Comp_of_IOL21A | True | x16 | P1 |
| IOL23A | I/O | 6 | DQ6 | | True_of_IOL23B | True | x16 | T2 |
| IOL23B | I/O | 6 | DQ6 | | Comp_of_IOL23A | True | x16 | T1 |
| IOL25A | I/O | 6 | DQ6 | | True_of_IOL25B | True | x16 | U2 |
| IOL25B | I/O | 6 | DQ6 | | Comp_of_IOL25A | True | x16 | U1 |
| IOL27A | I/O | 6 | DQ6 | | True_of_IOL27B | True | x16 | L6 |
| IOL27B | I/O | 6 | DQ6 | | Comp_of_IOL27A | True | x16 | M5 |
| IOL29A | I/O | 6 | none | | True_of_IOL29B | True | x16 | N4 |
| IOL29B | I/O | 6 | none | | Comp_of_IOL29A | True | x16 | N3 |
| IOL31A | I/O | 6 | none | | True_of_IOL31B | True | x16 | P4 |
| IOL31B | I/O | 6 | none | | Comp_of_IOL31A | True | x16 | P3 |
| IOL3A/GCLKT_14A/LPLL0_T_IN2 | I/O | 6 | DQ7 | GCLKT_14A/LPLL0_T_IN2 | True_of_IOL3B | True | x16 | H2 |
| IOL3B/GCLKC_14/LPLL0_C_FB0 | I/O | 6 | DQ7 | GCLKC_14/LPLL0_C_FB0 | Comp_of_IOL3A | True | x16 | H1 |
| IOL5A/GCLKT_13/LPLL0_T_IN1 | I/O | 6 | DQ7 | GCLKT_13/LPLL0_T_IN1 | True_of_IOL5B | True | x16 | K4 |
| IOL5B/GCLKC_13/LPLL0_C_FB1 | I/O | 6 | DQ7 | GCLKC_13/LPLL0_C_FB1 | Comp_of_IOL5A | True | x16 | K3 |
| IOL7A | I/O | 6 | DQ7 | | True_of_IOL7B | True | x16 | J3 |
| IOL7B | I/O | 6 | DQ7 | | Comp_of_IOL7A | True | x16 | J1 |
| IOL9A | I/O | 6 | DQS7/DQ7 | | True_of_IOL9B | True | x16 | L4 |
| IOL9B | I/O | 6 | DQS7/DQ7 | | Comp_of_IOL9A | True | x16 | L3 |
| IOR12A | I/O | 2 | DQS2/DQ2 | | True_of_IOR12B | True | x16 | D17 |
| IOR12B | I/O | 2 | DQS2/DQ2 | | Comp_of_IOR12A | True | x16 | D18 |
| IOR14A | I/O | 2 | DQ2 | | True_of_IOR14B | True | x16 | F15 |
| IOR14B | I/O | 2 | DQ2 | | Comp_of_IOR14A | True | x16 | F16 |
| IOR16A | I/O | 2 | DQ2 | | True_of_IOR16B | True | x16 | E16 |
| IOR16B | I/O | 2 | DQ2 | | Comp_of_IOR16A | True | x16 | E18 |
| IOR18A | I/O | 2 | DQ2/DQS_23 | | True_of_IOR18B | True | x16 | H13 |
| IOR18B | I/O | 2 | DQ2/DQS_23 | | Comp_of_IOR18A | True | x16 | H14 |
| IOR1A/TCK | I/O | 10 | none | TCK | | none | none | A17 |
| IOR1B/TDI | I/O | 10 | none | TDI | | none | none | D15 |

| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | UG324S |
|----------------------------|-----|------|----------|----------------------|----------------|------|------|--------|
| IOR20A | I/O | 2 | DQ3 | | True_of_IOR20B | True | x16 | F17 |
| IOR20B | I/O | 2 | DQ3 | | Comp_of_IOR20A | True | x16 | F18 |
| IOR22A | I/O | 2 | DQ3 | | True_of_IOR22B | True | x16 | G16 |
| IOR22B | I/O | 2 | DQ3 | | Comp_of_IOR22A | True | x16 | G18 |
| IOR24A | I/O | 2 | DQ3 | | True_of_IOR24B | True | x16 | H15 |
| IOR24B | I/O | 2 | DQ3 | | Comp_of_IOR24A | True | x16 | H16 |
| IOR26A | I/O | 2 | DQS3/DQ3 | | True_of_IOR26B | True | x16 | J13 |
| IOR26B | I/O | 2 | DQS3/DQ3 | | Comp_of_IOR26A | True | x16 | K14 |
| IOR29A | I/O | 2 | DQ3 | | True_of_IOR29B | True | x16 | K12 |
| IOR29B | I/O | 2 | DQ3 | | Comp_of_IOR29A | True | x16 | K13 |
| IOR31A/GCLKT_4/RPLL1_T_IN0 | I/O | 2 | DQ3 | GCLKT_4/RPLL1_T_IN0 | True_of_IOR31B | True | x16 | L12 |
| IOR31B/GCLKC_4/RPLL1_C_FB1 | I/O | 2 | DQ3 | GCLKC_4/RPLL1_C_FB1 | Comp_of_IOR31A | True | x16 | L13 |
| IOR33A/GCLKT_5/RPLL1_T_IN1 | I/O | 2 | none | GCLKT_5/RPLL1_T_IN1 | True_of_IOR33B | True | x16 | K15 |
| IOR33B/GCLKC_5/RPLL1_C_FB0 | I/O | 2 | none | GCLKC_5/RPLL1_C_FB0 | Comp_of_IOR33A | True | x16 | K16 |
| IOR35A | I/O | 11 | none | | | none | none | R16 |
| IOR3A/TMS | I/O | 10 | none | TMS | | none | none | B18 |
| IOR3B/TDO | I/O | 10 | none | TDO | | none | none | D16 |
| IOR5A | I/O | 2 | none | | True_of_IOR5B | True | x16 | H12 |
| IOR5B | I/O | 2 | none | | Comp_of_IOR5A | True | x16 | G13 |
| IOR7A | I/O | 2 | DQ2 | | True_of_IOR7B | True | x16 | F14 |
| IOR7B | I/O | 2 | DQ2 | | Comp_of_IOR7A | True | x16 | G14 |
| IOR9A | I/O | 2 | DQ2 | | True_of_IOR9B | True | x16 | C17 |
| IOR9B | I/O | 2 | DQ2 | | Comp_of_IOR9A | True | x16 | C18 |
| IOT11A | I/O | 7 | none | | True_of_IOT11B | True | x16 | F2 |
| IOT11B | I/O | 7 | none | | Comp_of_IOT11A | True | x16 | F1 |
| IOT13A | I/O | 7 | none | | True_of_IOT13B | True | x16 | J7 |
| IOT13B | I/O | 7 | none | | Comp_of_IOT13A | True | x16 | J6 |
| IOT15A | I/O | 7 | none | | True_of_IOT15B | True | x16 | E3 |
| IOT15B | I/O | 7 | none | | Comp_of_IOT15A | True | x16 | E1 |
| IOT17A | I/O | 7 | none | | True_of_IOT17B | True | x16 | F4 |
| IOT17B | I/O | 7 | none | | Comp_of_IOT17A | True | x16 | F3 |
| IOT19A | I/O | 7 | none | | True_of_IOT19B | True | x16 | D2 |
| IOT19B | I/O | 7 | none | | Comp_of_IOT19A | True | x16 | D1 |
| IOT1A/GCLKT_15/LPLL0_T_IN0 | I/O | 7 | none | GCLKT_15/LPLL0_T_IN0 | True_of_IOT1B | True | x16 | H4 |

| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | UG324S |
|----------------|-----|------|------|----------|----------------|------|-----|--------|
| IOT1B/GCLKC_15 | I/O | 7 | none | GCLKC_15 | Comp_of_IOT1A | True | x16 | H3 |
| IOT21A | I/O | 7 | none | | True_of_IOT21B | True | x16 | L7 |
| IOT21B | I/O | 7 | none | | Comp_of_IOT21A | True | x16 | K6 |
| IOT23A | I/O | 7 | none | | True_of_IOT23B | True | x16 | E4 |
| IOT23B | I/O | 7 | none | | Comp_of_IOT23A | True | x16 | D3 |
| IOT25A | I/O | 7 | none | | True_of_IOT25B | True | x16 | F6 |
| IOT25B | I/O | 7 | none | | Comp_of_IOT25A | True | x16 | F5 |
| IOT27A | I/O | 7 | none | | True_of_IOT27B | True | x16 | C2 |
| IOT27B | I/O | 7 | none | | Comp_of_IOT27A | True | x16 | C1 |
| IOT29A/PUDC_B | I/O | 0 | none | PUDC_B | True_of_IOT29B | True | x16 | D4 |
| IOT29B | I/O | 0 | none | | Comp_of_IOT29A | True | x16 | C4 |
| IOT31A | I/O | 0 | none | | True_of_IOT31B | True | x16 | B2 |
| IOT31B | I/O | 0 | none | | Comp_of_IOT31A | True | x16 | A2 |
| IOT33A | I/O | 0 | none | | True_of_IOT33B | True | x16 | D6 |
| IOT33B | I/O | 0 | none | | Comp_of_IOT33A | True | x16 | C6 |
| IOT35A | I/O | 0 | none | | True_of_IOT35B | True | x16 | B3 |
| IOT35B | I/O | 0 | none | | Comp_of_IOT35A | True | x16 | A3 |
| IOT37A | I/O | 0 | none | | True_of_IOT37B | True | x16 | B4 |
| IOT37B | I/O | 0 | none | | Comp_of_IOT37A | True | x16 | A4 |
| IOT39A | I/O | 0 | none | | True_of_IOT39B | True | x16 | C5 |
| IOT39B | I/O | 0 | none | | Comp_of_IOT39A | True | x16 | A5 |
| IOT3A/GCLKT_16 | I/O | 7 | none | GCLKT_16 | True_of_IOT3B | True | x16 | L5 |
| IOT3B/GCLKC_16 | I/O | 7 | none | GCLKC_16 | Comp_of_IOT3A | True | x16 | K5 |
| IOT41A | I/O | 0 | none | | True_of_IOT41B | True | x16 | F7 |
| IOT41B | I/O | 0 | none | | Comp_of_IOT41A | True | x16 | E6 |
| IOT43A | I/O | 0 | none | | True_of_IOT43B | True | x16 | B6 |
| IOT43B | I/O | 0 | none | | Comp_of_IOT43A | True | x16 | A6 |
| IOT45A | I/O | 0 | none | | True_of_IOT45B | True | x16 | E7 |
| IOT45B | I/O | 0 | none | | Comp_of_IOT45A | True | x16 | E8 |
| IOT48A | I/O | 0 | none | | True_of_IOT48B | True | x16 | C7 |
| IOT48B | I/O | 0 | none | | Comp_of_IOT48A | True | x16 | A7 |
| IOT50A | I/O | 0 | none | | True_of_IOT50B | True | x16 | D8 |
| IOT50B | I/O | 0 | none | | Comp_of_IOT50A | True | x16 | C8 |
| IOT52A | I/O | 0 | none | | True_of_IOT52B | True | x16 | G8 |

| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | UG324S |
|----------------------------|-----|------|------------|---------------------|----------------|------|-----|--------|
| IOT52B | I/O | 0 | none | | Comp_of_IOT52A | True | x16 | F8 |
| IOT54A | I/O | 0 | none | | True_of_IOT54B | True | x16 | B8 |
| IOT54B | I/O | 0 | none | | Comp_of_IOT54A | True | x16 | A8 |
| IOT56A/GCLKT_0/TPLL_T_IN1 | I/O | 0 | none | GCLKT_0/TPLL_T_IN1 | True_of_IOT56B | True | x16 | D9 |
| IOT56B/GCLKC_0/TPLL_C_FB1 | I/O | 0 | none | GCLKC_0/TPLL_C_FB1 | Comp_of_IOT56A | True | x16 | C9 |
| IOT58A/GCLKT_1/TPLL_T_IN2 | I/O | 0 | none | GCLKT_1/TPLL_T_IN2 | True_of_IOT58B | True | x16 | B9 |
| IOT58B/GCLKC_1/TPLL_C_FB0 | I/O | 0 | none | GCLKC_1/TPLL_C_FB0 | Comp_of_IOT58A | True | x16 | A9 |
| IOT5A | I/O | 7 | none | | True_of_IOT5B | True | x16 | H6 |
| IOT5B | I/O | 7 | none | | Comp_of_IOT5A | True | x16 | H5 |
| IOT61A/GCLKT_2/TPLL_T_IN0 | I/O | 1 | DQS0/DQ0 | GCLKT_2/TPLL_T_IN0 | True_of_IOT61B | True | x16 | D11 |
| IOT61B/GCLKC_2 | I/O | 1 | DQS0/DQ0 | GCLKC_2 | Comp_of_IOT61A | True | x16 | C11 |
| IOT63A/GCLKT_3/RPLL0_T_IN0 | I/O | 1 | DQ0 | GCLKT_3/RPLL0_T_IN0 | True_of_IOT63B | True | x16 | C10 |
| IOT63B/GCLKC_3 | I/O | 1 | DQ0 | GCLKC_3 | Comp_of_IOT63A | True | x16 | A10 |
| IOT66A | I/O | 1 | DQ0 | | True_of_IOT66B | True | x16 | G9 |
| IOT66B | I/O | 1 | DQ0 | | Comp_of_IOT66A | True | x16 | F9 |
| IOT68A | I/O | 1 | DQ0 | | True_of_IOT68B | True | x16 | B11 |
| IOT68B | I/O | 1 | DQ0 | | Comp_of_IOT68A | True | x16 | A11 |
| IOT70A | I/O | 1 | DQ0 | | True_of_IOT70B | True | x16 | G11 |
| IOT70B | I/O | 1 | DQ0 | | Comp_of_IOT70A | True | x16 | F10 |
| IOT72A | I/O | 1 | DQ0 | | True_of_IOT72B | True | x16 | B12 |
| IOT72B | I/O | 1 | DQ0 | | Comp_of_IOT72A | True | x16 | A12 |
| IOT74A | I/O | 1 | DQ1/DQS_01 | | True_of_IOT74B | True | x16 | F11 |
| IOT74B | I/O | 1 | DQ1/DQS_01 | | Comp_of_IOT74A | True | x16 | E11 |
| IOT76A | I/O | 1 | DQ1 | | True_of_IOT76B | True | x16 | D12 |
| IOT76B | I/O | 1 | DQ1 | | Comp_of_IOT76A | True | x16 | C12 |
| IOT78A | I/O | 1 | DQ1 | | True_of_IOT78B | True | x16 | C13 |
| IOT78B | I/O | 1 | DQ1 | | Comp_of_IOT78A | True | x16 | A13 |
| IOT7A | I/O | 7 | none | | True_of_IOT7B | True | x16 | G3 |
| IOT7B | I/O | 7 | none | | Comp_of_IOT7A | True | x16 | G1 |
| IOT80A | I/O | 1 | DQS1/DQ1 | | True_of_IOT80B | True | x16 | F12 |
| IOT80B | I/O | 1 | DQS1/DQ1 | | Comp_of_IOT80A | True | x16 | E12 |
| IOT83A | I/O | 1 | DQ1 | | True_of_IOT83B | True | x16 | B14 |
| IOT83B | I/O | 1 | DQ1 | | Comp_of_IOT83A | True | x16 | A14 |
| IOT85A | I/O | 1 | DQ1 | | True_of_IOT85B | True | x16 | F13 |

| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | UG324S |
|--------------------|-------|------|------|-------------|----------------|------|-----|--------|
| IOT85B | I/O | 1 | DQ1 | | Comp_of_IOT85A | True | x16 | E13 |
| IOT87A | I/O | 1 | none | | True_of_IOT87B | True | x16 | C15 |
| IOT87B | I/O | 1 | none | | Comp_of_IOT87A | True | x16 | A15 |
| IOT89A/RPLL0_T_FB1 | I/O | 1 | none | RPLL0_T_FB1 | True_of_IOT89B | True | x16 | D14 |
| IOT89B | I/O | 1 | none | | Comp_of_IOT89A | True | x16 | C14 |
| IOT91A/RPLL0_T_IN1 | I/O | 1 | none | RPLL0_T_IN1 | True_of_IOT91B | True | x16 | B16 |
| IOT91B/RPLL0_C_FB0 | I/O | 1 | none | RPLL0_C_FB0 | Comp_of_IOT91A | True | x16 | A16 |
| IOT9A | I/O | 7 | none | | True_of_IOT9B | True | x16 | H7 |
| IOT9B | I/O | 7 | none | | Comp_of_IOT9A | True | x16 | G6 |
| VCC_EXT | Power | N/A | | | | | | J8 |
| VCC_EXT | Power | N/A | | | | | | H9 |
| VCC_EXT | Power | N/A | | | | | | K11 |
| VCC_EXT | Power | N/A | | | | | | H11 |
| VCC_EXT | Power | N/A | | | | | | K9 |
| VCC_EXT | Power | N/A | | | | | | L10 |
| VCC_EXT | Power | N/A | | | | | | M7 |
| VCC_EXT | Power | N/A | | | | | | L8 |
| VCC_EXT | Power | N/A | | | | | | M12 |
| VCC_EXT | Power | N/A | | | | | | G7 |
| VCCIO10/VCCX | Power | N/A | | | | | | P5 |
| VCCIO10/VCCX | Power | N/A | | | | | | G10 |
| VCCIO10/VCCX | Power | N/A | | | | | | K7 |
| VCCIO10/VCCX | Power | N/A | | | | | | M9 |
| VCCIO10/VCCX | Power | N/A | | | | | | E14 |
| VCCIO10/VCCX | Power | N/A | | | | | | B1 |
| VCCIO10/VCCX | Power | N/A | | | | | | E9 |
| VCCIO10/VCCX | Power | N/A | | | | | | P14 |
| VCCIO10/VCCX | Power | N/A | | | | | | B17 |
| VCCIO10/VCCX | Power | N/A | | | | | | J12 |
| VCCIO10/VCCX | Power | N/A | | | | | | P10 |
| VCCIO10/VCCX | Power | N/A | | | | | | E5 |
| NC | N/A | N/A | | | | | | P13 |
| VCC_REG | Power | N/A | | | | | | J10 |
| VCCIO0/VCCIO1 | Power | N/A | | | | | | B15 |

| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | UG324S |
|---------------|--------|------|-----|------|--------|------|-----|--------|
| VCCIO0/VCCIO1 | Power | N/A | | | | | | E10 |
| VCCIO0/VCCIO1 | Power | N/A | | | | | | D13 |
| VCCIO0/VCCIO1 | Power | N/A | | | | | | D7 |
| VCCIO0/VCCIO1 | Power | N/A | | | | | | B5 |
| VCCIO0/VCCIO1 | Power | N/A | | | | | | B10 |
| VCCIO2/VCCIO3 | Power | N/A | | | | | | G15 |
| VCCIO2/VCCIO3 | Power | N/A | | | | | | R17 |
| VCCIO2/VCCIO3 | Power | N/A | | | | | | J14 |
| VCCIO2/VCCIO3 | Power | N/A | | | | | | J17 |
| VCCIO2/VCCIO3 | Power | N/A | | | | | | M15 |
| VCCIO2/VCCIO3 | Power | N/A | | | | | | E17 |
| VCCIO4/VCCIO5 | Power | N/A | | | | | | P9 |
| VCCIO4/VCCIO5 | Power | N/A | | | | | | U4 |
| VCCIO4/VCCIO5 | Power | N/A | | | | | | R6 |
| VCCIO4/VCCIO5 | Power | N/A | | | | | | R12 |
| VCCIO4/VCCIO5 | Power | N/A | | | | | | U9 |
| VCCIO4/VCCIO5 | Power | N/A | | | | | | U14 |
| VCCIO6/VCCIO7 | Power | N/A | | | | | | J5 |
| VCCIO6/VCCIO7 | Power | N/A | | | | | | E2 |
| VCCIO6/VCCIO7 | Power | N/A | | | | | | G4 |
| VCCIO6/VCCIO7 | Power | N/A | | | | | | M4 |
| VCCIO6/VCCIO7 | Power | N/A | | | | | | J2 |
| VCCIO6/VCCIO7 | Power | N/A | | | | | | R2 |
| VQPS | Power | N/A | | | | | | L11 |
| VSS | Ground | N/A | | | | | | A1 |
| VSS | Ground | N/A | | | | | | A18 |
| VSS | Ground | N/A | | | | | | B13 |
| VSS | Ground | N/A | | | | | | B7 |
| VSS | Ground | N/A | | | | | | C16 |
| VSS | Ground | N/A | | | | | | C3 |
| VSS | Ground | N/A | | | | | | D10 |
| VSS | Ground | N/A | | | | | | D5 |
| VSS | Ground | N/A | | | | | | E15 |
| VSS | Ground | N/A | | | | | | G12 |

| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | UG324S |
|------|--------|------|-----|------|--------|------|-----|--------|
| VSS | Ground | N/A | | | | | | G17 |
| VSS | Ground | N/A | | | | | | G2 |
| VSS | Ground | N/A | | | | | | G5 |
| VSS | Ground | N/A | | | | | | H10 |
| VSS | Ground | N/A | | | | | | H8 |
| VSS | Ground | N/A | | | | | | J11 |
| VSS | Ground | N/A | | | | | | J15 |
| VSS | Ground | N/A | | | | | | J4 |
| VSS | Ground | N/A | | | | | | J9 |
| VSS | Ground | N/A | | | | | | K10 |
| VSS | Ground | N/A | | | | | | K8 |
| VSS | Ground | N/A | | | | | | L9 |
| VSS | Ground | N/A | | | | | | M17 |
| VSS | Ground | N/A | | | | | | M2 |
| VSS | Ground | N/A | | | | | | M6 |
| VSS | Ground | N/A | | | | | | N13 |
| VSS | Ground | N/A | | | | | | R1 |
| VSS | Ground | N/A | | | | | | R14 |
| VSS | Ground | N/A | | | | | | R18 |
| VSS | Ground | N/A | | | | | | R4 |
| VSS | Ground | N/A | | | | | | R9 |
| VSS | Ground | N/A | | | | | | T16 |
| VSS | Ground | N/A | | | | | | U12 |
| VSS | Ground | N/A | | | | | | U6 |
| VSS | Ground | N/A | | | | | | V1 |
| VSS | Ground | N/A | | | | | | V18 |

| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | UG324 |
|---|-----|------|------|----------------------------------|----------------|------|------|-------|
| IOB10A/D03/SSPI_CN | I/O | 5 | none | D03/SSPI_CS_N | True_of_IOB10B | True | x16 | U5 |
| IOB10B/D04/SI/SSI0 | I/O | 5 | none | D04/SI/SSI0 | Comp_of_IOB10A | True | x16 | V5 |
| IOB12A/GCLKT_10B/D07/SSPI_WP PN/SSI2 | I/O | 5 | none | GCLKT_10B/D07/SSPI_W PN/SSI2 | True_of_IOB12B | True | x16 | R5 |
| IOB12B/GCLKC_10B/RDWR_B/LP LL1_C_IN1 | I/O | 5 | none | GCLKC_10B/RDWR_B/LP LL1_C_IN1 | Comp_of_IOB12A | True | x16 | T5 |
| IOB14A/SSPI_CLK | I/O | 5 | none | SSPI_CLK | True_of_IOB14B | True | x16 | N6 |
| IOB14B/CLKHOLD_N/SSI3 | I/O | 5 | none | CLKHOLD_N/SSI3 | Comp_of_IOB14A | True | x16 | P7 |
| IOB16A | I/O | 5 | none | | True_of_IOB16B | True | x16 | T6 |
| IOB16B | I/O | 5 | none | | Comp_of_IOB16A | True | x16 | V6 |
| IOB18B | I/O | 5 | none | | Comp_of_IOB18A | True | x16 | P8 |
| IOB1A/RECONFIGN | I/O | 5 | none | RECONFIGN | | none | none | V2 |
| IOB20A | I/O | 5 | none | | True_of_IOB20B | True | x16 | U7 |
| IOB20B | I/O | 5 | none | | Comp_of_IOB20A | True | x16 | V7 |
| IOB22A | I/O | 5 | none | | True_of_IOB22B | True | x16 | U8 |
| IOB22B | I/O | 5 | none | | Comp_of_IOB22A | True | x16 | V8 |
| IOB24A | I/O | 5 | none | | True_of_IOB24B | True | x16 | M8 |
| IOB24B | I/O | 5 | none | | Comp_of_IOB24A | True | x16 | N8 |
| IOB26A/GCLKT_9B | I/O | 5 | none | GCLKT_9B | True_of_IOB26B | True | x16 | M10 |
| IOB26B/GCLKC_9B | I/O | 5 | none | GCLKC_9B | Comp_of_IOB26A | True | x16 | N9 |
| IOB29A/GCLKT_11A | I/O | 4 | none | GCLKT_11A | True_of_IOB29B | True | x16 | T9 |
| IOB29B/GCLKC_11A | I/O | 4 | none | GCLKC_11A | Comp_of_IOB29A | True | x16 | V9 |
| IOB2A | I/O | 5 | none | | True_of_IOB2B | True | x16 | T4 |
| IOB31A/GCLKT_10A/D14 | I/O | 4 | none | GCLKT_10A/D14 | True_of_IOB31B | True | x16 | R8 |
| IOB31B/GCLKC_10A/D15/BPLL_C _FB0 | I/O | 4 | none | GCLKC_10A/D15/BPLL_C _FB0 | Comp_of_IOB31A | True | x16 | T8 |
| IOB33A/GCLKT_9A/D13/BPLL_T_I N1 | I/O | 4 | none | GCLKT_9A/D13/BPLL_T_I N1 | True_of_IOB33B | True | x16 | U10 |
| IOB33B/GCLKC_9A/EMCCLK | I/O | 4 | none | GCLKC_9A/EMCCLK | Comp_of_IOB33A | True | x16 | V10 |
| IOB35A/GCLKT_8 | I/O | 4 | none | GCLKT_8 | True_of_IOB35B | True | x16 | R10 |
| IOB35B/GCLKC_8 | I/O | 4 | none | GCLKC_8 | Comp_of_IOB35A | True | x16 | T10 |
| IOB37A/READY | I/O | 4 | none | READY | True_of_IOB37B | True | x16 | U3 |
| IOB37B/MCS_N/CSO_B | I/O | 4 | none | MCS_N/CSO_B | Comp_of_IOB37A | True | x16 | V3 |
| IOB39A | I/O | 4 | none | | True_of_IOB39B | True | x16 | U11 |

| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | UG324 |
|-------------------------------------|-----|------|------|------------------------------|----------------|------|------|-------|
| IOB39B | I/O | 4 | none | | Comp_of_IOB39A | True | x16 | V11 |
| IOB41A | I/O | 4 | none | | True_of_IOB41B | True | x16 | N10 |
| IOB41B | I/O | 4 | none | | Comp_of_IOB41A | True | x16 | P11 |
| IOB43A | I/O | 4 | none | | True_of_IOB43B | True | x16 | T12 |
| IOB43B | I/O | 4 | none | | Comp_of_IOB43A | True | x16 | V12 |
| IOB45A | I/O | 4 | none | | True_of_IOB45B | True | x16 | R11 |
| IOB45B | I/O | 4 | none | | Comp_of_IOB45A | True | x16 | T11 |
| IOB48A | I/O | 4 | none | | True_of_IOB48B | True | x16 | M11 |
| IOB48B | I/O | 4 | none | | Comp_of_IOB48A | True | x16 | N11 |
| IOB4A/D08/SDA | I/O | 5 | none | D08/SDA | True_of_IOB4B | True | x16 | N5 |
| IOB4B/D09/SCL/LPLL1_C_FB0 | I/O | 5 | none | D09/SCL/LPLL1_C_FB0 | Comp_of_IOB4A | True | x16 | P6 |
| IOB50A/D11 | I/O | 4 | none | D11 | True_of_IOB50B | True | x16 | U13 |
| IOB50B/D12 | I/O | 4 | none | D12 | Comp_of_IOB50A | True | x16 | V13 |
| IOB52A/MODE1 | I/O | 4 | none | MODE1 | True_of_IOB52B | True | x16 | N12 |
| IOB52B/D10 | I/O | 4 | none | D10 | Comp_of_IOB52A | True | x16 | P12 |
| IOB54A/GCLKT_11B/D01/MI2 | I/O | 4 | none | GCLKT_11B/D01/MI2 | True_of_IOB54B | True | x16 | T14 |
| IOB54B/GCLKC_11B/D02/MI3/BPLL_C_FB1 | I/O | 4 | none | GCLKC_11B/D02/MI3/BPLL_C_FB1 | Comp_of_IOB54A | True | x16 | V14 |
| IOB56A | I/O | 4 | none | | True_of_IOB56B | True | x16 | U15 |
| IOB56B | I/O | 4 | none | | Comp_of_IOB56A | True | x16 | V15 |
| IOB58A/D00/MISO/MI1/DIN | I/O | 4 | none | D00/MISO/MI1/DIN | True_of_IOB58B | True | x16 | R13 |
| IOB58B/MOSI/CSI_B/MI0 | I/O | 4 | none | MOSI/CSI_B/MI0 | Comp_of_IOB58A | True | x16 | T13 |
| IOB60A | I/O | 4 | none | | True_of_IOB60B | True | x16 | U16 |
| IOB60B | I/O | 4 | none | | Comp_of_IOB60A | True | x16 | V16 |
| IOB62A/CCLK | I/O | 4 | none | CCLK | True_of_IOB62B | True | x16 | R15 |
| IOB62B/MODE0 | I/O | 4 | none | MODE0 | Comp_of_IOB62A | True | x16 | T15 |
| IOB64A/DONE | I/O | 4 | none | DONE | | none | none | V17 |
| IOB65A | I/O | 3 | none | | True_of_IOB65B | True | x16 | P15 |
| IOB65B/DOUT | I/O | 3 | none | DOUT | Comp_of_IOB65A | True | x16 | P16 |
| IOB67A | I/O | 3 | none | | True_of_IOB67B | True | x16 | L14 |
| IOB67B | I/O | 3 | none | | Comp_of_IOB67A | True | x16 | M13 |
| IOB69A | I/O | 3 | DQ5 | | True_of_IOB69B | True | x16 | M14 |
| IOB69B | I/O | 3 | DQ5 | | Comp_of_IOB69A | True | x16 | N14 |

| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | UG324 |
|---------------------------|-----|------|------------|--------------------|----------------|------|-----|-------|
| IOB6A | I/O | 5 | none | | True_of_IOB6B | True | x16 | R7 |
| IOB6B | I/O | 5 | none | | Comp_of_IOB6A | True | x16 | T7 |
| IOB71A | I/O | 3 | DQ5 | | True_of_IOB71B | True | x16 | U17 |
| IOB71B | I/O | 3 | DQ5 | | Comp_of_IOB71A | True | x16 | U18 |
| IOB73A | I/O | 3 | DQ5 | | True_of_IOB73B | True | x16 | T17 |
| IOB73B | I/O | 3 | DQ5 | | Comp_of_IOB73A | True | x16 | T18 |
| IOB75A/GCLKT_6B | I/O | 3 | DQS5/DQ5 | GCLKT_6B | True_of_IOB75B | True | x16 | N15 |
| IOB75B/GCLKC_6B | I/O | 3 | DQS5/DQ5 | GCLKC_6B | Comp_of_IOB75A | True | x16 | N16 |
| IOB77A | I/O | 3 | DQ5 | | True_of_IOB77B | True | x16 | P17 |
| IOB77B | I/O | 3 | DQ5 | | Comp_of_IOB77A | True | x16 | P18 |
| IOB79A | I/O | 3 | DQ5/DQS_45 | | True_of_IOB79B | True | x16 | N17 |
| IOB79B | I/O | 3 | DQ5/DQS_45 | | Comp_of_IOB79A | True | x16 | N18 |
| IOB81A | I/O | 3 | DQ4 | | True_of_IOB81B | True | x16 | M16 |
| IOB81B | I/O | 3 | DQ4 | | Comp_of_IOB81A | True | x16 | M18 |
| IOB83A | I/O | 3 | DQ4 | | True_of_IOB83B | True | x16 | L17 |
| IOB83B | I/O | 3 | DQ4 | | Comp_of_IOB83A | True | x16 | L18 |
| IOB85A | I/O | 3 | DQS4/DQ4 | | True_of_IOB85B | True | x16 | K17 |
| IOB85B | I/O | 3 | DQS4/DQ4 | | Comp_of_IOB85A | True | x16 | K18 |
| IOB87A | I/O | 3 | DQ4 | | True_of_IOB87B | True | x16 | J16 |
| IOB89A/GCLKT_7/BPLL_T_IN0 | I/O | 3 | DQ4 | GCLKT_7/BPLL_T_IN0 | True_of_IOB89B | True | x16 | H17 |
| IOB89B/GCLKC_7 | I/O | 3 | DQ4 | GCLKC_7 | Comp_of_IOB89A | True | x16 | H18 |
| IOB8A/D05/SO/SSI1 | I/O | 5 | none | D05/SO/SSI1 | True_of_IOB8B | True | x16 | R3 |
| IOB8B/D06 | I/O | 5 | none | D06 | Comp_of_IOB8A | True | x16 | T3 |
| IOB91A/GCLKT_6A | I/O | 3 | DQ4 | GCLKT_6A | True_of_IOB91B | True | x16 | L15 |
| IOB91B/GCLKC_6A | I/O | 3 | DQ4 | GCLKC_6A | Comp_of_IOB91A | True | x16 | L16 |
| IOL12A | I/O | 6 | DQ7 | | True_of_IOL12B | True | x16 | K2 |
| IOL12B | I/O | 6 | DQ7 | | Comp_of_IOL12A | True | x16 | K1 |
| IOL14A/LPLL1_T_IN0 | I/O | 6 | DQ7 | LPLL1_T_IN0 | True_of_IOL14B | True | x16 | L2 |
| IOL14B | I/O | 6 | DQ7 | | Comp_of_IOL14A | True | x16 | L1 |
| IOL16A | I/O | 6 | DQ6/DQS_67 | | True_of_IOL16B | True | x16 | M3 |
| IOL16B | I/O | 6 | DQ6/DQS_67 | | Comp_of_IOL16A | True | x16 | M1 |
| IOL18A | I/O | 6 | DQ6 | | True_of_IOL18B | True | x16 | N2 |
| IOL18B | I/O | 6 | DQ6 | | Comp_of_IOL18A | True | x16 | N1 |
| IOL21A | I/O | 6 | DQS6/DQ6 | | True_of_IOL21B | True | x16 | P2 |

| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | UG324 |
|-----------------------------|-----|------|------------|-----------------------|----------------|------|------|-------|
| IOL21B | I/O | 6 | DQS6/DQ6 | | Comp_of_IOL21A | True | x16 | P1 |
| IOL3A/GCLKT_14A/LPLL0_T_IN2 | I/O | 6 | DQ7 | GCLKT_14A/LPLL0_T_IN2 | True_of_IOL3B | True | x16 | H2 |
| IOL3B/GCLKC_14/LPLL0_C_FB0 | I/O | 6 | DQ7 | GCLKC_14/LPLL0_C_FB0 | Comp_of_IOL3A | True | x16 | H1 |
| IOL5A/GCLKT_13/LPLL0_T_IN1 | I/O | 6 | DQ7 | GCLKT_13/LPLL0_T_IN1 | True_of_IOL5B | True | x16 | K4 |
| IOL5B/GCLKC_13/LPLL0_C_FB1 | I/O | 6 | DQ7 | GCLKC_13/LPLL0_C_FB1 | Comp_of_IOL5A | True | x16 | K3 |
| IOL7B | I/O | 6 | DQ7 | | Comp_of_IOL7A | True | x16 | J1 |
| IOL9A | I/O | 6 | DQS7/DQ7 | | True_of_IOL9B | True | x16 | L4 |
| IOL9B | I/O | 6 | DQS7/DQ7 | | Comp_of_IOL9A | True | x16 | L3 |
| IOR12A | I/O | 2 | DQS2/DQ2 | | True_of_IOR12B | True | x16 | D17 |
| IOR12B | I/O | 2 | DQS2/DQ2 | | Comp_of_IOR12A | True | x16 | D18 |
| IOR14A | I/O | 2 | DQ2 | | True_of_IOR14B | True | x16 | F15 |
| IOR14B | I/O | 2 | DQ2 | | Comp_of_IOR14A | True | x16 | F16 |
| IOR16A | I/O | 2 | DQ2 | | True_of_IOR16B | True | x16 | E16 |
| IOR16B | I/O | 2 | DQ2 | | Comp_of_IOR16A | True | x16 | E18 |
| IOR18A | I/O | 2 | DQ2/DQS_23 | | True_of_IOR18B | True | x16 | H13 |
| IOR18B | I/O | 2 | DQ2/DQS_23 | | Comp_of_IOR18A | True | x16 | H14 |
| IOR1A/TCK | I/O | 10 | none | TCK | | none | none | A17 |
| IOR1B/TDI | I/O | 10 | none | TDI | | none | none | D15 |
| IOR20A | I/O | 2 | DQ3 | | True_of_IOR20B | True | x16 | F17 |
| IOR20B | I/O | 2 | DQ3 | | Comp_of_IOR20A | True | x16 | F18 |
| IOR22A | I/O | 2 | DQ3 | | True_of_IOR22B | True | x16 | G16 |
| IOR22B | I/O | 2 | DQ3 | | Comp_of_IOR22A | True | x16 | G18 |
| IOR24A | I/O | 2 | DQ3 | | True_of_IOR24B | True | x16 | H15 |
| IOR26A | I/O | 2 | DQS3/DQ3 | | True_of_IOR26B | True | x16 | J13 |
| IOR26B | I/O | 2 | DQS3/DQ3 | | Comp_of_IOR26A | True | x16 | K14 |
| IOR29A | I/O | 2 | DQ3 | | True_of_IOR29B | True | x16 | K12 |
| IOR29B | I/O | 2 | DQ3 | | Comp_of_IOR29A | True | x16 | K13 |
| IOR31A/GCLKT_4/RPLL1_T_IN0 | I/O | 2 | DQ3 | GCLKT_4/RPLL1_T_IN0 | True_of_IOR31B | True | x16 | L12 |
| IOR31B/GCLKC_4/RPLL1_C_FB1 | I/O | 2 | DQ3 | GCLKC_4/RPLL1_C_FB1 | Comp_of_IOR31A | True | x16 | L13 |
| IOR33A/GCLKT_5/RPLL1_T_IN1 | I/O | 2 | none | GCLKT_5/RPLL1_T_IN1 | True_of_IOR33B | True | x16 | K15 |
| IOR33B/GCLKC_5/RPLL1_C_FB0 | I/O | 2 | none | GCLKC_5/RPLL1_C_FB0 | Comp_of_IOR33A | True | x16 | K16 |
| IOR35A | I/O | 11 | none | | | none | none | R16 |
| IOR3A/TMS | I/O | 10 | none | TMS | | none | none | B18 |

| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | UG324 |
|----------------------------|-----|------|------|----------------------|----------------|------|------|-------|
| IOR3B/TDO | I/O | 10 | none | TDO | | none | none | D16 |
| IOR5A | I/O | 2 | none | | True_of_IOR5B | True | x16 | H12 |
| IOR5B | I/O | 2 | none | | Comp_of_IOR5A | True | x16 | G13 |
| IOR7A | I/O | 2 | DQ2 | | True_of_IOR7B | True | x16 | F14 |
| IOR7B | I/O | 2 | DQ2 | | Comp_of_IOR7A | True | x16 | G14 |
| IOR9A | I/O | 2 | DQ2 | | True_of_IOR9B | True | x16 | C17 |
| IOR9B | I/O | 2 | DQ2 | | Comp_of_IOR9A | True | x16 | C18 |
| IOT11A | I/O | 7 | none | | True_of_IOT11B | True | x16 | F2 |
| IOT11B | I/O | 7 | none | | Comp_of_IOT11A | True | x16 | F1 |
| IOT13A | I/O | 7 | none | | True_of_IOT13B | True | x16 | J7 |
| IOT13B | I/O | 7 | none | | Comp_of_IOT13A | True | x16 | J6 |
| IOT15A | I/O | 7 | none | | True_of_IOT15B | True | x16 | E3 |
| IOT15B | I/O | 7 | none | | Comp_of_IOT15A | True | x16 | E1 |
| IOT17A | I/O | 7 | none | | True_of_IOT17B | True | x16 | F4 |
| IOT17B | I/O | 7 | none | | Comp_of_IOT17A | True | x16 | F3 |
| IOT19A | I/O | 7 | none | | True_of_IOT19B | True | x16 | D2 |
| IOT19B | I/O | 7 | none | | Comp_of_IOT19A | True | x16 | D1 |
| IOT1A/GCLKT_15/LPLL0_T_IN0 | I/O | 7 | none | GCLKT_15/LPLL0_T_IN0 | True_of_IOT1B | True | x16 | H4 |
| IOT1B/GCLKC_15 | I/O | 7 | none | GCLKC_15 | Comp_of_IOT1A | True | x16 | H3 |
| IOT21A | I/O | 7 | none | | True_of_IOT21B | True | x16 | L7 |
| IOT21B | I/O | 7 | none | | Comp_of_IOT21A | True | x16 | K6 |
| IOT23A | I/O | 7 | none | | True_of_IOT23B | True | x16 | E4 |
| IOT23B | I/O | 7 | none | | Comp_of_IOT23A | True | x16 | D3 |
| IOT25A | I/O | 7 | none | | True_of_IOT25B | True | x16 | F6 |
| IOT25B | I/O | 7 | none | | Comp_of_IOT25A | True | x16 | F5 |
| IOT27A | I/O | 7 | none | | True_of_IOT27B | True | x16 | C2 |
| IOT27B | I/O | 7 | none | | Comp_of_IOT27A | True | x16 | C1 |
| IOT29A/PUDC_B | I/O | 0 | none | PUDC_B | True_of_IOT29B | True | x16 | D4 |
| IOT29B | I/O | 0 | none | | Comp_of_IOT29A | True | x16 | C4 |
| IOT31A | I/O | 0 | none | | True_of_IOT31B | True | x16 | B2 |
| IOT31B | I/O | 0 | none | | Comp_of_IOT31A | True | x16 | A2 |
| IOT33A | I/O | 0 | none | | True_of_IOT33B | True | x16 | D6 |
| IOT33B | I/O | 0 | none | | Comp_of_IOT33A | True | x16 | C6 |

| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | UG324 |
|----------------------------|-----|------|----------|---------------------|----------------|------|-----|-------|
| IOT35A | I/O | 0 | none | | True_of_IOT35B | True | x16 | B3 |
| IOT35B | I/O | 0 | none | | Comp_of_IOT35A | True | x16 | A3 |
| IOT37A | I/O | 0 | none | | True_of_IOT37B | True | x16 | B4 |
| IOT37B | I/O | 0 | none | | Comp_of_IOT37A | True | x16 | A4 |
| IOT39A | I/O | 0 | none | | True_of_IOT39B | True | x16 | C5 |
| IOT39B | I/O | 0 | none | | Comp_of_IOT39A | True | x16 | A5 |
| IOT3A/GCLKT_16 | I/O | 7 | none | GCLKT_16 | True_of_IOT3B | True | x16 | L5 |
| IOT3B/GCLKC_16 | I/O | 7 | none | GCLKC_16 | Comp_of_IOT3A | True | x16 | K5 |
| IOT41A | I/O | 0 | none | | True_of_IOT41B | True | x16 | F7 |
| IOT41B | I/O | 0 | none | | Comp_of_IOT41A | True | x16 | E6 |
| IOT43A | I/O | 0 | none | | True_of_IOT43B | True | x16 | B6 |
| IOT43B | I/O | 0 | none | | Comp_of_IOT43A | True | x16 | A6 |
| IOT45A | I/O | 0 | none | | True_of_IOT45B | True | x16 | E7 |
| IOT45B | I/O | 0 | none | | Comp_of_IOT45A | True | x16 | E8 |
| IOT48A | I/O | 0 | none | | True_of_IOT48B | True | x16 | C7 |
| IOT48B | I/O | 0 | none | | Comp_of_IOT48A | True | x16 | A7 |
| IOT50A | I/O | 0 | none | | True_of_IOT50B | True | x16 | D8 |
| IOT50B | I/O | 0 | none | | Comp_of_IOT50A | True | x16 | C8 |
| IOT52A | I/O | 0 | none | | True_of_IOT52B | True | x16 | G8 |
| IOT52B | I/O | 0 | none | | Comp_of_IOT52A | True | x16 | F8 |
| IOT54A | I/O | 0 | none | | True_of_IOT54B | True | x16 | B8 |
| IOT54B | I/O | 0 | none | | Comp_of_IOT54A | True | x16 | A8 |
| IOT56A/GCLKT_0/TPLL_T_IN1 | I/O | 0 | none | GCLKT_0/TPLL_T_IN1 | True_of_IOT56B | True | x16 | D9 |
| IOT56B/GCLKC_0/TPLL_C_FB1 | I/O | 0 | none | GCLKC_0/TPLL_C_FB1 | Comp_of_IOT56A | True | x16 | C9 |
| IOT58A/GCLKT_1/TPLL_T_IN2 | I/O | 0 | none | GCLKT_1/TPLL_T_IN2 | True_of_IOT58B | True | x16 | B9 |
| IOT58B/GCLKC_1/TPLL_C_FB0 | I/O | 0 | none | GCLKC_1/TPLL_C_FB0 | Comp_of_IOT58A | True | x16 | A9 |
| IOT5B | I/O | 7 | none | | Comp_of_IOT5A | True | x16 | H5 |
| IOT61A/GCLKT_2/TPLL_T_IN0 | I/O | 1 | DQS0/DQ0 | GCLKT_2/TPLL_T_IN0 | True_of_IOT61B | True | x16 | D11 |
| IOT61B/GCLKC_2 | I/O | 1 | DQS0/DQ0 | GCLKC_2 | Comp_of_IOT61A | True | x16 | C11 |
| IOT63A/GCLKT_3/RPLL0_T_IN0 | I/O | 1 | DQ0 | GCLKT_3/RPLL0_T_IN0 | True_of_IOT63B | True | x16 | C10 |
| IOT63B/GCLKC_3 | I/O | 1 | DQ0 | GCLKC_3 | Comp_of_IOT63A | True | x16 | A10 |
| IOT66A | I/O | 1 | DQ0 | | True_of_IOT66B | True | x16 | G9 |
| IOT66B | I/O | 1 | DQ0 | | Comp_of_IOT66A | True | x16 | F9 |
| IOT68A | I/O | 1 | DQ0 | | True_of_IOT68B | True | x16 | B11 |

| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | UG324 |
|--------------------|-----|------|------------|-------------|----------------|------|------|-------|
| IOT68B | I/O | 1 | DQ0 | | Comp_of_IOT68A | True | x16 | A11 |
| IOT70A | I/O | 1 | DQ0 | | True_of_IOT70B | True | x16 | G11 |
| IOT70B | I/O | 1 | DQ0 | | Comp_of_IOT70A | True | x16 | F10 |
| IOT72B | I/O | 1 | DQ0 | | Comp_of_IOT72A | True | x16 | A12 |
| IOT74A | I/O | 1 | DQ1/DQS_01 | | True_of_IOT74B | True | x16 | F11 |
| IOT74B | I/O | 1 | DQ1/DQS_01 | | Comp_of_IOT74A | True | x16 | E11 |
| IOT76A | I/O | 1 | DQ1 | | True_of_IOT76B | True | x16 | D12 |
| IOT76B | I/O | 1 | DQ1 | | Comp_of_IOT76A | True | x16 | C12 |
| IOT78A | I/O | 1 | DQ1 | | True_of_IOT78B | True | x16 | C13 |
| IOT78B | I/O | 1 | DQ1 | | Comp_of_IOT78A | True | x16 | A13 |
| IOT7A | I/O | 7 | none | | True_of_IOT7B | True | x16 | G3 |
| IOT7B | I/O | 7 | none | | Comp_of_IOT7A | True | x16 | G1 |
| IOT80A | I/O | 1 | DQS1/DQ1 | | True_of_IOT80B | True | x16 | F12 |
| IOT80B | I/O | 1 | DQS1/DQ1 | | Comp_of_IOT80A | True | x16 | E12 |
| IOT83A | I/O | 1 | DQ1 | | True_of_IOT83B | True | x16 | B14 |
| IOT83B | I/O | 1 | DQ1 | | Comp_of_IOT83A | True | x16 | A14 |
| IOT85A | I/O | 1 | DQ1 | | True_of_IOT85B | True | x16 | F13 |
| IOT85B | I/O | 1 | DQ1 | | Comp_of_IOT85A | True | x16 | E13 |
| IOT87A | I/O | 1 | none | | True_of_IOT87B | True | x16 | C15 |
| IOT87B | I/O | 1 | none | | Comp_of_IOT87A | True | x16 | A15 |
| IOT89A/RPLL0_T_FB1 | I/O | 1 | none | RPLL0_T_FB1 | True_of_IOT89B | True | x16 | D14 |
| IOT89B | I/O | 1 | none | | Comp_of_IOT89A | True | x16 | C14 |
| IOT91A/RPLL0_T_IN1 | I/O | 1 | none | RPLL0_T_IN1 | True_of_IOT91B | True | x16 | B16 |
| IOT91B/RPLL0_C_FB0 | I/O | 1 | none | RPLL0_C_FB0 | Comp_of_IOT91A | True | x16 | A16 |
| IOT9A | I/O | 7 | none | | True_of_IOT9B | True | x16 | H7 |
| IOT9B | I/O | 7 | none | | Comp_of_IOT9A | True | x16 | G6 |
| M0_CKN | DIO | MIPI | none | | | none | none | M5 |
| M0_CKP | DIO | MIPI | none | | | none | none | L6 |
| M0_D0N | DIO | MIPI | none | | | none | none | T1 |
| M0_D0P | DIO | MIPI | none | | | none | none | T2 |
| M0_D1N | DIO | MIPI | none | | | none | none | U1 |
| M0_D1P | DIO | MIPI | none | | | none | none | U2 |
| M0_D2N | DIO | MIPI | none | | | none | none | N3 |
| M0_D2P | DIO | MIPI | none | | | none | none | N4 |

| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | UG324 |
|--------------------------|-------|------|------|------|--------|------|------|-------|
| M0_D3N | DIO | MIPI | none | | | none | none | P3 |
| M0_D3P | DIO | MIPI | none | | | none | none | P4 |
| M0_VDD_12 | Power | N/A | | | | | | V4 |
| VCC_EXT | Power | N/A | | | | | | H6 |
| VCC_EXT | Power | N/A | | | | | | J3 |
| VCC_EXT | Power | N/A | | | | | | J18 |
| VCC_EXT | Power | N/A | | | | | | B12 |
| VCC_EXT | Power | N/A | | | | | | H16 |
| VCC_EXT | Power | N/A | | | | | | N7 |
| M0_VDDA/M0_VDDD/VCC/VCCC | Power | N/A | | | | | | H9 |
| M0_VDDA/M0_VDDD/VCC/VCCC | Power | N/A | | | | | | G7 |
| M0_VDDA/M0_VDDD/VCC/VCCC | Power | N/A | | | | | | H11 |
| M0_VDDA/M0_VDDD/VCC/VCCC | Power | N/A | | | | | | J8 |
| M0_VDDA/M0_VDDD/VCC/VCCC | Power | N/A | | | | | | L8 |
| M0_VDDA/M0_VDDD/VCC/VCCC | Power | N/A | | | | | | M7 |
| M0_VDDA/M0_VDDD/VCC/VCCC | Power | N/A | | | | | | M12 |
| M0_VDDA/M0_VDDD/VCC/VCCC | Power | N/A | | | | | | L10 |
| M0_VDDA/M0_VDDD/VCC/VCCC | Power | N/A | | | | | | K9 |
| M0_VDDA/M0_VDDD/VCC/VCCC | Power | N/A | | | | | | K11 |
| M0_VDDX/VCCIO10/VCCX | Power | N/A | | | | | | P5 |
| M0_VDDX/VCCIO10/VCCX | Power | N/A | | | | | | M9 |
| M0_VDDX/VCCIO10/VCCX | Power | N/A | | | | | | P10 |
| M0_VDDX/VCCIO10/VCCX | Power | N/A | | | | | | E9 |
| M0_VDDX/VCCIO10/VCCX | Power | N/A | | | | | | B1 |
| M0_VDDX/VCCIO10/VCCX | Power | N/A | | | | | | E5 |
| M0_VDDX/VCCIO10/VCCX | Power | N/A | | | | | | P14 |
| M0_VDDX/VCCIO10/VCCX | Power | N/A | | | | | | B17 |
| M0_VDDX/VCCIO10/VCCX | Power | N/A | | | | | | E14 |
| M0_VDDX/VCCIO10/VCCX | Power | N/A | | | | | | J12 |
| M0_VDDX/VCCIO10/VCCX | Power | N/A | | | | | | K7 |
| M0_VDDX/VCCIO10/VCCX | Power | N/A | | | | | | G10 |
| NC | N/A | N/A | | | | | | P13 |
| VCC_REG | Power | N/A | | | | | | J10 |
| VCCIO0/VCCIO1 | Power | N/A | | | | | | B15 |

| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | UG324 |
|---------------|--------|------|-----|------|--------|------|-----|-------|
| VCCIO0/VCCIO1 | Power | N/A | | | | | | B10 |
| VCCIO0/VCCIO1 | Power | N/A | | | | | | E10 |
| VCCIO0/VCCIO1 | Power | N/A | | | | | | B5 |
| VCCIO0/VCCIO1 | Power | N/A | | | | | | D7 |
| VCCIO0/VCCIO1 | Power | N/A | | | | | | D13 |
| VCCIO2/VCCIO3 | Power | N/A | | | | | | J17 |
| VCCIO2/VCCIO3 | Power | N/A | | | | | | R17 |
| VCCIO2/VCCIO3 | Power | N/A | | | | | | E17 |
| VCCIO2/VCCIO3 | Power | N/A | | | | | | M15 |
| VCCIO2/VCCIO3 | Power | N/A | | | | | | G15 |
| VCCIO2/VCCIO3 | Power | N/A | | | | | | J14 |
| VCCIO4/VCCIO5 | Power | N/A | | | | | | U14 |
| VCCIO4/VCCIO5 | Power | N/A | | | | | | P9 |
| VCCIO4/VCCIO5 | Power | N/A | | | | | | U9 |
| VCCIO4/VCCIO5 | Power | N/A | | | | | | U4 |
| VCCIO4/VCCIO5 | Power | N/A | | | | | | R12 |
| VCCIO4/VCCIO5 | Power | N/A | | | | | | R6 |
| VCCIO6/VCCIO7 | Power | N/A | | | | | | R2 |
| VCCIO6/VCCIO7 | Power | N/A | | | | | | E2 |
| VCCIO6/VCCIO7 | Power | N/A | | | | | | J2 |
| VCCIO6/VCCIO7 | Power | N/A | | | | | | J5 |
| VCCIO6/VCCIO7 | Power | N/A | | | | | | G4 |
| VCCIO6/VCCIO7 | Power | N/A | | | | | | M4 |
| VQPS | Power | N/A | | | | | | L11 |
| VSS | Ground | N/A | | | | | | A18 |
| VSS | Ground | N/A | | | | | | B13 |
| VSS | Ground | N/A | | | | | | B7 |
| VSS | Ground | N/A | | | | | | C16 |
| VSS | Ground | N/A | | | | | | C3 |
| VSS | Ground | N/A | | | | | | D10 |
| VSS | Ground | N/A | | | | | | D5 |
| VSS | Ground | N/A | | | | | | E15 |
| VSS | Ground | N/A | | | | | | G12 |
| VSS | Ground | N/A | | | | | | G17 |

| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | UG324 |
|------|--------|------|-----|------|--------|------|-----|-------|
| VSS | Ground | N/A | | | | | | G2 |
| VSS | Ground | N/A | | | | | | G5 |
| VSS | Ground | N/A | | | | | | H10 |
| VSS | Ground | N/A | | | | | | H8 |
| VSS | Ground | N/A | | | | | | J11 |
| VSS | Ground | N/A | | | | | | J15 |
| VSS | Ground | N/A | | | | | | J4 |
| VSS | Ground | N/A | | | | | | J9 |
| VSS | Ground | N/A | | | | | | K10 |
| VSS | Ground | N/A | | | | | | K8 |
| VSS | Ground | N/A | | | | | | A1 |
| VSS | Ground | N/A | | | | | | L9 |
| VSS | Ground | N/A | | | | | | M17 |
| VSS | Ground | N/A | | | | | | M2 |
| VSS | Ground | N/A | | | | | | M6 |
| VSS | Ground | N/A | | | | | | N13 |
| VSS | Ground | N/A | | | | | | R1 |
| VSS | Ground | N/A | | | | | | R14 |
| VSS | Ground | N/A | | | | | | R18 |
| VSS | Ground | N/A | | | | | | R4 |
| VSS | Ground | N/A | | | | | | R9 |
| VSS | Ground | N/A | | | | | | T16 |
| VSS | Ground | N/A | | | | | | U12 |
| VSS | Ground | N/A | | | | | | U6 |
| VSS | Ground | N/A | | | | | | V1 |
| VSS | Ground | N/A | | | | | | V18 |

| 注! | | | | | | | | | |
|---|-----|------|------|----------------------------------|----------------|------|------|-----------------------|-----------------------|
| [1] EV版本封装。 | | | | | | | | | |
| [2] LV版本封装。 | | | | | | | | | |
| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | MG196S ^[1] | MG196S ^[2] |
| IOB10A/D03/SSPI_CN | I/O | 5 | none | D03/SSPI_CS_N | True_of_IOB10B | True | x16 | N5 | N5 |
| IOB10B/D04/SI/SSIO | I/O | 5 | none | D04/SI/SSIO | Comp_of_IOB10A | True | x16 | P5 | P5 |
| IOB12A/GCLKT_10B/D07/SSPI_WP PN/SSI2 | I/O | 5 | none | GCLKT_10B/D07/SSPI_WP N/SSI2 | True_of_IOB12B | True | x16 | N6 | N6 |
| IOB12B/GCLKC_10B/RDWR_B/LP LL1_C_IN1 | I/O | 5 | none | GCLKC_10B/RDWR_B/LP L1_C_IN1 | Comp_of_IOB12A | True | x16 | P6 | P6 |
| IOB14A/SSPI_CLK | I/O | 5 | none | SSPI_CLK | True_of_IOB14B | True | x16 | N4 | N4 |
| IOB14B/CLKHOLD_N/SSI3 | I/O | 5 | none | CLKHOLD_N/SSI3 | Comp_of_IOB14A | True | x16 | P4 | P4 |
| IOB1A/RECONFIGN | I/O | 5 | none | RECONFIGN | | none | none | N1 | N1 |
| IOB31A/GCLKT_10A/D14 | I/O | 4 | none | GCLKT_10A/D14 | True_of_IOB31B | True | x16 | N7 | N7 |
| IOB31B/GCLKC_10A/D15/BPLL_C FB0 | I/O | 4 | none | GCLKC_10A/D15/BPLL_C_ FB0 | Comp_of_IOB31A | True | x16 | P7 | P7 |
| IOB33A/GCLKT_9A/D13/BPLL_T_I N1 | I/O | 4 | none | GCLKT_9A/D13/BPLL_T_I N1 | True_of_IOB33B | True | x16 | N8 | N8 |
| IOB33B/GCLKC_9A/EMCCLK | I/O | 4 | none | GCLKC_9A/EMCCLK | Comp_of_IOB33A | True | x16 | P8 | P8 |
| IOB37A/READY | I/O | 4 | none | READY | True_of_IOB37B | True | x16 | N2 | N2 |
| IOB37B/MCS_N/CSO_B | I/O | 4 | none | MCS_N/CSO_B | Comp_of_IOB37A | True | x16 | P2 | P2 |
| IOB4A/D08/SDA | I/O | 5 | none | D08/SDA | True_of_IOB4B | True | x16 | N3 | N3 |
| IOB4B/D09/SCL/LPLL1_C_FB0 | I/O | 5 | none | D09/SCL/LPLL1_C_FB0 | Comp_of_IOB4A | True | x16 | P3 | P3 |
| IOB50A/D11 | I/O | 4 | none | D11 | True_of_IOB50B | True | x16 | L8 | L8 |
| IOB50B/D12 | I/O | 4 | none | D12 | Comp_of_IOB50A | True | x16 | M8 | M8 |
| IOB52A/MODE1 | I/O | 4 | none | MODE1 | True_of_IOB52B | True | x16 | N9 | N9 |
| IOB52B/D10 | I/O | 4 | none | D10 | Comp_of_IOB52A | True | x16 | P9 | P9 |
| IOB54A/GCLKT_11B/D01/MI2 | I/O | 4 | none | GCLKT_11B/D01/MI2 | True_of_IOB54B | True | x16 | N10 | N10 |
| IOB54B/GCLKC_11B/D02/MI3/BPL L_C_FB1 | I/O | 4 | none | GCLKC_11B/D02/MI3/BPL L_C_FB1 | Comp_of_IOB54A | True | x16 | P10 | P10 |
| IOB56A | I/O | 4 | none | | True_of_IOB56B | True | x16 | N12 | N12 |
| IOB56B | I/O | 4 | none | | Comp_of_IOB56A | True | x16 | P12 | P12 |
| IOB58A/D00/MISO/MI1/DIN | I/O | 4 | none | D00/MISO/MI1/DIN | True_of_IOB58B | True | x16 | N11 | N11 |
| IOB58B/MOSI/CSI_B/MI0 | I/O | 4 | none | MOSI/CSI_B/MI0 | Comp_of_IOB58A | True | x16 | P11 | P11 |
| IOB60A | I/O | 4 | none | | True_of_IOB60B | True | x16 | M12 | M12 |

注!
[1] EV版本封装。
[2] LV版本封装。

| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | MG196S ^[1] | MG196S ^[2] |
|-----------------------------|-----|------|----------|-----------------------|----------------|------|------|-----------------------|-----------------------|
| IOB62A/CCLK | I/O | 4 | none | CCLK | True_of_IOB62B | True | x16 | N13 | N13 |
| IOB62B/MODE0 | I/O | 4 | none | MODE0 | Comp_of_IOB62A | True | x16 | P13 | P13 |
| IOB64A/DONE | I/O | 4 | none | DONE | | none | none | N14 | N14 |
| IOB65A | I/O | 3 | none | | True_of_IOB65B | True | x16 | M13 | M13 |
| IOB65B/DOUT | I/O | 3 | none | DOUT | Comp_of_IOB65A | True | x16 | M14 | M14 |
| IOB75A/GCLKT_6B | I/O | 3 | DQS5/DQ5 | GCLKT_6B | True_of_IOB75B | True | x16 | L13 | L13 |
| IOB75B/GCLKC_6B | I/O | 3 | DQS5/DQ5 | GCLKC_6B | Comp_of_IOB75A | True | x16 | L14 | L14 |
| IOB85A | I/O | 3 | DQS4/DQ4 | | True_of_IOB85B | True | x16 | K13 | K13 |
| IOB85B | I/O | 3 | DQS4/DQ4 | | Comp_of_IOB85A | True | x16 | K14 | K14 |
| IOB87A | I/O | 3 | DQ4 | | True_of_IOB87B | True | x16 | J13 | J13 |
| IOB87B | I/O | 3 | DQ4 | | Comp_of_IOB87A | True | x16 | J14 | J14 |
| IOB89A/GCLKT_7/BPLL_T_IN0 | I/O | 3 | DQ4 | GCLKT_7/BPLL_T_IN0 | True_of_IOB89B | True | x16 | H11 | H11 |
| IOB89B/GCLKC_7 | I/O | 3 | DQ4 | GCLKC_7 | Comp_of_IOB89A | True | x16 | H12 | H12 |
| IOB8A/D05/SO/SS11 | I/O | 5 | none | D05/SO/SS11 | True_of_IOB8B | True | x16 | L4 | L4 |
| IOB8B/D06 | I/O | 5 | none | D06 | Comp_of_IOB8A | True | x16 | M4 | M4 |
| IOB91A/GCLKT_6A | I/O | 3 | DQ4 | GCLKT_6A | True_of_IOB91B | True | x16 | H13 | H13 |
| IOB91B/GCLKC_6A | I/O | 3 | DQ4 | GCLKC_6A | Comp_of_IOB91A | True | x16 | H14 | H14 |
| IOL25A | I/O | 6 | DQ6 | | True_of_IOL25B | True | x16 | J4 | J4 |
| IOL25B | I/O | 6 | DQ6 | | Comp_of_IOL25A | True | x16 | J3 | J3 |
| IOL27A | I/O | 6 | DQ6 | | True_of_IOL27B | True | x16 | K2 | K2 |
| IOL27B | I/O | 6 | DQ6 | | Comp_of_IOL27A | True | x16 | K1 | K1 |
| IOL29A | I/O | 6 | none | | True_of_IOL29B | True | x16 | L2 | L2 |
| IOL29B | I/O | 6 | none | | Comp_of_IOL29A | True | x16 | L1 | L1 |
| IOL31A | I/O | 6 | none | | True_of_IOL31B | True | x16 | M2 | M2 |
| IOL31B | I/O | 6 | none | | Comp_of_IOL31A | True | x16 | M1 | M1 |
| IOL3A/GCLKT_14A/LPLL0_T_IN2 | I/O | 6 | DQ7 | GCLKT_14A/LPLL0_T_IN2 | True_of_IOL3B | True | x16 | H2 | H2 |
| IOL3B/GCLKC_14/LPLL0_C_FB0 | I/O | 6 | DQ7 | GCLKC_14/LPLL0_C_FB0 | Comp_of_IOL3A | True | x16 | H1 | H1 |
| IOL5A/GCLKT_13/LPLL0_T_IN1 | I/O | 6 | DQ7 | GCLKT_13/LPLL0_T_IN1 | True_of_IOL5B | True | x16 | J2 | J2 |
| IOL5B/GCLKC_13/LPLL0_C_FB1 | I/O | 6 | DQ7 | GCLKC_13/LPLL0_C_FB1 | Comp_of_IOL5A | True | x16 | J1 | J1 |
| IOL7A | I/O | 6 | DQ7 | | True_of_IOL7B | True | x16 | F4 | F4 |
| IOL7B | I/O | 6 | DQ7 | | Comp_of_IOL7A | True | x16 | F3 | F3 |

| 注! | | | | | | | | | |
|----------------------------|-----|------|----------|----------------------|----------------|------|------|-----------------------|-----------------------|
| [1] EV版本封装。 | | | | | | | | | |
| [2] LV版本封装。 | | | | | | | | | |
| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | MG196S ^[1] | MG196S ^[2] |
| IOR12A | I/O | 2 | DQS2/DQ2 | | True_of_IOR12B | True | x16 | F11 | F11 |
| IOR12B | I/O | 2 | DQS2/DQ2 | | Comp_of_IOR12A | True | x16 | F12 | F12 |
| IOR1A/TCK | I/O | 10 | none | TCK | | none | none | B13 | B13 |
| IOR1B/TDI | I/O | 10 | none | TDI | | none | none | A13 | A13 |
| IOR29A | I/O | 2 | DQ3 | | True_of_IOR29B | True | x16 | J11 | J11 |
| IOR29B | I/O | 2 | DQ3 | | Comp_of_IOR29A | True | x16 | J12 | J12 |
| IOR31A/GCLKT_4/RPLL1_T_IN0 | I/O | 2 | DQ3 | GCLKT_4/RPLL1_T_IN0 | True_of_IOR31B | True | x16 | F13 | F13 |
| IOR31B/GCLKC_4/RPLL1_C_FB1 | I/O | 2 | DQ3 | GCLKC_4/RPLL1_C_FB1 | Comp_of_IOR31A | True | x16 | F14 | F14 |
| IOR33A/GCLKT_5/RPLL1_T_IN1 | I/O | 2 | none | GCLKT_5/RPLL1_T_IN1 | True_of_IOR33B | True | x16 | G13 | G13 |
| IOR33B/GCLKC_5/RPLL1_C_FB0 | I/O | 2 | none | GCLKC_5/RPLL1_C_FB0 | Comp_of_IOR33A | True | x16 | G14 | G14 |
| IOR35A | I/O | 11 | none | | | none | none | L12 | L12 |
| IOR3A/TMS | I/O | 10 | none | TMS | | none | none | B14 | B14 |
| IOR3B/TDO | I/O | 10 | none | TDO | | none | none | C14 | C14 |
| IOR5A | I/O | 2 | none | | True_of_IOR5B | True | x16 | C12 | C12 |
| IOR5B | I/O | 2 | none | | Comp_of_IOR5A | True | x16 | C13 | C13 |
| IOR7A | I/O | 2 | DQ2 | | True_of_IOR7B | True | x16 | D13 | D13 |
| IOR7B | I/O | 2 | DQ2 | | Comp_of_IOR7A | True | x16 | D14 | D14 |
| IOR9A | I/O | 2 | DQ2 | | True_of_IOR9B | True | x16 | E13 | E13 |
| IOR9B | I/O | 2 | DQ2 | | Comp_of_IOR9A | True | x16 | E14 | E14 |
| IOT11A | I/O | 7 | none | | True_of_IOT11B | True | x16 | D4 | D4 |
| IOT11B | I/O | 7 | none | | Comp_of_IOT11A | True | x16 | D3 | D3 |
| IOT1A/GCLKT_15/LPLL0_T_IN0 | I/O | 7 | none | GCLKT_15/LPLL0_T_IN0 | True_of_IOT1B | True | x16 | F2 | F2 |
| IOT1B/GCLKC_15 | I/O | 7 | none | GCLKC_15 | Comp_of_IOT1A | True | x16 | F1 | F1 |
| IOT29A/PUDC_B | I/O | 0 | none | PUDC_B | True_of_IOT29B | True | x16 | B2 | B2 |
| IOT29B | I/O | 0 | none | | Comp_of_IOT29A | True | x16 | A2 | A2 |
| IOT35A | I/O | 0 | none | | True_of_IOT35B | True | x16 | B3 | B3 |
| IOT35B | I/O | 0 | none | | Comp_of_IOT35A | True | x16 | A3 | A3 |
| IOT39A | I/O | 0 | none | | True_of_IOT39B | True | x16 | B4 | B4 |
| IOT39B | I/O | 0 | none | | Comp_of_IOT39A | True | x16 | A4 | A4 |
| IOT3A/GCLKT_16 | I/O | 7 | none | GCLKT_16 | True_of_IOT3B | True | x16 | G2 | G2 |
| IOT3B/GCLKC_16 | I/O | 7 | none | GCLKC_16 | Comp_of_IOT3A | True | x16 | G1 | G1 |

| 注! | | | | | | | | | |
|----------------------------|-------|------|----------|---------------------|----------------|------|-----|-----------------------|-----------------------|
| [1] EV版本封装。 | | | | | | | | | |
| [2] LV版本封装。 | | | | | | | | | |
| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | MG196S ^[1] | MG196S ^[2] |
| IOT45A | I/O | 0 | none | | True_of_IOT45B | True | x16 | B5 | B5 |
| IOT45B | I/O | 0 | none | | Comp_of_IOT45A | True | x16 | A5 | A5 |
| IOT56A/GCLKT_0/TPLL_T_IN1 | I/O | 0 | none | GCLKT_0/TPLL_T_IN1 | True_of_IOT56B | True | x16 | B6 | B6 |
| IOT56B/GCLKC_0/TPLL_C_FB1 | I/O | 0 | none | GCLKC_0/TPLL_C_FB1 | Comp_of_IOT56A | True | x16 | A6 | A6 |
| IOT58A/GCLKT_1/TPLL_T_IN2 | I/O | 0 | none | GCLKT_1/TPLL_T_IN2 | True_of_IOT58B | True | x16 | B7 | B7 |
| IOT58B/GCLKC_1/TPLL_C_FB0 | I/O | 0 | none | GCLKC_1/TPLL_C_FB0 | Comp_of_IOT58A | True | x16 | A7 | A7 |
| IOT5A | I/O | 7 | none | | True_of_IOT5B | True | x16 | E2 | E2 |
| IOT5B | I/O | 7 | none | | Comp_of_IOT5A | True | x16 | E1 | E1 |
| IOT61A/GCLKT_2/TPLL_T_IN0 | I/O | 1 | DQS0/DQ0 | GCLKT_2/TPLL_T_IN0 | True_of_IOT61B | True | x16 | D8 | D8 |
| IOT61B/GCLKC_2 | I/O | 1 | DQS0/DQ0 | GCLKC_2 | Comp_of_IOT61A | True | x16 | C8 | C8 |
| IOT63A/GCLKT_3/RPLL0_T_IN0 | I/O | 1 | DQ0 | GCLKT_3/RPLL0_T_IN0 | True_of_IOT63B | True | x16 | B8 | B8 |
| IOT63B/GCLKC_3 | I/O | 1 | DQ0 | GCLKC_3 | Comp_of_IOT63A | True | x16 | A8 | A8 |
| IOT66A | I/O | 1 | DQ0 | | True_of_IOT66B | True | x16 | B9 | B9 |
| IOT66B | I/O | 1 | DQ0 | | Comp_of_IOT66A | True | x16 | A9 | A9 |
| IOT72A | I/O | 1 | DQ0 | | True_of_IOT72B | True | x16 | B10 | B10 |
| IOT72B | I/O | 1 | DQ0 | | Comp_of_IOT72A | True | x16 | A10 | A10 |
| IOT78A | I/O | 1 | DQ1 | | True_of_IOT78B | True | x16 | B11 | B11 |
| IOT78B | I/O | 1 | DQ1 | | Comp_of_IOT78A | True | x16 | A11 | A11 |
| IOT7A | I/O | 7 | none | | True_of_IOT7B | True | x16 | D2 | D2 |
| IOT7B | I/O | 7 | none | | Comp_of_IOT7A | True | x16 | D1 | D1 |
| IOT89A/RPLL0_T_FB1 | I/O | 1 | none | RPLL0_T_FB1 | True_of_IOT89B | True | x16 | D11 | D11 |
| IOT89B | I/O | 1 | none | | Comp_of_IOT89A | True | x16 | C11 | C11 |
| IOT91A/RPLL0_T_IN1 | I/O | 1 | none | RPLL0_T_IN1 | True_of_IOT91B | True | x16 | B12 | B12 |
| IOT91B/RPLL0_C_FB0 | I/O | 1 | none | RPLL0_C_FB0 | Comp_of_IOT91A | True | x16 | A12 | A12 |
| IOT9A | I/O | 7 | none | | True_of_IOT9B | True | x16 | C1 | C1 |
| IOT9B | I/O | 7 | none | | Comp_of_IOT9A | True | x16 | B1 | B1 |
| VCC_EXT | Power | N/A | | | | | | E9 | |
| VCC_EXT | Power | N/A | | | | | | K5 | |
| VCC_EXT | Power | N/A | | | | | | K6 | |
| VCC_EXT | Power | N/A | | | | | | E5 | |
| VCC_EXT | Power | N/A | | | | | | F6 | |

注！
[1] EV版本封装。
[2] LV版本封装。

| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | MG196S ^[1] | MG196S ^[2] |
|--------------|-------|------|-----|------|--------|------|-----|-----------------------|-----------------------|
| VCC_EXT | Power | N/A | | | | | | K9 | |
| VCC_EXT | Power | N/A | | | | | | E10 | |
| VCC_EXT | Power | N/A | | | | | | K10 | |
| VCC_EXT | Power | N/A | | | | | | F5 | |
| VCC_EXT | Power | N/A | | | | | | F9 | |
| VCC_EXT | Power | N/A | | | | | | F10 | |
| VCC_EXT | Power | N/A | | | | | | J5 | |
| VCC_EXT | Power | N/A | | | | | | E6 | |
| VCC_EXT | Power | N/A | | | | | | J9 | |
| VCCIO10/VCCX | Power | N/A | | | | | | E7 | E7 |
| VCCIO10/VCCX | Power | N/A | | | | | | L7 | L7 |
| VCCIO10/VCCX | Power | N/A | | | | | | H5 | H5 |
| VCCIO10/VCCX | Power | N/A | | | | | | G10 | G10 |
| VCCIO10/VCCX | Power | N/A | | | | | | K7 | K7 |
| VCCIO10/VCCX | Power | N/A | | | | | | D7 | D7 |
| VCCIO10/VCCX | Power | N/A | | | | | | G9 | G9 |
| VCCIO10/VCCX | Power | N/A | | | | | | H6 | H6 |
| VCC/VCCC | Power | N/A | | | | | | | E9 |
| VCC/VCCC | Power | N/A | | | | | | | K5 |
| VCC/VCCC | Power | N/A | | | | | | | K6 |
| VCC/VCCC | Power | N/A | | | | | | | E5 |
| VCC/VCCC | Power | N/A | | | | | | | F6 |
| VCC/VCCC | Power | N/A | | | | | | | K9 |
| VCC/VCCC | Power | N/A | | | | | | | E10 |
| VCC/VCCC | Power | N/A | | | | | | | K10 |
| VCC/VCCC | Power | N/A | | | | | | | F5 |
| VCC/VCCC | Power | N/A | | | | | | | F9 |
| VCC/VCCC | Power | N/A | | | | | | | F10 |
| VCC/VCCC | Power | N/A | | | | | | | J5 |
| VCC/VCCC | Power | N/A | | | | | | | E6 |
| VCC/VCCC | Power | N/A | | | | | | | J9 |

| 注！ | | | | | | | | | |
|-------------|--------|------|-----|------|--------|------|-----|-----------------------|-----------------------|
| [1] EV版本封装。 | | | | | | | | | |
| [2] LV版本封装。 | | | | | | | | | |
| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | MG196S ^[1] | MG196S ^[2] |
| VCC_REG | Power | N/A | | | | | | J6 | J6 |
| VCCIO0 | Power | N/A | | | | | | C4 | C4 |
| VCCIO0 | Power | N/A | | | | | | C5 | C5 |
| VCCIO1 | Power | N/A | | | | | | C10 | C10 |
| VCCIO1 | Power | N/A | | | | | | C9 | C9 |
| VCCIO2 | Power | N/A | | | | | | E12 | E12 |
| VCCIO2 | Power | N/A | | | | | | G11 | G11 |
| VCCIO2 | Power | N/A | | | | | | D12 | D12 |
| VCCIO3 | Power | N/A | | | | | | G12 | G12 |
| VCCIO3 | Power | N/A | | | | | | K12 | K12 |
| VCCIO3 | Power | N/A | | | | | | K11 | K11 |
| VCCIO4 | Power | N/A | | | | | | M9 | M9 |
| VCCIO4 | Power | N/A | | | | | | M10 | M10 |
| VCCIO5 | Power | N/A | | | | | | M6 | M6 |
| VCCIO5 | Power | N/A | | | | | | M5 | M5 |
| VCCIO6 | Power | N/A | | | | | | G3 | G3 |
| VCCIO6 | Power | N/A | | | | | | E3 | E3 |
| VCCIO6 | Power | N/A | | | | | | E4 | E4 |
| VCCIO7 | Power | N/A | | | | | | K3 | K3 |
| VCCIO7 | Power | N/A | | | | | | H3 | H3 |
| VCCIO7 | Power | N/A | | | | | | K4 | K4 |
| VQPS | Power | N/A | | | | | | L11 | L11 |
| VSS | Ground | N/A | | | | | | A1 | A1 |
| VSS | Ground | N/A | | | | | | A14 | A14 |
| VSS | Ground | N/A | | | | | | C2 | C2 |
| VSS | Ground | N/A | | | | | | C3 | C3 |
| VSS | Ground | N/A | | | | | | C6 | C6 |
| VSS | Ground | N/A | | | | | | C7 | C7 |
| VSS | Ground | N/A | | | | | | D10 | D10 |
| VSS | Ground | N/A | | | | | | D5 | D5 |
| VSS | Ground | N/A | | | | | | D6 | D6 |

| 注! | | | | | | | | | |
|-------------|--------|------|-----|------|--------|------|-----|-----------------------|-----------------------|
| [1] EV版本封装。 | | | | | | | | | |
| [2] LV版本封装。 | | | | | | | | | |
| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | MG196S ^[1] | MG196S ^[2] |
| VSS | Ground | N/A | | | | | | D9 | D9 |
| VSS | Ground | N/A | | | | | | E11 | E11 |
| VSS | Ground | N/A | | | | | | E8 | E8 |
| VSS | Ground | N/A | | | | | | F7 | F7 |
| VSS | Ground | N/A | | | | | | F8 | F8 |
| VSS | Ground | N/A | | | | | | G5 | G5 |
| VSS | Ground | N/A | | | | | | G6 | G6 |
| VSS | Ground | N/A | | | | | | G7 | G7 |
| VSS | Ground | N/A | | | | | | G8 | G8 |
| VSS | Ground | N/A | | | | | | H10 | H10 |
| VSS | Ground | N/A | | | | | | H4 | H4 |
| VSS | Ground | N/A | | | | | | H7 | H7 |
| VSS | Ground | N/A | | | | | | H8 | H8 |
| VSS | Ground | N/A | | | | | | H9 | H9 |
| VSS | Ground | N/A | | | | | | J10 | J10 |
| VSS | Ground | N/A | | | | | | J7 | J7 |
| VSS | Ground | N/A | | | | | | J8 | J8 |
| VSS | Ground | N/A | | | | | | K8 | K8 |
| VSS | Ground | N/A | | | | | | L10 | L10 |
| VSS | Ground | N/A | | | | | | L3 | L3 |
| VSS | Ground | N/A | | | | | | L5 | L5 |
| VSS | Ground | N/A | | | | | | L6 | L6 |
| VSS | Ground | N/A | | | | | | L9 | L9 |
| VSS | Ground | N/A | | | | | | M11 | M11 |
| VSS | Ground | N/A | | | | | | M3 | M3 |
| VSS | Ground | N/A | | | | | | M7 | M7 |
| VSS | Ground | N/A | | | | | | P1 | P1 |
| VSS | Ground | N/A | | | | | | P14 | P14 |
| VSS | Ground | N/A | | | | | | G4 | G4 |

| 注! | | | | | | | | | |
|---|-----|------|------|---------------------------------|----------------|------|------|-----------------------|-----------------------|
| [1] EV版本封装。 | | | | | | | | | |
| [2] LV版本封装。 | | | | | | | | | |
| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | UG225S ^[1] | UG225S ^[2] |
| IOB10A/D03/SSPI_CN | I/O | 5 | none | D03/SSPI_CS_N | True_of_IOB10B | True | x16 | P5 | P5 |
| IOB10B/D04/SI/SSI0 | I/O | 5 | none | D04/SI/SSI0 | Comp_of_IOB10A | True | x16 | R5 | R5 |
| IOB12A/GCLKT_10B/D07/SSPI_WP PN/SSI2 | I/O | 5 | none | GCLKT_10B/D07/SSPI_WP N/SSI2 | True_of_IOB12B | True | x16 | N6 | N6 |
| IOB12B/GCLKC_10B/RDWR_B/LP LL1_C_IN1 | I/O | 5 | none | GCLKC_10B/RDWR_B/LP L1_C_IN1 | Comp_of_IOB12A | True | x16 | R6 | R6 |
| IOB14A/SSPI_CLK | I/O | 5 | none | SSPI_CLK | True_of_IOB14B | True | x16 | N4 | N4 |
| IOB14B/CLKHOLD_N/SSI3 | I/O | 5 | none | CLKHOLD_N/SSI3 | Comp_of_IOB14A | True | x16 | R4 | R4 |
| IOB1A/RECONFIGN | I/O | 5 | none | RECONFIGN | | none | none | R2 | R2 |
| IOB26A/GCLKT_9B | I/O | 5 | none | GCLKT_9B | True_of_IOB26B | True | x16 | L7 | L7 |
| IOB26B/GCLKC_9B | I/O | 5 | none | GCLKC_9B | Comp_of_IOB26A | True | x16 | M6 | M6 |
| IOB29A/GCLKT_11A | I/O | 4 | none | GCLKT_11A | True_of_IOB29B | True | x16 | P7 | P7 |
| IOB29B/GCLKC_11A | I/O | 4 | none | GCLKC_11A | Comp_of_IOB29A | True | x16 | R7 | R7 |
| IOB31A/GCLKT_10A/D14 | I/O | 4 | none | GCLKT_10A/D14 | True_of_IOB31B | True | x16 | K8 | K8 |
| IOB31B/GCLKC_10A/D15/BPLL_C _FB0 | I/O | 4 | none | GCLKC_10A/D15/BPLL_C_ FB0 | Comp_of_IOB31A | True | x16 | L8 | L8 |
| IOB33A/GCLKT_9A/D13/BPLL_T_I N1 | I/O | 4 | none | GCLKT_9A/D13/BPLL_T_I N1 | True_of_IOB33B | True | x16 | M8 | M8 |
| IOB33B/GCLKC_9A/EMCCLK | I/O | 4 | none | GCLKC_9A/EMCCLK | Comp_of_IOB33A | True | x16 | N7 | N7 |
| IOB35A/GCLKT_8 | I/O | 4 | none | GCLKT_8 | True_of_IOB35B | True | x16 | N8 | N8 |
| IOB35B/GCLKC_8 | I/O | 4 | none | GCLKC_8 | Comp_of_IOB35A | True | x16 | R8 | R8 |
| IOB37A/READY | I/O | 4 | none | READY | True_of_IOB37B | True | x16 | P3 | P3 |
| IOB37B/MCS_N/CSO_B | I/O | 4 | none | MCS_N/CSO_B | Comp_of_IOB37A | True | x16 | R3 | R3 |
| IOB45A | I/O | 4 | none | | True_of_IOB45B | True | x16 | P9 | P9 |
| IOB45B | I/O | 4 | none | | Comp_of_IOB45A | True | x16 | R9 | R9 |
| IOB48A | I/O | 4 | none | | True_of_IOB48B | True | x16 | M9 | M9 |
| IOB48B | I/O | 4 | none | | Comp_of_IOB48A | True | x16 | N9 | N9 |
| IOB4A/D08/SDA | I/O | 5 | none | D08/SDA | True_of_IOB4B | True | x16 | M5 | M5 |
| IOB4B/D09/SCL/LPLL1_C_FB0 | I/O | 5 | none | D09/SCL/LPLL1_C_FB0 | Comp_of_IOB4A | True | x16 | N5 | N5 |
| IOB50A/D11 | I/O | 4 | none | D11 | True_of_IOB50B | True | x16 | L9 | L9 |
| IOB50B/D12 | I/O | 4 | none | D12 | Comp_of_IOB50A | True | x16 | M10 | M10 |

注!
[1] EV版本封装。
[2] LV版本封装。

| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | UG225S ^[1] | UG225S ^[2] |
|-------------------------------------|-----|------|------------|------------------------------|----------------|------|------|-----------------------|-----------------------|
| IOB52A/MODE1 | I/O | 4 | none | MODE1 | True_of_IOB52B | True | x16 | N10 | N10 |
| IOB52B/D10 | I/O | 4 | none | D10 | Comp_of_IOB52A | True | x16 | R10 | R10 |
| IOB54A/GCLKT_11B/D01/MI2 | I/O | 4 | none | GCLKT_11B/D01/MI2 | True_of_IOB54B | True | x16 | M11 | M11 |
| IOB54B/GCLKC_11B/D02/MI3/BPLL_C_FB1 | I/O | 4 | none | GCLKC_11B/D02/MI3/BPLL_C_FB1 | Comp_of_IOB54A | True | x16 | N11 | N11 |
| IOB56A | I/O | 4 | none | | True_of_IOB56B | True | x16 | P13 | P13 |
| IOB56B | I/O | 4 | none | | Comp_of_IOB56A | True | x16 | R13 | R13 |
| IOB58A/D00/MISO/MI1/DIN | I/O | 4 | none | D00/MISO/MI1/DIN | True_of_IOB58B | True | x16 | P11 | P11 |
| IOB58B/MOSI/CSI_B/MI0 | I/O | 4 | none | MOSI/CSI_B/MI0 | Comp_of_IOB58A | True | x16 | R11 | R11 |
| IOB60A | I/O | 4 | none | | True_of_IOB60B | True | x16 | L10 | L10 |
| IOB62A/CCLK | I/O | 4 | none | CCLK | True_of_IOB62B | True | x16 | N12 | N12 |
| IOB62B/MODE0 | I/O | 4 | none | MODE0 | Comp_of_IOB62A | True | x16 | R12 | R12 |
| IOB64A/DONE | I/O | 4 | none | DONE | | none | none | R14 | R14 |
| IOB65A | I/O | 3 | none | | True_of_IOB65B | True | x16 | P14 | P14 |
| IOB65B/DOUT | I/O | 3 | none | DOUT | Comp_of_IOB65A | True | x16 | P15 | P15 |
| IOB75A/GCLKT_6B | I/O | 3 | DQS5/DQ5 | GCLKT_6B | True_of_IOB75B | True | x16 | K12 | K12 |
| IOB75B/GCLKC_6B | I/O | 3 | DQS5/DQ5 | GCLKC_6B | Comp_of_IOB75A | True | x16 | L12 | L12 |
| IOB79A | I/O | 3 | DQ5/DQS_45 | | True_of_IOB79B | True | x16 | K10 | K10 |
| IOB79B | I/O | 3 | DQ5/DQS_45 | | Comp_of_IOB79A | True | x16 | K11 | K11 |
| IOB81A | I/O | 3 | DQ4 | | True_of_IOB81B | True | x16 | N14 | N14 |
| IOB81B | I/O | 3 | DQ4 | | Comp_of_IOB81A | True | x16 | N15 | N15 |
| IOB83A | I/O | 3 | DQ4 | | True_of_IOB83B | True | x16 | M13 | M13 |
| IOB83B | I/O | 3 | DQ4 | | Comp_of_IOB83A | True | x16 | M15 | M15 |
| IOB85A | I/O | 3 | DQS4/DQ4 | | True_of_IOB85B | True | x16 | L14 | L14 |
| IOB85B | I/O | 3 | DQS4/DQ4 | | Comp_of_IOB85A | True | x16 | L15 | L15 |
| IOB87A | I/O | 3 | DQ4 | | True_of_IOB87B | True | x16 | K13 | K13 |
| IOB87B | I/O | 3 | DQ4 | | Comp_of_IOB87A | True | x16 | K15 | K15 |
| IOB89A/GCLKT_7/BPLL_T_IN0 | I/O | 3 | DQ4 | GCLKT_7/BPLL_T_IN0 | True_of_IOB89B | True | x16 | J14 | J14 |
| IOB89B/GCLKC_7 | I/O | 3 | DQ4 | GCLKC_7 | Comp_of_IOB89A | True | x16 | J15 | J15 |

注！
[1] EV版本封装。
[2] LV版本封装。

| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | UG225S ^[1] | UG225S ^[2] |
|-----------------------------|-----|------|----------|-----------------------|----------------|------|-----|-----------------------|-----------------------|
| I0B8A/D05/SO/SS11 | I/O | 5 | none | D05/SO/SS11 | True_of_I0B8B | True | x16 | L6 | L6 |
| I0B8B/D06 | I/O | 5 | none | D06 | Comp_of_I0B8A | True | x16 | L5 | L5 |
| I0L12A | I/O | 6 | DQ7 | | True_of_I0L12B | True | x16 | M3 | M3 |
| I0L12B | I/O | 6 | DQ7 | | Comp_of_I0L12A | True | x16 | M1 | M1 |
| I0L14A/LPLL1_T_IN0 | I/O | 6 | DQ7 | LPLL1_T_IN0 | True_of_I0L14B | True | x16 | N2 | N2 |
| I0L14B | I/O | 6 | DQ7 | | Comp_of_I0L14A | True | x16 | N1 | N1 |
| I0L18A | I/O | 6 | DQ6 | | True_of_I0L18B | True | x16 | G5 | G5 |
| I0L18B | I/O | 6 | DQ6 | | Comp_of_I0L18A | True | x16 | G3 | G3 |
| I0L21A | I/O | 6 | DQS6/DQ6 | | True_of_I0L21B | True | x16 | H6 | H6 |
| I0L21B | I/O | 6 | DQS6/DQ6 | | Comp_of_I0L21A | True | x16 | H5 | H5 |
| I0L23A | I/O | 6 | DQ6 | | True_of_I0L23B | True | x16 | K5 | K5 |
| I0L23B | I/O | 6 | DQ6 | | Comp_of_I0L23A | True | x16 | J4 | J4 |
| I0L25A | I/O | 6 | DQ6 | | True_of_I0L25B | True | x16 | J5 | J5 |
| I0L25B | I/O | 6 | DQ6 | | Comp_of_I0L25A | True | x16 | H4 | H4 |
| I0L29A | I/O | 6 | none | | True_of_I0L29B | True | x16 | M4 | M4 |
| I0L29B | I/O | 6 | none | | Comp_of_I0L29A | True | x16 | L3 | L3 |
| I0L31A | I/O | 6 | none | | True_of_I0L31B | True | x16 | P2 | P2 |
| I0L31B | I/O | 6 | none | | Comp_of_I0L31A | True | x16 | P1 | P1 |
| I0L3A/GCLKT_14A/LPLL0_T_IN2 | I/O | 6 | DQ7 | GCLKT_14A/LPLL0_T_IN2 | True_of_I0L3B | True | x16 | J2 | J2 |
| I0L3B/GCLKC_14/LPLL0_C_FB0 | I/O | 6 | DQ7 | GCLKC_14/LPLL0_C_FB0 | Comp_of_I0L3A | True | x16 | J1 | J1 |
| I0L5A/GCLKT_13/LPLL0_T_IN1 | I/O | 6 | DQ7 | GCLKT_13/LPLL0_T_IN1 | True_of_I0L5B | True | x16 | K4 | K4 |
| I0L5B/GCLKC_13/LPLL0_C_FB1 | I/O | 6 | DQ7 | GCLKC_13/LPLL0_C_FB1 | Comp_of_I0L5A | True | x16 | J3 | J3 |
| I0L7A | I/O | 6 | DQ7 | | True_of_I0L7B | True | x16 | K3 | K3 |
| I0L7B | I/O | 6 | DQ7 | | Comp_of_I0L7A | True | x16 | K1 | K1 |
| I0L9A | I/O | 6 | DQS7/DQ7 | | True_of_I0L9B | True | x16 | L2 | L2 |
| I0L9B | I/O | 6 | DQS7/DQ7 | | Comp_of_I0L9A | True | x16 | L1 | L1 |
| I0R12A | I/O | 2 | DQS2/DQ2 | | True_of_I0R12B | True | x16 | D13 | D13 |
| I0R12B | I/O | 2 | DQS2/DQ2 | | Comp_of_I0R12A | True | x16 | D15 | D15 |
| I0R14A | I/O | 2 | DQ2 | | True_of_I0R14B | True | x16 | E14 | E14 |
| I0R14B | I/O | 2 | DQ2 | | Comp_of_I0R14A | True | x16 | E15 | E15 |
| I0R16A | I/O | 2 | DQ2 | | True_of_I0R16B | True | x16 | F13 | F13 |

| 注! | | | | | | | | | |
|----------------------------|-----|------|------------|---------------------|----------------|------|------|-----------------------|-----------------------|
| [1] EV版本封装。 | | | | | | | | | |
| [2] LV版本封装。 | | | | | | | | | |
| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | UG225S ^[1] | UG225S ^[2] |
| IOR16B | I/O | 2 | DQ2 | | Comp_of_IOR16A | True | x16 | F15 | F15 |
| IOR18A | I/O | 2 | DQ2/DQS_23 | | True_of_IOR18B | True | x16 | G11 | G11 |
| IOR18B | I/O | 2 | DQ2/DQS_23 | | Comp_of_IOR18A | True | x16 | G12 | G12 |
| IOR1A/TCK | I/O | 10 | none | TCK | | none | none | A14 | A14 |
| IOR1B/TDI | I/O | 10 | none | TDI | | none | none | E10 | E10 |
| IOR20A | I/O | 2 | DQ3 | | True_of_IOR20B | True | x16 | H12 | H12 |
| IOR20B | I/O | 2 | DQ3 | | Comp_of_IOR20A | True | x16 | G13 | G13 |
| IOR22A | I/O | 2 | DQ3 | | True_of_IOR22B | True | x16 | H10 | H10 |
| IOR22B | I/O | 2 | DQ3 | | Comp_of_IOR22A | True | x16 | H11 | H11 |
| IOR26A | I/O | 2 | DQS3/DQ3 | | True_of_IOR26B | True | x16 | J11 | J11 |
| IOR26B | I/O | 2 | DQS3/DQ3 | | Comp_of_IOR26A | True | x16 | J13 | J13 |
| IOR31A/GCLKT_4/RPLL1_T_IN0 | I/O | 2 | DQ3 | GCLKT_4/RPLL1_T_IN0 | True_of_IOR31B | True | x16 | G14 | G14 |
| IOR31B/GCLKC_4/RPLL1_C_FB1 | I/O | 2 | DQ3 | GCLKC_4/RPLL1_C_FB1 | Comp_of_IOR31A | True | x16 | G15 | G15 |
| IOR33A/GCLKT_5/RPLL1_T_IN1 | I/O | 2 | none | GCLKT_5/RPLL1_T_IN1 | True_of_IOR33B | True | x16 | H13 | H13 |
| IOR33B/GCLKC_5/RPLL1_C_FB0 | I/O | 2 | none | GCLKC_5/RPLL1_C_FB0 | Comp_of_IOR33A | True | x16 | H15 | H15 |
| IOR35A | I/O | 11 | none | | | none | none | L13 | L13 |
| IOR3A/TMS | I/O | 10 | none | TMS | | none | none | E13 | E13 |
| IOR3B/TDO | I/O | 10 | none | TDO | | none | none | D12 | D12 |
| IOR5A | I/O | 2 | none | | True_of_IOR5B | True | x16 | F11 | F11 |
| IOR5B | I/O | 2 | none | | Comp_of_IOR5A | True | x16 | F12 | F12 |
| IOR7A | I/O | 2 | DQ2 | | True_of_IOR7B | True | x16 | B14 | B14 |
| IOR7B | I/O | 2 | DQ2 | | Comp_of_IOR7A | True | x16 | B15 | B15 |
| IOR9A | I/O | 2 | DQ2 | | True_of_IOR9B | True | x16 | C14 | C14 |
| IOR9B | I/O | 2 | DQ2 | | Comp_of_IOR9A | True | x16 | C15 | C15 |
| IOT11A | I/O | 7 | none | | True_of_IOT11B | True | x16 | D3 | D3 |
| IOT11B | I/O | 7 | none | | Comp_of_IOT11A | True | x16 | D1 | D1 |
| IOT13A | I/O | 7 | none | | True_of_IOT13B | True | x16 | C2 | C2 |
| IOT13B | I/O | 7 | none | | Comp_of_IOT13A | True | x16 | C1 | C1 |
| IOT15A | I/O | 7 | none | | True_of_IOT15B | True | x16 | D4 | D4 |

注！
[1] EV版本封装。
[2] LV版本封装。

| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | UG225S ^[1] | UG225S ^[2] |
|----------------------------|-----|------|------|----------------------|----------------|------|-----|-----------------------|-----------------------|
| IOT15B | I/O | 7 | none | | Comp_of_IOT15A | True | x16 | E3 | E3 |
| IOT17A | I/O | 7 | none | | True_of_IOT17B | True | x16 | E5 | E5 |
| IOT17B | I/O | 7 | none | | Comp_of_IOT17A | True | x16 | E4 | E4 |
| IOT1A/GCLKT_15/LPLL0_T_IN0 | I/O | 7 | none | GCLKT_15/LPLL0_T_IN0 | True_of_IOT1B | True | x16 | G2 | G2 |
| IOT1B/GCLKC_15 | I/O | 7 | none | GCLKC_15 | Comp_of_IOT1A | True | x16 | G1 | G1 |
| IOT29A/PUDC_B | I/O | 0 | none | PUDC_B | True_of_IOT29B | True | x16 | B2 | B2 |
| IOT29B | I/O | 0 | none | | Comp_of_IOT29A | True | x16 | A2 | A2 |
| IOT33A | I/O | 0 | none | | True_of_IOT33B | True | x16 | B3 | B3 |
| IOT33B | I/O | 0 | none | | Comp_of_IOT33A | True | x16 | A3 | A3 |
| IOT37A | I/O | 0 | none | | True_of_IOT37B | True | x16 | C4 | C4 |
| IOT37B | I/O | 0 | none | | Comp_of_IOT37A | True | x16 | A4 | A4 |
| IOT3A/GCLKT_16 | I/O | 7 | none | GCLKT_16 | True_of_IOT3B | True | x16 | H3 | H3 |
| IOT3B/GCLKC_16 | I/O | 7 | none | GCLKC_16 | Comp_of_IOT3A | True | x16 | H1 | H1 |
| IOT41A | I/O | 0 | none | | True_of_IOT41B | True | x16 | D5 | D5 |
| IOT41B | I/O | 0 | none | | Comp_of_IOT41A | True | x16 | C5 | C5 |
| IOT45A | I/O | 0 | none | | True_of_IOT45B | True | x16 | E6 | E6 |
| IOT45B | I/O | 0 | none | | Comp_of_IOT45A | True | x16 | D6 | D6 |
| IOT48A | I/O | 0 | none | | True_of_IOT48B | True | x16 | B5 | B5 |
| IOT48B | I/O | 0 | none | | Comp_of_IOT48A | True | x16 | A5 | A5 |
| IOT50A | I/O | 0 | none | | True_of_IOT50B | True | x16 | C6 | C6 |
| IOT50B | I/O | 0 | none | | Comp_of_IOT50A | True | x16 | A6 | A6 |
| IOT52A | I/O | 0 | none | | True_of_IOT52B | True | x16 | D7 | D7 |
| IOT52B | I/O | 0 | none | | Comp_of_IOT52A | True | x16 | C7 | C7 |
| IOT54A | I/O | 0 | none | | True_of_IOT54B | True | x16 | F8 | F8 |
| IOT54B | I/O | 0 | none | | Comp_of_IOT54A | True | x16 | E8 | E8 |
| IOT56A/GCLKT_0/TPLL_T_IN1 | I/O | 0 | none | GCLKT_0/TPLL_T_IN1 | True_of_IOT56B | True | x16 | E7 | E7 |
| IOT56B/GCLKC_0/TPLL_C_FB1 | I/O | 0 | none | GCLKC_0/TPLL_C_FB1 | Comp_of_IOT56A | True | x16 | D8 | D8 |
| IOT58A/GCLKT_1/TPLL_T_IN2 | I/O | 0 | none | GCLKT_1/TPLL_T_IN2 | True_of_IOT58B | True | x16 | B7 | B7 |
| IOT58B/GCLKC_1/TPLL_C_FB0 | I/O | 0 | none | GCLKC_1/TPLL_C_FB0 | Comp_of_IOT58A | True | x16 | A7 | A7 |
| IOT5A | I/O | 7 | none | | True_of_IOT5B | True | x16 | F5 | F5 |
| IOT5B | I/O | 7 | none | | Comp_of_IOT5A | True | x16 | F4 | F4 |

注！
[1] EV版本封装。
[2] LV版本封装。

| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | UG225S ^[1] | UG225S ^[2] |
|----------------------------|-------|------|----------|---------------------|----------------|------|-----|-----------------------|-----------------------|
| IOT61A/GCLKT_2/TPLL_T_IN0 | I/O | 1 | DQS0/DQ0 | GCLKT_2/TPLL_T_IN0 | True_of_IOT61B | True | x16 | C8 | C8 |
| IOT61B/GCLKC_2 | I/O | 1 | DQS0/DQ0 | GCLKC_2 | Comp_of_IOT61A | True | x16 | A8 | A8 |
| IOT63A/GCLKT_3/RPLL0_T_IN0 | I/O | 1 | DQ0 | GCLKT_3/RPLL0_T_IN0 | True_of_IOT63B | True | x16 | B9 | B9 |
| IOT63B/GCLKC_3 | I/O | 1 | DQ0 | GCLKC_3 | Comp_of_IOT63A | True | x16 | A9 | A9 |
| IOT66A | I/O | 1 | DQ0 | | True_of_IOT66B | True | x16 | F10 | F10 |
| IOT66B | I/O | 1 | DQ0 | | Comp_of_IOT66A | True | x16 | E9 | E9 |
| IOT68A | I/O | 1 | DQ0 | | True_of_IOT68B | True | x16 | C10 | C10 |
| IOT68B | I/O | 1 | DQ0 | | Comp_of_IOT68A | True | x16 | A10 | A10 |
| IOT70A | I/O | 1 | DQ0 | | True_of_IOT70B | True | x16 | D10 | D10 |
| IOT70B | I/O | 1 | DQ0 | | Comp_of_IOT70A | True | x16 | C9 | C9 |
| IOT72A | I/O | 1 | DQ0 | | True_of_IOT72B | True | x16 | B11 | B11 |
| IOT72B | I/O | 1 | DQ0 | | Comp_of_IOT72A | True | x16 | A11 | A11 |
| IOT7A | I/O | 7 | none | | True_of_IOT7B | True | x16 | F3 | F3 |
| IOT7B | I/O | 7 | none | | Comp_of_IOT7A | True | x16 | F1 | F1 |
| IOT83A | I/O | 1 | DQ1 | | True_of_IOT83B | True | x16 | D11 | D11 |
| IOT83B | I/O | 1 | DQ1 | | Comp_of_IOT83A | True | x16 | C11 | C11 |
| IOT89A/RPLL0_T_FB1 | I/O | 1 | none | RPLL0_T_FB1 | True_of_IOT89B | True | x16 | C12 | C12 |
| IOT89B | I/O | 1 | none | | Comp_of_IOT89A | True | x16 | A12 | A12 |
| IOT91A/RPLL0_T_IN1 | I/O | 1 | none | RPLL0_T_IN1 | True_of_IOT91B | True | x16 | B13 | B13 |
| IOT91B/RPLL0_C_FB0 | I/O | 1 | none | RPLL0_C_FB0 | Comp_of_IOT91A | True | x16 | A13 | A13 |
| IOT9A | I/O | 7 | none | | True_of_IOT9B | True | x16 | E2 | E2 |
| IOT9B | I/O | 7 | none | | Comp_of_IOT9A | True | x16 | E1 | E1 |
| VCC_EXT | Power | N/A | | | | | | K7 | |
| VCC_EXT | Power | N/A | | | | | | G8 | |
| VCC_EXT | Power | N/A | | | | | | H9 | |
| VCC_EXT | Power | N/A | | | | | | J8 | |
| VCC_EXT | Power | N/A | | | | | | F9 | |
| VCC_EXT | Power | N/A | | | | | | J10 | |
| VCCIO10/VCCX | Power | N/A | | | | | | F7 | F7 |
| VCCIO10/VCCX | Power | N/A | | | | | | M12 | M12 |
| VCCIO10/VCCX | Power | N/A | | | | | | E12 | E12 |

| 注！ | | | | | | | | | |
|--------------|--------|------|-----|------|--------|------|-----|-----------------------|-----------------------|
| [1] EV版本封装。 | | | | | | | | | |
| [2] LV版本封装。 | | | | | | | | | |
| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | UG225S ^[1] | UG225S ^[2] |
| VCCIO10/VCCX | Power | N/A | | | | | | J6 | J6 |
| VCCIO10/VCCX | Power | N/A | | | | | | B1 | B1 |
| VCCIO10/VCCX | Power | N/A | | | | | | K9 | K9 |
| VCCIO10/VCCX | Power | N/A | | | | | | G10 | G10 |
| VCCIO10/VCCX | Power | N/A | | | | | | L4 | L4 |
| NC | N/A | N/A | | | | | | G6 | G6 |
| VCC/VCCC | Power | N/A | | | | | | | K7 |
| VCC/VCCC | Power | N/A | | | | | | | G8 |
| VCC/VCCC | Power | N/A | | | | | | | H9 |
| VCC/VCCC | Power | N/A | | | | | | | J8 |
| VCC/VCCC | Power | N/A | | | | | | | F9 |
| VCC/VCCC | Power | N/A | | | | | | | J10 |
| VCC_REG | Power | N/A | | | | | | H7 | H7 |
| VCCIO0 | Power | N/A | | | | | | B8 | B8 |
| VCCIO0 | Power | N/A | | | | | | B4 | B4 |
| VCCIO1 | Power | N/A | | | | | | D9 | D9 |
| VCCIO1 | Power | N/A | | | | | | B12 | B12 |
| VCCIO2 | Power | N/A | | | | | | H14 | H14 |
| VCCIO2 | Power | N/A | | | | | | D14 | D14 |
| VCCIO3 | Power | N/A | | | | | | M14 | M14 |
| VCCIO3 | Power | N/A | | | | | | J12 | J12 |
| VCCIO4 | Power | N/A | | | | | | P8 | P8 |
| VCCIO4 | Power | N/A | | | | | | P12 | P12 |
| VCCIO5 | Power | N/A | | | | | | M7 | M7 |
| VCCIO5 | Power | N/A | | | | | | P4 | P4 |
| VCCIO6 | Power | N/A | | | | | | M2 | M2 |
| VCCIO6 | Power | N/A | | | | | | H2 | H2 |
| VCCIO7 | Power | N/A | | | | | | G4 | G4 |
| VCCIO7 | Power | N/A | | | | | | D2 | D2 |
| VQPS | Power | N/A | | | | | | L11 | L11 |
| VSS | Ground | N/A | | | | | | A1 | A1 |

注！
[1] EV版本封装。
[2] LV版本封装。

| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | UG225S ^[1] | UG225S ^[2] |
|------|--------|------|-----|------|--------|------|-----|-----------------------|-----------------------|
| VSS | Ground | N/A | | | | | | A15 | A15 |
| VSS | Ground | N/A | | | | | | B10 | B10 |
| VSS | Ground | N/A | | | | | | B6 | B6 |
| VSS | Ground | N/A | | | | | | C13 | C13 |
| VSS | Ground | N/A | | | | | | C3 | C3 |
| VSS | Ground | N/A | | | | | | E11 | E11 |
| VSS | Ground | N/A | | | | | | F14 | F14 |
| VSS | Ground | N/A | | | | | | F2 | F2 |
| VSS | Ground | N/A | | | | | | F6 | F6 |
| VSS | Ground | N/A | | | | | | G7 | G7 |
| VSS | Ground | N/A | | | | | | G9 | G9 |
| VSS | Ground | N/A | | | | | | H8 | H8 |
| VSS | Ground | N/A | | | | | | J7 | J7 |
| VSS | Ground | N/A | | | | | | J9 | J9 |
| VSS | Ground | N/A | | | | | | K14 | K14 |
| VSS | Ground | N/A | | | | | | K2 | K2 |
| VSS | Ground | N/A | | | | | | K6 | K6 |
| VSS | Ground | N/A | | | | | | N13 | N13 |
| VSS | Ground | N/A | | | | | | N3 | N3 |
| VSS | Ground | N/A | | | | | | P10 | P10 |
| VSS | Ground | N/A | | | | | | P6 | P6 |
| VSS | Ground | N/A | | | | | | R1 | R1 |
| VSS | Ground | N/A | | | | | | R15 | R15 |

| 注！ | | | | | | | | |
|---|-----|------|------------|----------------------------------|----------------|------|------|----------------------|
| [1] EV版本封装。 | | | | | | | | |
| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | LQ100 ^[1] |
| IOB12A/GCLKT_10B/D07/SSPI_W PN/SSI2 | I/O | 5 | none | GCLKT_10B/D07/SSPI_W PN/SSI2 | True_of_IOB12B | True | x16 | 52 |
| IOB12B/GCLKC_10B/RDWR_B/LP LL1_C_IN1 | I/O | 5 | none | GCLKC_10B/RDWR_B/LP LL1_C_IN1 | Comp_of_IOB12A | True | x16 | 51 |
| IOB26A/GCLKT_9B | I/O | 5 | none | GCLKT_9B | True_of_IOB26B | True | x16 | 54 |
| IOB26B/GCLKC_9B | I/O | 5 | none | GCLKC_9B | Comp_of_IOB26A | True | x16 | 53 |
| IOB33A/GCLKT_9A/D13/BPLL_T_I N1 | I/O | 4 | none | GCLKT_9A/D13/BPLL_T_I N1 | True_of_IOB33B | True | x16 | 57 |
| IOB33B/GCLKC_9A/EMCCLK | I/O | 4 | none | GCLKC_9A/EMCCLK | Comp_of_IOB33A | True | x16 | 58 |
| IOB37A/READY | I/O | 4 | none | READY | True_of_IOB37B | True | x16 | 59 |
| IOB37B/MCS_N/CSO_B | I/O | 4 | none | MCS_N/CSO_B | Comp_of_IOB37A | True | x16 | 60 |
| IOB52A/MODE1 | I/O | 4 | none | MODE1 | True_of_IOB52B | True | x16 | 61 |
| IOB52B/D10 | I/O | 4 | none | D10 | Comp_of_IOB52A | True | x16 | 62 |
| IOB54A/GCLKT_11B/D01/MI2 | I/O | 4 | none | GCLKT_11B/D01/MI2 | True_of_IOB54B | True | x16 | 63 |
| IOB54B/GCLKC_11B/D02/MI3/BP LL_C_FB1 | I/O | 4 | none | GCLKC_11B/D02/MI3/BP LL_C_FB1 | Comp_of_IOB54A | True | x16 | 64 |
| IOB58A/D00/MISO/MI1/DIN | I/O | 4 | none | D00/MISO/MI1/DIN | True_of_IOB58B | True | x16 | 65 |
| IOB58B/MOSI/CSI_B/MI0 | I/O | 4 | none | MOSI/CSI_B/MI0 | Comp_of_IOB58A | True | x16 | 66 |
| IOB62A/CCLK | I/O | 4 | none | CCLK | True_of_IOB62B | True | x16 | 67 |
| IOB62B/MODE0 | I/O | 4 | none | MODE0 | Comp_of_IOB62A | True | x16 | 68 |
| IOB64A/DONE | I/O | 4 | none | DONE | | none | none | 69 |
| IOB65A | I/O | 3 | none | | True_of_IOB65B | True | x16 | 70 |
| IOB65B/DOUT | I/O | 3 | none | DOUT | Comp_of_IOB65A | True | x16 | 71 |
| IOB91A/GCLKT_6A | I/O | 3 | DQ4 | GCLKT_6A | True_of_IOB91B | True | x16 | 74 |
| IOB91B/GCLKC_6A | I/O | 3 | DQ4 | GCLKC_6A | Comp_of_IOB91A | True | x16 | 75 |
| IOL12A | I/O | 6 | DQ7 | | True_of_IOL12B | True | x16 | 35 |
| IOL12B | I/O | 6 | DQ7 | | Comp_of_IOL12A | True | x16 | 36 |
| IOL14A/LPLL1_T_IN0 | I/O | 6 | DQ7 | LPLL1_T_IN0 | True_of_IOL14B | True | x16 | 37 |
| IOL14B | I/O | 6 | DQ7 | | Comp_of_IOL14A | True | x16 | 38 |
| IOL16A | I/O | 6 | DQ6/DQS_67 | | True_of_IOL16B | True | x16 | 39 |

| 注！ | | | | | | | | |
|-----------------------------|-----|------|------------|-----------------------|----------------|------|------|----------------------|
| [1] EV版本封装。 | | | | | | | | |
| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | LQ100 ^[1] |
| IOL16B | I/O | 6 | DQ6/DQS_67 | | Comp_of_IOL16A | True | x16 | 40 |
| IOL21A | I/O | 6 | DQS6/DQ6 | | True_of_IOL21B | True | x16 | 41 |
| IOL21B | I/O | 6 | DQS6/DQ6 | | Comp_of_IOL21A | True | x16 | 42 |
| IOL25A | I/O | 6 | DQ6 | | True_of_IOL25B | True | x16 | 43 |
| IOL27B | I/O | 6 | DQ6 | | Comp_of_IOL27A | True | x16 | 47 |
| IOL31A | I/O | 6 | none | | True_of_IOL31B | True | x16 | 48 |
| IOL31B | I/O | 6 | none | | Comp_of_IOL31A | True | x16 | 49 |
| IOL3A/GCLKT_14A/LPLL0_T_IN2 | I/O | 6 | DQ7 | GCLKT_14A/LPLL0_T_IN2 | True_of_IOL3B | True | x16 | 28 |
| IOL3B/GCLKC_14/LPLL0_C_FB0 | I/O | 6 | DQ7 | GCLKC_14/LPLL0_C_FB0 | Comp_of_IOL3A | True | x16 | 27 |
| IOL5A/GCLKT_13/LPLL0_T_IN1 | I/O | 6 | DQ7 | GCLKT_13/LPLL0_T_IN1 | True_of_IOL5B | True | x16 | 30 |
| IOL5B/GCLKC_13/LPLL0_C_FB1 | I/O | 6 | DQ7 | GCLKC_13/LPLL0_C_FB1 | Comp_of_IOL5A | True | x16 | 29 |
| IOL7A | I/O | 6 | DQ7 | | True_of_IOL7B | True | x16 | 31 |
| IOL9A | I/O | 6 | DQS7/DQ7 | | True_of_IOL9B | True | x16 | 34 |
| IOL9B | I/O | 6 | DQS7/DQ7 | | Comp_of_IOL9A | True | x16 | 32 |
| IOR1A/TCK | I/O | 10 | none | TCK | | none | none | 98 |
| IOR1B/TDI | I/O | 10 | none | TDI | | none | none | 99 |
| IOR20A | I/O | 2 | DQ3 | | True_of_IOR20B | True | x16 | 91 |
| IOR20B | I/O | 2 | DQ3 | | Comp_of_IOR20A | True | x16 | 90 |
| IOR22A | I/O | 2 | DQ3 | | True_of_IOR22B | True | x16 | 89 |
| IOR22B | I/O | 2 | DQ3 | | Comp_of_IOR22A | True | x16 | 88 |
| IOR24A | I/O | 2 | DQ3 | | True_of_IOR24B | True | x16 | 87 |
| IOR24B | I/O | 2 | DQ3 | | Comp_of_IOR24A | True | x16 | 86 |
| IOR26A | I/O | 2 | DQS3/DQ3 | | True_of_IOR26B | True | x16 | 85 |
| IOR26B | I/O | 2 | DQS3/DQ3 | | Comp_of_IOR26A | True | x16 | 84 |
| IOR29A | I/O | 2 | DQ3 | | True_of_IOR29B | True | x16 | 83 |
| IOR29B | I/O | 2 | DQ3 | | Comp_of_IOR29A | True | x16 | 82 |
| IOR31A/GCLKT_4/RPLL1_T_IN0 | I/O | 2 | DQ3 | GCLKT_4/RPLL1_T_IN0 | True_of_IOR31B | True | x16 | 81 |
| IOR31B/GCLKC_4/RPLL1_C_FB1 | I/O | 2 | DQ3 | GCLKC_4/RPLL1_C_FB1 | Comp_of_IOR31A | True | x16 | 78 |
| IOR33A/GCLKT_5/RPLL1_T_IN1 | I/O | 2 | none | GCLKT_5/RPLL1_T_IN1 | True_of_IOR33B | True | x16 | 77 |
| IOR33B/GCLKC_5/RPLL1_C_FB0 | I/O | 2 | none | GCLKC_5/RPLL1_C_FB0 | Comp_of_IOR33A | True | x16 | 76 |
| IOR3A/TMS | I/O | 10 | none | TMS | | none | none | 96 |
| IOR3B/TDO | I/O | 10 | none | TDO | | none | none | 97 |

| 注！ | | | | | | | | |
|----------------------------|-------|------|------------|----------------------|----------------|------|-----|----------------------|
| [1] EV版本封装。 | | | | | | | | |
| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | LQ100 ^[1] |
| IOR7A | I/O | 2 | DQ2 | | True_of_IOR7B | True | x16 | 95 |
| IOR7B | I/O | 2 | DQ2 | | Comp_of_IOR7A | True | x16 | 94 |
| IOT11A | I/O | 7 | none | | True_of_IOT11B | True | x16 | 21 |
| IOT11B | I/O | 7 | none | | Comp_of_IOT11A | True | x16 | 20 |
| IOT15A | I/O | 7 | none | | True_of_IOT15B | True | x16 | 19 |
| IOT15B | I/O | 7 | none | | Comp_of_IOT15A | True | x16 | 18 |
| IOT19A | I/O | 7 | none | | True_of_IOT19B | True | x16 | 17 |
| IOT19B | I/O | 7 | none | | Comp_of_IOT19A | True | x16 | 16 |
| IOT1A/GCLKT_15/LPLL0_T_IN0 | I/O | 7 | none | GCLKT_15/LPLL0_T_IN0 | True_of_IOT1B | True | x16 | 25 |
| IOT1B/GCLKC_15 | I/O | 7 | none | GCLKC_15 | Comp_of_IOT1A | True | x16 | 24 |
| IOT23A | I/O | 7 | none | | True_of_IOT23B | True | x16 | 15 |
| IOT23B | I/O | 7 | none | | Comp_of_IOT23A | True | x16 | 14 |
| IOT27A | I/O | 7 | none | | True_of_IOT27B | True | x16 | 13 |
| IOT27B | I/O | 7 | none | | Comp_of_IOT27A | True | x16 | 12 |
| IOT63A/GCLKT_3/RPLL0_T_IN0 | I/O | 1 | DQ0 | GCLKT_3/RPLL0_T_IN0 | True_of_IOT63B | True | x16 | 10 |
| IOT63B/GCLKC_3 | I/O | 1 | DQ0 | GCLKC_3 | Comp_of_IOT63A | True | x16 | 9 |
| IOT74A | I/O | 1 | DQ1/DQS_01 | | True_of_IOT74B | True | x16 | 8 |
| IOT74B | I/O | 1 | DQ1/DQS_01 | | Comp_of_IOT74A | True | x16 | 7 |
| IOT80A | I/O | 1 | DQS1/DQ1 | | True_of_IOT80B | True | x16 | 4 |
| IOT80B | I/O | 1 | DQS1/DQ1 | | Comp_of_IOT80A | True | x16 | 3 |
| IOT91A/RPLL0_T_IN1 | I/O | 1 | none | RPLL0_T_IN1 | True_of_IOT91B | True | x16 | 2 |
| IOT91B/RPLL0_C_FB0 | I/O | 1 | none | RPLL0_C_FB0 | Comp_of_IOT91A | True | x16 | 1 |
| VCC_EXT/VCC_REG/VCCIO0 | Power | N/A | | | | | | 93 |
| VCC_EXT/VCC_REG/VCCIO0 | Power | N/A | | | | | | 50 |
| VCC_EXT/VCC_REG/VCCIO0 | Power | N/A | | | | | | 11 |
| VCCIO10/VCCX | Power | N/A | | | | | | 26 |
| VCCIO10/VCCX | Power | N/A | | | | | | 100 |
| NC | N/A | N/A | | | | | | 45 |
| VCCIO1 | Power | N/A | | | | | | 5 |
| VCCIO2 | Power | N/A | | | | | | 80 |
| VCCIO6 | Power | N/A | | | | | | 46 |
| VCCIO7 | Power | N/A | | | | | | 23 |

注！
[1] EV版本封装。

| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | LQ100 ^[1] |
|----------------------|--------|------|-----|------|--------|------|-----|----------------------|
| VCCIO3/VCCIO4/VCCIO5 | Power | N/A | | | | | | 73 |
| VCCIO3/VCCIO4/VCCIO5 | Power | N/A | | | | | | 55 |
| VSS | Ground | N/A | | | | | | 6 |
| VSS | Ground | N/A | | | | | | 33 |
| VSS | Ground | N/A | | | | | | 56 |
| VSS | Ground | N/A | | | | | | 72 |
| VSS | Ground | N/A | | | | | | 79 |
| VSS | Ground | N/A | | | | | | 92 |
| NC | N/A | N/A | | | | | | 22 |
| NC | N/A | N/A | | | | | | 44 |

| 注！ | | | | | | | | |
|--------------------------------------|-----|------|------|-------------------------------|----------------|------|------|-----------------------|
| [1] EV版本封装。 | | | | | | | | |
| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | PG256S ^[1] |
| IOB10A/D03/SSPI_CN | I/O | 5 | none | D03/SSPI_CS_N | True_of_IOB10B | True | x16 | N5 |
| IOB10B/D04/SI/SSI0 | I/O | 5 | none | D04/SI/SSI0 | Comp_of_IOB10A | True | x16 | P5 |
| IOB12A/GCLKT_10B/D07/SSPI_WPN/SSI2 | I/O | 5 | none | GCLKT_10B/D07/SSPI_WPN/SSI2 | True_of_IOB12B | True | x16 | R5 |
| IOB12B/GCLKC_10B/RDWR_B/LP_LL1_C_IN1 | I/O | 5 | none | GCLKC_10B/RDWR_B/LP_LL1_C_IN1 | Comp_of_IOB12A | True | x16 | T5 |
| IOB14A/SSPI_CLK | I/O | 5 | none | SSPI_CLK | True_of_IOB14B | True | x16 | P6 |
| IOB14B/CLKHOLD_N/SSI3 | I/O | 5 | none | CLKHOLD_N/SSI3 | Comp_of_IOB14A | True | x16 | T6 |
| IOB1A/RECONFIGN | I/O | 5 | none | RECONFIGN | | none | none | T2 |
| IOB26A/GCLKT_9B | I/O | 5 | none | GCLKT_9B | True_of_IOB26B | True | x16 | R7 |
| IOB26B/GCLKC_9B | I/O | 5 | none | GCLKC_9B | Comp_of_IOB26A | True | x16 | T7 |
| IOB29A/GCLKT_11A | I/O | 4 | none | GCLKT_11A | True_of_IOB29B | True | x16 | M9 |
| IOB29B/GCLKC_11A | I/O | 4 | none | GCLKC_11A | Comp_of_IOB29A | True | x16 | N8 |
| IOB2A | I/O | 5 | none | | True_of_IOB2B | True | x16 | P4 |
| IOB2B | I/O | 5 | none | | Comp_of_IOB2A | True | x16 | T4 |
| IOB31A/GCLKT_10A/D14 | I/O | 4 | none | GCLKT_10A/D14 | True_of_IOB31B | True | x16 | P7 |
| IOB31B/GCLKC_10A/D15/BPLL_C_FB0 | I/O | 4 | none | GCLKC_10A/D15/BPLL_C_FB0 | Comp_of_IOB31A | True | x16 | M7 |
| IOB33A/GCLKT_9A/D13/BPLL_T_I_N1 | I/O | 4 | none | GCLKT_9A/D13/BPLL_T_I_N1 | True_of_IOB33B | True | x16 | P8 |
| IOB33B/GCLKC_9A/EMCCLK | I/O | 4 | none | GCLKC_9A/EMCCLK | Comp_of_IOB33A | True | x16 | T8 |
| IOB35A/GCLKT_8 | I/O | 4 | none | GCLKT_8 | True_of_IOB35B | True | x16 | R9 |
| IOB35B/GCLKC_8 | I/O | 4 | none | GCLKC_8 | Comp_of_IOB35A | True | x16 | T9 |
| IOB37A/READY | I/O | 4 | none | READY | True_of_IOB37B | True | x16 | R3 |
| IOB37B/MCS_N/CSO_B | I/O | 4 | none | MCS_N/CSO_B | Comp_of_IOB37A | True | x16 | T3 |
| IOB45A | I/O | 4 | none | | True_of_IOB45B | True | x16 | L10 |
| IOB45B | I/O | 4 | none | | Comp_of_IOB45A | True | x16 | M10 |
| IOB4A/D08/SDA | I/O | 5 | none | D08/SDA | True_of_IOB4B | True | x16 | M6 |
| IOB4B/D09/SCL/LPLL1_C_FB0 | I/O | 5 | none | D09/SCL/LPLL1_C_FB0 | Comp_of_IOB4A | True | x16 | N6 |
| IOB50A/D11 | I/O | 4 | none | D11 | True_of_IOB50B | True | x16 | N9 |
| IOB50B/D12 | I/O | 4 | none | D12 | Comp_of_IOB50A | True | x16 | P9 |

| 注! | | | | | | | | |
|-------------------------------------|-----|------|------------|------------------------------|----------------|------|------|-----------------------|
| [1] EV版本封装。 | | | | | | | | |
| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | PG256S ^[1] |
| IOB52A/MODE1 | I/O | 4 | none | MODE1 | True_of_IOB52B | True | x16 | N11 |
| IOB52B/D10 | I/O | 4 | none | D10 | Comp_of_IOB52A | True | x16 | P11 |
| IOB54A/GCLKT_11B/D01/MI2 | I/O | 4 | none | GCLKT_11B/D01/MI2 | True_of_IOB54B | True | x16 | N12 |
| IOB54B/GCLKC_11B/D02/MI3/BPLL_C_FB1 | I/O | 4 | none | GCLKC_11B/D02/MI3/BPLL_C_FB1 | Comp_of_IOB54A | True | x16 | P12 |
| IOB56A | I/O | 4 | none | | True_of_IOB56B | True | x16 | L11 |
| IOB58A/D00/MISO/MI1/DIN | I/O | 4 | none | D00/MISO/MI1/DIN | True_of_IOB58B | True | x16 | P10 |
| IOB58B/MOSI/CSI_B/MI0 | I/O | 4 | none | MOSI/CSI_B/MI0 | Comp_of_IOB58A | True | x16 | T10 |
| IOB60A | I/O | 4 | none | | True_of_IOB60B | True | x16 | M12 |
| IOB60B | I/O | 4 | none | | Comp_of_IOB60A | True | x16 | M11 |
| IOB62A/CCLK | I/O | 4 | none | CCLK | True_of_IOB62B | True | x16 | R11 |
| IOB62B/MODE0 | I/O | 4 | none | MODE0 | Comp_of_IOB62A | True | x16 | T11 |
| IOB64A/DONE | I/O | 4 | none | DONE | | none | none | P13 |
| IOB65A | I/O | 3 | none | | True_of_IOB65B | True | x16 | M13 |
| IOB65B/DOUT | I/O | 3 | none | DOUT | Comp_of_IOB65A | True | x16 | M14 |
| IOB69A | I/O | 3 | DQ5 | | True_of_IOB69B | True | x16 | L12 |
| IOB69B | I/O | 3 | DQ5 | | Comp_of_IOB69A | True | x16 | L13 |
| IOB71A | I/O | 3 | DQ5 | | True_of_IOB71B | True | x16 | R12 |
| IOB71B | I/O | 3 | DQ5 | | Comp_of_IOB71A | True | x16 | T12 |
| IOB73A | I/O | 3 | DQ5 | | True_of_IOB73B | True | x16 | T14 |
| IOB73B | I/O | 3 | DQ5 | | Comp_of_IOB73A | True | x16 | T13 |
| IOB75A/GCLKT_6B | I/O | 3 | DQS5/DQ5 | GCLKT_6B | True_of_IOB75B | True | x16 | R14 |
| IOB75B/GCLKC_6B | I/O | 3 | DQS5/DQ5 | GCLKC_6B | Comp_of_IOB75A | True | x16 | T15 |
| IOB77A | I/O | 3 | DQ5 | | True_of_IOB77B | True | x16 | R15 |
| IOB77B | I/O | 3 | DQ5 | | Comp_of_IOB77A | True | x16 | R16 |
| IOB79A | I/O | 3 | DQ5/DQS_45 | | True_of_IOB79B | True | x16 | P15 |
| IOB79B | I/O | 3 | DQ5/DQS_45 | | Comp_of_IOB79A | True | x16 | P16 |
| IOB81A | I/O | 3 | DQ4 | | True_of_IOB81B | True | x16 | L14 |
| IOB81B | I/O | 3 | DQ4 | | Comp_of_IOB81A | True | x16 | L16 |
| IOB83A | I/O | 3 | DQ4 | | True_of_IOB83B | True | x16 | M15 |
| IOB83B | I/O | 3 | DQ4 | | Comp_of_IOB83A | True | x16 | M16 |

| 注! | | | | | | | | |
|-----------------------------|-----|------|------------|-----------------------|----------------|------|-----|-----------------------|
| [1] EV版本封装。 | | | | | | | | |
| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | PG256S ^[1] |
| I0B85A | I/O | 3 | DQS4/DQ4 | | True_of_I0B85B | True | x16 | N14 |
| I0B85B | I/O | 3 | DQS4/DQ4 | | Comp_of_I0B85A | True | x16 | N16 |
| I0B87A | I/O | 3 | DQ4 | | True_of_I0B87B | True | x16 | K15 |
| I0B87B | I/O | 3 | DQ4 | | Comp_of_I0B87A | True | x16 | K16 |
| I0B89A/GCLKT_7/BPLL_T_IN0 | I/O | 3 | DQ4 | GCLKT_7/BPLL_T_IN0 | True_of_I0B89B | True | x16 | J14 |
| I0B89B/GCLKC_7 | I/O | 3 | DQ4 | GCLKC_7 | Comp_of_I0B89A | True | x16 | J16 |
| I0B8A/D05/SO/SS11 | I/O | 5 | none | D05/SO/SS11 | True_of_I0B8B | True | x16 | L8 |
| I0B8B/D06 | I/O | 5 | none | D06 | Comp_of_I0B8A | True | x16 | L7 |
| I0B91A/GCLKT_6A | I/O | 3 | DQ4 | GCLKT_6A | True_of_I0B91B | True | x16 | K12 |
| I0B91B/GCLKC_6A | I/O | 3 | DQ4 | GCLKC_6A | Comp_of_I0B91A | True | x16 | K11 |
| I0L12A | I/O | 6 | DQ7 | | True_of_I0L12B | True | x16 | J3 |
| I0L12B | I/O | 6 | DQ7 | | Comp_of_I0L12A | True | x16 | J1 |
| I0L14A/LPLL1_T_IN0 | I/O | 6 | DQ7 | LPLL1_T_IN0 | True_of_I0L14B | True | x16 | K2 |
| I0L14B | I/O | 6 | DQ7 | | Comp_of_I0L14A | True | x16 | K1 |
| I0L16A | I/O | 6 | DQ6/DQS_67 | | True_of_I0L16B | True | x16 | L3 |
| I0L16B | I/O | 6 | DQ6/DQS_67 | | Comp_of_I0L16A | True | x16 | L1 |
| I0L18A | I/O | 6 | DQ6 | | True_of_I0L18B | True | x16 | M2 |
| I0L18B | I/O | 6 | DQ6 | | Comp_of_I0L18A | True | x16 | M1 |
| I0L21A | I/O | 6 | DQS6/DQ6 | | True_of_I0L21B | True | x16 | N3 |
| I0L21B | I/O | 6 | DQS6/DQ6 | | Comp_of_I0L21A | True | x16 | N1 |
| I0L23A | I/O | 6 | DQ6 | | True_of_I0L23B | True | x16 | P2 |
| I0L23B | I/O | 6 | DQ6 | | Comp_of_I0L23A | True | x16 | P1 |
| I0L25A | I/O | 6 | DQ6 | | True_of_I0L25B | True | x16 | R2 |
| I0L25B | I/O | 6 | DQ6 | | Comp_of_I0L25A | True | x16 | R1 |
| I0L29A | I/O | 6 | none | | True_of_I0L29B | True | x16 | M4 |
| I0L29B | I/O | 6 | none | | Comp_of_I0L29A | True | x16 | M3 |
| I0L31A | I/O | 6 | none | | True_of_I0L31B | True | x16 | M5 |
| I0L31B | I/O | 6 | none | | Comp_of_I0L31A | True | x16 | N4 |
| I0L3A/GCLKT_14A/LPLL0_T_IN2 | I/O | 6 | DQ7 | GCLKT_14A/LPLL0_T_IN2 | True_of_I0L3B | True | x16 | K3 |
| I0L3B/GCLKC_14/LPLL0_C_FB0 | I/O | 6 | DQ7 | GCLKC_14/LPLL0_C_FB0 | Comp_of_I0L3A | True | x16 | J4 |
| I0L5A/GCLKT_13/LPLL0_T_IN1 | I/O | 6 | DQ7 | GCLKT_13/LPLL0_T_IN1 | True_of_I0L5B | True | x16 | F2 |

| 注! | | | | | | | | |
|----------------------------|-----|------|------------|----------------------|----------------|------|------|-----------------------|
| [1] EV版本封装。 | | | | | | | | |
| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | PG256S ^[1] |
| IOL5B/GCLKC_13/LPLL0_C_FB1 | I/O | 6 | DQ7 | GCLKC_13/LPLL0_C_FB1 | Comp_of_IOL5A | True | x16 | F1 |
| IOL7A | I/O | 6 | DQ7 | | True_of_IOL7B | True | x16 | G3 |
| IOL7B | I/O | 6 | DQ7 | | Comp_of_IOL7A | True | x16 | G1 |
| IOL9A | I/O | 6 | DQS7/DQ7 | | True_of_IOL9B | True | x16 | H2 |
| IOL9B | I/O | 6 | DQS7/DQ7 | | Comp_of_IOL9A | True | x16 | H1 |
| IOR12A | I/O | 2 | DQS2/DQ2 | | True_of_IOR12B | True | x16 | D14 |
| IOR12B | I/O | 2 | DQS2/DQ2 | | Comp_of_IOR12A | True | x16 | D16 |
| IOR14A | I/O | 2 | DQ2 | | True_of_IOR14B | True | x16 | F13 |
| IOR14B | I/O | 2 | DQ2 | | Comp_of_IOR14A | True | x16 | F14 |
| IOR16A | I/O | 2 | DQ2 | | True_of_IOR16B | True | x16 | C15 |
| IOR16B | I/O | 2 | DQ2 | | Comp_of_IOR16A | True | x16 | C16 |
| IOR18A | I/O | 2 | DQ2/DQS_23 | | True_of_IOR18B | True | x16 | E15 |
| IOR18B | I/O | 2 | DQ2/DQS_23 | | Comp_of_IOR18A | True | x16 | E16 |
| IOR1A/TCK | I/O | 10 | none | TCK | | none | none | C14 |
| IOR1B/TDI | I/O | 10 | none | TDI | | none | none | C12 |
| IOR20A | I/O | 2 | DQ3 | | True_of_IOR20B | True | x16 | F15 |
| IOR20B | I/O | 2 | DQ3 | | Comp_of_IOR20A | True | x16 | F16 |
| IOR22A | I/O | 2 | DQ3 | | True_of_IOR22B | True | x16 | G14 |
| IOR22B | I/O | 2 | DQ3 | | Comp_of_IOR22A | True | x16 | G16 |
| IOR24A | I/O | 2 | DQ3 | | True_of_IOR24B | True | x16 | H15 |
| IOR24B | I/O | 2 | DQ3 | | Comp_of_IOR24A | True | x16 | H16 |
| IOR26A | I/O | 2 | DQS3/DQ3 | | True_of_IOR26B | True | x16 | G12 |
| IOR26B | I/O | 2 | DQS3/DQ3 | | Comp_of_IOR26A | True | x16 | H11 |
| IOR29A | I/O | 2 | DQ3 | | True_of_IOR29B | True | x16 | H13 |
| IOR29B | I/O | 2 | DQ3 | | Comp_of_IOR29A | True | x16 | H14 |
| IOR31A/GCLKT_4/RPLL1_T_IN0 | I/O | 2 | DQ3 | GCLKT_4/RPLL1_T_IN0 | True_of_IOR31B | True | x16 | J11 |
| IOR31B/GCLKC_4/RPLL1_C_FB1 | I/O | 2 | DQ3 | GCLKC_4/RPLL1_C_FB1 | Comp_of_IOR31A | True | x16 | J12 |
| IOR33A/GCLKT_5/RPLL1_T_IN1 | I/O | 2 | none | GCLKT_5/RPLL1_T_IN1 | True_of_IOR33B | True | x16 | J13 |
| IOR33B/GCLKC_5/RPLL1_C_FB0 | I/O | 2 | none | GCLKC_5/RPLL1_C_FB0 | Comp_of_IOR33A | True | x16 | K14 |
| IOR35A | I/O | 11 | none | | | none | none | P14 |
| IOR3A/TMS | I/O | 10 | none | TMS | | none | none | A15 |

| 注! | | | | | | | | |
|----------------------------|-----|------|------|----------------------|----------------|------|------|-----------------------|
| [1] EV版本封装。 | | | | | | | | |
| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | PG256S ^[1] |
| IOR3B/TDO | I/O | 10 | none | TDO | | none | none | E14 |
| IOR5A | I/O | 2 | none | | True_of_IOR5B | True | x16 | E13 |
| IOR5B | I/O | 2 | none | | Comp_of_IOR5A | True | x16 | E12 |
| IOR7A | I/O | 2 | DQ2 | | True_of_IOR7B | True | x16 | B15 |
| IOR7B | I/O | 2 | DQ2 | | Comp_of_IOR7A | True | x16 | B16 |
| IOR9A | I/O | 2 | DQ2 | | True_of_IOR9B | True | x16 | F12 |
| IOR9B | I/O | 2 | DQ2 | | Comp_of_IOR9A | True | x16 | G11 |
| IOT11A | I/O | 7 | none | | True_of_IOT11B | True | x16 | F4 |
| IOT11B | I/O | 7 | none | | Comp_of_IOT11A | True | x16 | F3 |
| IOT13A | I/O | 7 | none | | True_of_IOT13B | True | x16 | E2 |
| IOT13B | I/O | 7 | none | | Comp_of_IOT13A | True | x16 | E1 |
| IOT15A | I/O | 7 | none | | True_of_IOT15B | True | x16 | F6 |
| IOT15B | I/O | 7 | none | | Comp_of_IOT15A | True | x16 | F5 |
| IOT17A | I/O | 7 | none | | True_of_IOT17B | True | x16 | E4 |
| IOT17B | I/O | 7 | none | | Comp_of_IOT17A | True | x16 | E3 |
| IOT19A | I/O | 7 | none | | True_of_IOT19B | True | x16 | D3 |
| IOT19B | I/O | 7 | none | | Comp_of_IOT19A | True | x16 | D1 |
| IOT1A/GCLKT_15/LPLL0_T_IN0 | I/O | 7 | none | GCLKT_15/LPLL0_T_IN0 | True_of_IOT1B | True | x16 | H4 |
| IOT1B/GCLKC_15 | I/O | 7 | none | GCLKC_15 | Comp_of_IOT1A | True | x16 | H3 |
| IOT21A | I/O | 7 | none | | True_of_IOT21B | True | x16 | C1 |
| IOT21B | I/O | 7 | none | | Comp_of_IOT21A | True | x16 | B1 |
| IOT23A | I/O | 7 | none | | True_of_IOT23B | True | x16 | C3 |
| IOT23B | I/O | 7 | none | | Comp_of_IOT23A | True | x16 | C2 |
| IOT25A | I/O | 7 | none | | True_of_IOT25B | True | x16 | B2 |
| IOT25B | I/O | 7 | none | | Comp_of_IOT25A | True | x16 | A2 |
| IOT27A | I/O | 7 | none | | True_of_IOT27B | True | x16 | B3 |
| IOT27B | I/O | 7 | none | | Comp_of_IOT27A | True | x16 | A3 |
| IOT29A/PUDC_B | I/O | 0 | none | PUDC_B | True_of_IOT29B | True | x16 | C4 |
| IOT29B | I/O | 0 | none | | Comp_of_IOT29A | True | x16 | A4 |
| IOT31A | I/O | 0 | none | | True_of_IOT31B | True | x16 | B5 |
| IOT31B | I/O | 0 | none | | Comp_of_IOT31A | True | x16 | A5 |

注！
[1] EV版本封装。

| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | PG256S ^[1] |
|----------------------------|-----|------|----------|---------------------|----------------|------|-----|-----------------------|
| IOT33A | I/O | 0 | none | | True_of_IOT33B | True | x16 | D5 |
| IOT33B | I/O | 0 | none | | Comp_of_IOT33A | True | x16 | C5 |
| IOT35A | I/O | 0 | none | | True_of_IOT35B | True | x16 | B6 |
| IOT35B | I/O | 0 | none | | Comp_of_IOT35A | True | x16 | A6 |
| IOT37A | I/O | 0 | none | | True_of_IOT37B | True | x16 | F7 |
| IOT37B | I/O | 0 | none | | Comp_of_IOT37A | True | x16 | E6 |
| IOT39A | I/O | 0 | none | | True_of_IOT39B | True | x16 | C7 |
| IOT39B | I/O | 0 | none | | Comp_of_IOT39A | True | x16 | A7 |
| IOT3A/GCLKT_16 | I/O | 7 | none | GCLKT_16 | True_of_IOT3B | True | x16 | J6 |
| IOT3B/GCLKC_16 | I/O | 7 | none | GCLKC_16 | Comp_of_IOT3A | True | x16 | H5 |
| IOT41A | I/O | 0 | none | | True_of_IOT41B | True | x16 | D6 |
| IOT41B | I/O | 0 | none | | Comp_of_IOT41A | True | x16 | C6 |
| IOT54A | I/O | 0 | none | | True_of_IOT54B | True | x16 | B8 |
| IOT54B | I/O | 0 | none | | Comp_of_IOT54A | True | x16 | A8 |
| IOT56A/GCLKT_0/TPLL_T_IN1 | I/O | 0 | none | GCLKT_0/TPLL_T_IN1 | True_of_IOT56B | True | x16 | C9 |
| IOT56B/GCLKC_0/TPLL_C_FB1 | I/O | 0 | none | GCLKC_0/TPLL_C_FB1 | Comp_of_IOT56A | True | x16 | A9 |
| IOT58A/GCLKT_1/TPLL_T_IN2 | I/O | 0 | none | GCLKT_1/TPLL_T_IN2 | True_of_IOT58B | True | x16 | B10 |
| IOT58B/GCLKC_1/TPLL_C_FB0 | I/O | 0 | none | GCLKC_1/TPLL_C_FB0 | Comp_of_IOT58A | True | x16 | A10 |
| IOT5A | I/O | 7 | none | | True_of_IOT5B | True | x16 | L4 |
| IOT5B | I/O | 7 | none | | Comp_of_IOT5A | True | x16 | L5 |
| IOT61A/GCLKT_2/TPLL_T_IN0 | I/O | 1 | DQS0/DQ0 | GCLKT_2/TPLL_T_IN0 | True_of_IOT61B | True | x16 | E7 |
| IOT61B/GCLKC_2 | I/O | 1 | DQS0/DQ0 | GCLKC_2 | Comp_of_IOT61A | True | x16 | E8 |
| IOT63A/GCLKT_3/RPLL0_T_IN0 | I/O | 1 | DQ0 | GCLKT_3/RPLL0_T_IN0 | True_of_IOT63B | True | x16 | E10 |
| IOT63B/GCLKC_3 | I/O | 1 | DQ0 | GCLKC_3 | Comp_of_IOT63A | True | x16 | C10 |
| IOT66A | I/O | 1 | DQ0 | | True_of_IOT66B | True | x16 | D8 |
| IOT66B | I/O | 1 | DQ0 | | Comp_of_IOT66A | True | x16 | C8 |
| IOT68A | I/O | 1 | DQ0 | | True_of_IOT68B | True | x16 | C11 |
| IOT68B | I/O | 1 | DQ0 | | Comp_of_IOT68A | True | x16 | A11 |
| IOT70A | I/O | 1 | DQ0 | | True_of_IOT70B | True | x16 | F9 |
| IOT70B | I/O | 1 | DQ0 | | Comp_of_IOT70A | True | x16 | D9 |
| IOT7A | I/O | 7 | none | | True_of_IOT7B | True | x16 | K5 |
| IOT7B | I/O | 7 | none | | Comp_of_IOT7A | True | x16 | K6 |

| 注！ | | | | | | | | |
|--------------------|-------|------|------|-------------|----------------|------|-----|-----------------------|
| [1] EV版本封装。 | | | | | | | | |
| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | PG256S ^[1] |
| IOT83A | I/O | 1 | DQ1 | | True_of_IOT83B | True | x16 | B12 |
| IOT83B | I/O | 1 | DQ1 | | Comp_of_IOT83A | True | x16 | A12 |
| IOT85A | I/O | 1 | DQ1 | | True_of_IOT85B | True | x16 | C13 |
| IOT85B | I/O | 1 | DQ1 | | Comp_of_IOT85A | True | x16 | A13 |
| IOT87A | I/O | 1 | none | | True_of_IOT87B | True | x16 | F10 |
| IOT87B | I/O | 1 | none | | Comp_of_IOT87A | True | x16 | E11 |
| IOT89A/RPLL0_T_FB1 | I/O | 1 | none | RPLL0_T_FB1 | True_of_IOT89B | True | x16 | B14 |
| IOT89B | I/O | 1 | none | | Comp_of_IOT89A | True | x16 | A14 |
| IOT91A/RPLL0_T_IN1 | I/O | 1 | none | RPLL0_T_IN1 | True_of_IOT91B | True | x16 | D11 |
| IOT91B/RPLL0_C_FB0 | I/O | 1 | none | RPLL0_C_FB0 | Comp_of_IOT91A | True | x16 | D12 |
| IOT9A | I/O | 7 | none | | True_of_IOT9B | True | x16 | G6 |
| IOT9B | I/O | 7 | none | | Comp_of_IOT9A | True | x16 | G5 |
| VCC_EXT | Power | N/A | | | | | | J9 |
| VCC_EXT | Power | N/A | | | | | | J7 |
| VCC_EXT | Power | N/A | | | | | | G9 |
| VCC_EXT | Power | N/A | | | | | | H10 |
| VCC_EXT | Power | N/A | | | | | | G7 |
| VCC_EXT | Power | N/A | | | | | | K8 |
| VCC_EXT | Power | N/A | | | | | | K10 |
| VCCIO10/VCCX | Power | N/A | | | | | | G10 |
| VCCIO10/VCCX | Power | N/A | | | | | | F11 |
| VCCIO10/VCCX | Power | N/A | | | | | | J10 |
| VCCIO10/VCCX | Power | N/A | | | | | | H6 |
| VCCIO10/VCCX | Power | N/A | | | | | | L6 |
| VCCIO10/VCCX | Power | N/A | | | | | | F8 |
| VCCIO10/VCCX | Power | N/A | | | | | | L9 |
| VCCIO10/VCCX | Power | N/A | | | | | | E5 |
| VCC_REG | Power | N/A | | | | | | H8 |
| VCCIO0 | Power | N/A | | | | | | D7 |
| VCCIO0 | Power | N/A | | | | | | B4 |
| VCCIO1 | Power | N/A | | | | | | B13 |
| VCCIO1 | Power | N/A | | | | | | D10 |

| 注！ | | | | | | | | |
|-------------|--------|------|-----|------|--------|------|-----|-----------------------|
| [1] EV版本封装。 | | | | | | | | |
| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | PG256S ^[1] |
| VCCIO1 | Power | N/A | | | | | | B9 |
| VCCIO2 | Power | N/A | | | | | | J15 |
| VCCIO2 | Power | N/A | | | | | | D15 |
| VCCIO2 | Power | N/A | | | | | | G13 |
| VCCIO3 | Power | N/A | | | | | | K13 |
| VCCIO3 | Power | N/A | | | | | | N15 |
| VCCIO3 | Power | N/A | | | | | | R13 |
| VCCIO4 | Power | N/A | | | | | | N10 |
| VCCIO4 | Power | N/A | | | | | | R8 |
| VCCIO5 | Power | N/A | | | | | | N7 |
| VCCIO5 | Power | N/A | | | | | | R4 |
| VCCIO6 | Power | N/A | | | | | | N2 |
| VCCIO6 | Power | N/A | | | | | | K4 |
| VCCIO6 | Power | N/A | | | | | | J2 |
| VCCIO7 | Power | N/A | | | | | | D2 |
| VCCIO7 | Power | N/A | | | | | | G4 |
| VQPS | Power | N/A | | | | | | H12 |
| VSS | Ground | N/A | | | | | | A1 |
| VSS | Ground | N/A | | | | | | A16 |
| VSS | Ground | N/A | | | | | | B11 |
| VSS | Ground | N/A | | | | | | B7 |
| VSS | Ground | N/A | | | | | | D13 |
| VSS | Ground | N/A | | | | | | D4 |
| VSS | Ground | N/A | | | | | | E9 |
| VSS | Ground | N/A | | | | | | G15 |
| VSS | Ground | N/A | | | | | | G2 |
| VSS | Ground | N/A | | | | | | G8 |
| VSS | Ground | N/A | | | | | | H7 |
| VSS | Ground | N/A | | | | | | H9 |
| VSS | Ground | N/A | | | | | | J5 |
| VSS | Ground | N/A | | | | | | J8 |
| VSS | Ground | N/A | | | | | | K7 |

注！
 [1] EV版本封装。

| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | PG256S ^[1] |
|------|--------|------|-----|------|--------|------|-----|-----------------------|
| VSS | Ground | N/A | | | | | | K9 |
| VSS | Ground | N/A | | | | | | L15 |
| VSS | Ground | N/A | | | | | | L2 |
| VSS | Ground | N/A | | | | | | M8 |
| VSS | Ground | N/A | | | | | | N13 |
| VSS | Ground | N/A | | | | | | P3 |
| VSS | Ground | N/A | | | | | | R10 |
| VSS | Ground | N/A | | | | | | R6 |
| VSS | Ground | N/A | | | | | | T1 |
| VSS | Ground | N/A | | | | | | T16 |

注!
[1] EV版本封装。

| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | UG256C ^[1] |
|--|-----|------|------|---------------------------------------|----------------|------|-----|-----------------------|
| IOB10A/D06/SSPI_CS_N | I/O | 5 | none | D06/SSPI_CS_N | True_of_IOB10B | True | x16 | E6 |
| IOB10B/D05/SI/SSI0 | I/O | 5 | none | D05/SI/SSI0 | Comp_of_IOB10A | True | x16 | E7 |
| IOB12A/GCLKT_10B/D15/SSPI_WP PN/SSI2 | I/O | 5 | none | GCLKT_10B/D15/SSPI_WP N/SSI2 | True_of_IOB12B | True | x16 | C6 |
| IOB12B/GCLKC_10B/D07/DOUT/L PLL1_C_IN1 | I/O | 5 | none | GCLKC_10B/D07/DOUT/LP LL1_C_IN1 | Comp_of_IOB12A | True | x16 | A5 |
| IOB14A/SSPI_CLK | I/O | 5 | none | SSPI_CLK | True_of_IOB14B | True | x16 | B6 |
| IOB14B/CLKHOLD_N/SSI3 | I/O | 5 | none | CLKHOLD_N/SSI3 | Comp_of_IOB14A | True | x16 | A6 |
| IOB16A | I/O | 5 | none | | True_of_IOB16B | True | x16 | D6 |
| IOB16B | I/O | 5 | none | | Comp_of_IOB16A | True | x16 | D5 |
| IOB18A | I/O | 5 | none | | True_of_IOB18B | True | x16 | B4 |
| IOB18B | I/O | 5 | none | | Comp_of_IOB18A | True | x16 | A4 |
| IOB20A | I/O | 5 | none | | True_of_IOB20B | True | x16 | F7 |
| IOB20B | I/O | 5 | none | | Comp_of_IOB20A | True | x16 | F6 |
| IOB22A | I/O | 5 | none | | True_of_IOB22B | True | x16 | B5 |
| IOB22B | I/O | 5 | none | | Comp_of_IOB22A | True | x16 | A2 |
| IOB24A | I/O | 5 | none | | True_of_IOB24B | True | x16 | D3 |
| IOB24B | I/O | 5 | none | | Comp_of_IOB24A | True | x16 | C3 |
| IOB26A/GCLKT_9B | I/O | 5 | none | GCLKT_9B | True_of_IOB26B | True | x16 | B3 |
| IOB26B/GCLKC_9B | I/O | 5 | none | GCLKC_9B | Comp_of_IOB26A | True | x16 | A3 |
| IOB29A/GCLKT_11A | I/O | 4 | none | GCLKT_11A | True_of_IOB29B | True | x16 | B1 |
| IOB29B/GCLKC_11A | I/O | 4 | none | GCLKC_11A | Comp_of_IOB29A | True | x16 | D4 |
| IOB2A | I/O | 5 | none | | True_of_IOB2B | True | x16 | B8 |
| IOB2B | I/O | 5 | none | | Comp_of_IOB2A | True | x16 | A8 |
| IOB31A/GCLKT_10A/D14 | I/O | 4 | none | GCLKT_10A/D14 | True_of_IOB31B | True | x16 | C2 |
| IOB31B/GCLKC_10A/D01/MOSI/MI 0/BPLL_C_FB0 | I/O | 4 | none | GCLKC_10A/D01/MOSI/MI 0/BPLL_C_FB0 | Comp_of_IOB31A | True | x16 | C1 |
| IOB33A/GCLKT_9A/D13/MCS_N/B PLL_T_IN1 | I/O | 4 | none | GCLKT_9A/D13/MCS_N/BP LL_T_IN1 | True_of_IOB33B | True | x16 | D2 |
| IOB33B/GCLKC_9A | I/O | 4 | none | GCLKC_9A | Comp_of_IOB33A | True | x16 | D1 |
| IOB35A/GCLKT_8 | I/O | 4 | none | GCLKT_8 | True_of_IOB35B | True | x16 | E5 |
| IOB35B/GCLKC_8 | I/O | 4 | none | GCLKC_8 | Comp_of_IOB35A | True | x16 | E1 |
| IOB37A/D08 | I/O | 4 | none | D08 | True_of_IOB37B | True | x16 | G5 |

注!
[1] EV版本封装。

| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | UG256C ^[1] |
|---------------------------------|-----|------|------------|--------------------------|----------------|------|------|-----------------------|
| IOB37B | I/O | 4 | none | | Comp_of_IOB37A | True | x16 | F5 |
| IOB45A | I/O | 4 | none | | True_of_IOB45B | True | x16 | F3 |
| IOB4A/D04/SDA | I/O | 5 | none | D04/SDA | True_of_IOB4B | True | x16 | B7 |
| IOB4B/D09/SCL/LPLL1_C_FB0 | I/O | 5 | none | D09/SCL/LPLL1_C_FB0 | Comp_of_IOB4A | True | x16 | A7 |
| IOB50A/D11 | I/O | 4 | none | D11 | True_of_IOB50B | True | x16 | F2 |
| IOB50B/D12 | I/O | 4 | none | D12 | Comp_of_IOB50A | True | x16 | F1 |
| IOB52A/RECONFIG_N | I/O | 4 | none | RECONFIG_N | True_of_IOB52B | True | x16 | H5 |
| IOB54A/GCLKT_11B/D10/MI2 | I/O | 4 | none | GCLKT_11B/D10/MI2 | True_of_IOB54B | True | x16 | G2 |
| IOB54B/GCLKC_11B/MI3/BPLL_C_FB1 | I/O | 4 | none | GCLKC_11B/MI3/BPLL_C_FB1 | Comp_of_IOB54A | True | x16 | G1 |
| IOB58A/D00/MISO/MI1/DIN | I/O | 4 | none | D00/MISO/MI1/DIN | True_of_IOB58B | True | x16 | H2 |
| IOB62A/CCLK | I/O | 4 | none | CCLK | True_of_IOB62B | True | x16 | H1 |
| IOB62B/CSI_B | I/O | 4 | none | CSI_B | Comp_of_IOB62A | True | x16 | J3 |
| IOB64A/READY | I/O | 4 | none | READY | | none | none | F4 |
| IOB65A | I/O | 3 | none | | True_of_IOB65B | True | x16 | J6 |
| IOB65B | I/O | 3 | none | | Comp_of_IOB65A | True | x16 | L3 |
| IOB69A | I/O | 3 | DQ5 | | True_of_IOB69B | True | x16 | J2 |
| IOB69B | I/O | 3 | DQ5 | | Comp_of_IOB69A | True | x16 | J1 |
| IOB6A | I/O | 5 | none | | True_of_IOB6B | True | x16 | C8 |
| IOB6B | I/O | 5 | none | | Comp_of_IOB6A | True | x16 | D8 |
| IOB71A | I/O | 3 | DQ5 | | True_of_IOB71B | True | x16 | K2 |
| IOB71B | I/O | 3 | DQ5 | | Comp_of_IOB71A | True | x16 | K1 |
| IOB73A | I/O | 3 | DQ5 | | True_of_IOB73B | True | x16 | K5 |
| IOB73B | I/O | 3 | DQ5 | | Comp_of_IOB73A | True | x16 | L4 |
| IOB75A/GCLKT_6B | I/O | 3 | DQS5/DQ5 | GCLKT_6B | True_of_IOB75B | True | x16 | L2 |
| IOB75B/GCLKC_6B | I/O | 3 | DQS5/DQ5 | GCLKC_6B | Comp_of_IOB75A | True | x16 | L1 |
| IOB77A | I/O | 3 | DQ5 | | True_of_IOB77B | True | x16 | N2 |
| IOB77B | I/O | 3 | DQ5 | | Comp_of_IOB77A | True | x16 | N1 |
| IOB79A | I/O | 3 | DQ5/DQS_45 | | True_of_IOB79B | True | x16 | P2 |
| IOB79B | I/O | 3 | DQ5/DQS_45 | | Comp_of_IOB79A | True | x16 | P1 |
| IOB85B | I/O | 3 | DQS4/DQ4 | | Comp_of_IOB85A | True | x16 | R1 |

注!
[1] EV版本封装。

| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | UG256C ^[1] |
|----------------------------|-----|------|------------|----------------------|----------------|------|-----|-----------------------|
| I0B89A/GCLKT_7/BPLL_T_IN0 | I/O | 3 | DQ4 | GCLKT_7/BPLL_T_IN0 | True_of_I0B89B | True | x16 | M2 |
| I0B89B/GCLKC_7 | I/O | 3 | DQ4 | GCLKC_7 | Comp_of_I0B89A | True | x16 | M1 |
| I0B8A/D03/SO/SS11 | I/O | 5 | none | D03/SO/SS11 | True_of_I0B8B | True | x16 | F8 |
| I0B8B/D02 | I/O | 5 | none | D02 | Comp_of_I0B8A | True | x16 | E8 |
| I0B91A/GCLKT_6A | I/O | 3 | DQ4 | GCLKT_6A | True_of_I0B91B | True | x16 | K6 |
| I0B91B/GCLKC_6A | I/O | 3 | DQ4 | GCLKC_6A | Comp_of_I0B91A | True | x16 | L6 |
| IOL12A | I/O | 6 | DQ7 | | True_of_IOL12B | True | x16 | E11 |
| IOL12B | I/O | 6 | DQ7 | | Comp_of_IOL12A | True | x16 | E10 |
| IOL14A/LPLL1_T_IN0 | I/O | 6 | DQ7 | LPLL1_T_IN0 | True_of_IOL14B | True | x16 | F9 |
| IOL14B | I/O | 6 | DQ7 | | Comp_of_IOL14A | True | x16 | F10 |
| IOL16A | I/O | 6 | DQ6/DQS_67 | | True_of_IOL16B | True | x16 | B13 |
| IOL16B | I/O | 6 | DQ6/DQS_67 | | Comp_of_IOL16A | True | x16 | A13 |
| IOL18A | I/O | 6 | DQ6 | | True_of_IOL18B | True | x16 | B12 |
| IOL18B | I/O | 6 | DQ6 | | Comp_of_IOL18A | True | x16 | A12 |
| IOL21A | I/O | 6 | DQS6/DQ6 | | True_of_IOL21B | True | x16 | C11 |
| IOL21B | I/O | 6 | DQS6/DQ6 | | Comp_of_IOL21A | True | x16 | E9 |
| IOL23A | I/O | 6 | DQ6 | | True_of_IOL23B | True | x16 | B11 |
| IOL23B | I/O | 6 | DQ6 | | Comp_of_IOL23A | True | x16 | A11 |
| IOL25A | I/O | 6 | DQ6 | | True_of_IOL25B | True | x16 | B10 |
| IOL25B | I/O | 6 | DQ6 | | Comp_of_IOL25A | True | x16 | A10 |
| IOL27A | I/O | 6 | DQ6 | | True_of_IOL27B | True | x16 | D9 |
| IOL27B | I/O | 6 | DQ6 | | Comp_of_IOL27A | True | x16 | C9 |
| IOL29A | I/O | 6 | none | | True_of_IOL29B | True | x16 | B9 |
| IOL29B | I/O | 6 | none | | Comp_of_IOL29A | True | x16 | A9 |
| IOL3A/GCLKT_14/LPLL0_T_IN2 | I/O | 6 | DQ7 | GCLKT_14/LPLL0_T_IN2 | True_of_IOL3B | True | x16 | D14 |
| IOL3B/GCLKC_14/LPLL0_C_FB0 | I/O | 6 | DQ7 | GCLKC_14/LPLL0_C_FB0 | Comp_of_IOL3A | True | x16 | C14 |
| IOL5A/GCLKT_13/LPLL0_T_IN1 | I/O | 6 | DQ7 | GCLKT_13/LPLL0_T_IN1 | True_of_IOL5B | True | x16 | D12 |
| IOL5B/GCLKC_13/LPLL0_C_FB1 | I/O | 6 | DQ7 | GCLKC_13/LPLL0_C_FB1 | Comp_of_IOL5A | True | x16 | D11 |
| IOL7A | I/O | 6 | DQ7 | | True_of_IOL7B | True | x16 | A15 |
| IOL7B | I/O | 6 | DQ7 | | Comp_of_IOL7A | True | x16 | F11 |
| IOL9A | I/O | 6 | DQS7/DQ7 | | True_of_IOL9B | True | x16 | B14 |

注!
[1] EV版本封装。

| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | UG256C ^[1] |
|----------------------------|-----|------|------------|---------------------|----------------|------|------|-----------------------|
| IOL9B | I/O | 6 | DQS7/DQ7 | | Comp_of_IOL9A | True | x16 | A14 |
| IOR12A | I/O | 2 | DQS2/DQ2 | | True_of_IOR12B | True | x16 | R7 |
| IOR12B | I/O | 2 | DQS2/DQ2 | | Comp_of_IOR12A | True | x16 | T7 |
| IOR14A | I/O | 2 | DQ2 | | True_of_IOR14B | True | x16 | R6 |
| IOR14B | I/O | 2 | DQ2 | | Comp_of_IOR14A | True | x16 | T6 |
| IOR18A | I/O | 2 | DQ2/DQS_23 | | True_of_IOR18B | True | x16 | R5 |
| IOR18B | I/O | 2 | DQ2/DQS_23 | | Comp_of_IOR18A | True | x16 | T5 |
| IOR1A/TCK | I/O | 10 | none | TCK | | none | none | H3 |
| IOR1B/TDI | I/O | 10 | none | TDI | | none | none | H4 |
| IOR20A | I/O | 2 | DQ3 | | True_of_IOR20B | True | x16 | P6 |
| IOR20B | I/O | 2 | DQ3 | | Comp_of_IOR20A | True | x16 | M6 |
| IOR22A | I/O | 2 | DQ3 | | True_of_IOR22B | True | x16 | N5 |
| IOR22B | I/O | 2 | DQ3 | | Comp_of_IOR22A | True | x16 | N6 |
| IOR24A | I/O | 2 | DQ3 | | True_of_IOR24B | True | x16 | R3 |
| IOR24B | I/O | 2 | DQ3 | | Comp_of_IOR24A | True | x16 | T3 |
| IOR26A | I/O | 2 | DQS3/DQ3 | | True_of_IOR26B | True | x16 | M7 |
| IOR26B | I/O | 2 | DQS3/DQ3 | | Comp_of_IOR26A | True | x16 | K8 |
| IOR29A | I/O | 2 | DQ3 | | True_of_IOR29B | True | x16 | N3 |
| IOR29B | I/O | 2 | DQ3 | | Comp_of_IOR29A | True | x16 | P3 |
| IOR31A/GCLKT_4/RPLL1_T_IN0 | I/O | 2 | DQ3 | GCLKT_4/RPLL1_T_IN0 | True_of_IOR31B | True | x16 | R4 |
| IOR31B/GCLKC_4/RPLL1_C_FB1 | I/O | 2 | DQ3 | GCLKC_4/RPLL1_C_FB1 | Comp_of_IOR31A | True | x16 | T4 |
| IOR33A/GCLKT_5/RPLL1_T_IN1 | I/O | 2 | none | GCLKT_5/RPLL1_T_IN1 | True_of_IOR33B | True | x16 | T2 |
| IOR33B/GCLKC_5/RPLL1_C_FB0 | I/O | 2 | none | GCLKC_5/RPLL1_C_FB0 | Comp_of_IOR33A | True | x16 | L7 |
| IOR3A/TMS | I/O | 10 | none | TMS | | none | none | J5 |
| IOR3B/TDO | I/O | 10 | none | TDO | | none | none | J4 |
| IOR5A | I/O | 2 | none | | True_of_IOR5B | True | x16 | R8 |
| IOR5B | I/O | 2 | none | | Comp_of_IOR5A | True | x16 | T8 |
| IOR7A | I/O | 2 | DQ2 | | True_of_IOR7B | True | x16 | N8 |
| IOR7B | I/O | 2 | DQ2 | | Comp_of_IOR7A | True | x16 | P8 |
| IOR9A | I/O | 2 | DQ2 | | True_of_IOR9B | True | x16 | L8 |
| IOR9B | I/O | 2 | DQ2 | | Comp_of_IOR9A | True | x16 | M8 |

注!
[1] EV版本封装。

| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | UG256C ^[1] |
|----------------------------|-----|------|------|----------------------|----------------|------|-----|-----------------------|
| IOT13A | I/O | 7 | none | | True_of_IOT13B | True | x16 | D15 |
| IOT13B | I/O | 7 | none | | Comp_of_IOT13A | True | x16 | D16 |
| IOT19A/EMCCLK | I/O | 7 | none | EMCCLK | True_of_IOT19B | True | x16 | F15 |
| IOT19B/CSO_B | I/O | 7 | none | CSO_B | Comp_of_IOT19A | True | x16 | F16 |
| IOT1A/GCLKT_15/LPLL0_T_IN0 | I/O | 7 | none | GCLKT_15/LPLL0_T_IN0 | True_of_IOT1B | True | x16 | F14 |
| IOT1B/GCLKC_15 | I/O | 7 | none | GCLKC_15 | Comp_of_IOT1A | True | x16 | B16 |
| IOT21A | I/O | 7 | none | | True_of_IOT21B | True | x16 | G11 |
| IOT21B | I/O | 7 | none | | Comp_of_IOT21A | True | x16 | F13 |
| IOT23A | I/O | 7 | none | | True_of_IOT23B | True | x16 | G15 |
| IOT23B | I/O | 7 | none | | Comp_of_IOT23A | True | x16 | G16 |
| IOT25A/MODE0 | I/O | 7 | none | MODE0 | True_of_IOT25B | True | x16 | H13 |
| IOT25B/MODE1 | I/O | 7 | none | MODE1 | Comp_of_IOT25A | True | x16 | H12 |
| IOT27A/MODE2 | I/O | 7 | none | MODE2 | True_of_IOT27B | True | x16 | G12 |
| IOT27B/DONE | I/O | 7 | none | DONE | Comp_of_IOT27A | True | x16 | H14 |
| IOT31A | I/O | 0 | none | | True_of_IOT31B | True | x16 | J12 |
| IOT31B | I/O | 0 | none | | Comp_of_IOT31A | True | x16 | J14 |
| IOT33A | I/O | 0 | none | | True_of_IOT33B | True | x16 | J15 |
| IOT33B | I/O | 0 | none | | Comp_of_IOT33A | True | x16 | J16 |
| IOT37A | I/O | 0 | none | | True_of_IOT37B | True | x16 | L15 |
| IOT37B | I/O | 0 | none | | Comp_of_IOT37A | True | x16 | L16 |
| IOT39A | I/O | 0 | none | | True_of_IOT39B | True | x16 | J13 |
| IOT39B | I/O | 0 | none | | Comp_of_IOT39A | True | x16 | L13 |
| IOT3A/GCLKT_16 | I/O | 7 | none | GCLKT_16 | True_of_IOT3B | True | x16 | E15 |
| IOT3B/GCLKC_16 | I/O | 7 | none | GCLKC_16 | Comp_of_IOT3A | True | x16 | E16 |
| IOT41A | I/O | 0 | none | | True_of_IOT41B | True | x16 | L14 |
| IOT43A | I/O | 0 | none | | True_of_IOT43B | True | x16 | J11 |
| IOT43B | I/O | 0 | none | | Comp_of_IOT43A | True | x16 | K12 |
| IOT45A | I/O | 0 | none | | True_of_IOT45B | True | x16 | N15 |
| IOT45B | I/O | 0 | none | | Comp_of_IOT45A | True | x16 | N16 |
| IOT48A | I/O | 0 | none | | True_of_IOT48B | True | x16 | L12 |
| IOT48B | I/O | 0 | none | | Comp_of_IOT48A | True | x16 | K11 |
| IOT50A | I/O | 0 | none | | True_of_IOT50B | True | x16 | R16 |
| IOT50B | I/O | 0 | none | | Comp_of_IOT50A | True | x16 | P16 |

注!
[1] EV版本封装。

| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | UG256C ^[1] |
|----------------------------|-----|------|------------|---------------------|----------------|------|-----|-----------------------|
| IOT52A | I/O | 0 | none | | True_of_IOT52B | True | x16 | N14 |
| IOT52B | I/O | 0 | none | | Comp_of_IOT52A | True | x16 | P15 |
| IOT54A | I/O | 0 | none | | True_of_IOT54B | True | x16 | N13 |
| IOT54B | I/O | 0 | none | | Comp_of_IOT54A | True | x16 | M12 |
| IOT56A/GCLKT_0/TPLL_T_IN1 | I/O | 0 | none | GCLKT_0/TPLL_T_IN1 | True_of_IOT56B | True | x16 | K15 |
| IOT56B/GCLKC_0/TPLL_C_FB1 | I/O | 0 | none | GCLKC_0/TPLL_C_FB1 | Comp_of_IOT56A | True | x16 | K16 |
| IOT58A/GCLKT_1/TPLL_T_IN2 | I/O | 0 | none | GCLKT_1/TPLL_T_IN2 | True_of_IOT58B | True | x16 | M15 |
| IOT58B/GCLKC_1/TPLL_C_FB0 | I/O | 0 | none | GCLKC_1/TPLL_C_FB0 | Comp_of_IOT58A | True | x16 | M16 |
| IOT61A/GCLKT_2/TPLL_T_IN0 | I/O | 1 | DQS0/DQ0 | GCLKT_2/TPLL_T_IN0 | True_of_IOT61B | True | x16 | T14 |
| IOT61B/GCLKC_2 | I/O | 1 | DQS0/DQ0 | GCLKC_2 | Comp_of_IOT61A | True | x16 | T15 |
| IOT63A/GCLKT_3/RPLL0_T_IN0 | I/O | 1 | DQ0 | GCLKT_3/RPLL0_T_IN0 | True_of_IOT63B | True | x16 | P14 |
| IOT63B/GCLKC_3 | I/O | 1 | DQ0 | GCLKC_3 | Comp_of_IOT63A | True | x16 | L11 |
| IOT66A | I/O | 1 | DQ0 | | True_of_IOT66B | True | x16 | R14 |
| IOT70A | I/O | 1 | DQ0 | | True_of_IOT70B | True | x16 | M11 |
| IOT70B | I/O | 1 | DQ0 | | Comp_of_IOT70A | True | x16 | N12 |
| IOT72A | I/O | 1 | DQ0 | | True_of_IOT72B | True | x16 | R13 |
| IOT72B | I/O | 1 | DQ0 | | Comp_of_IOT72A | True | x16 | T13 |
| IOT74A | I/O | 1 | DQ1/DQS_01 | | True_of_IOT74B | True | x16 | K10 |
| IOT74B | I/O | 1 | DQ1/DQS_01 | | Comp_of_IOT74A | True | x16 | L10 |
| IOT76A | I/O | 1 | DQ1 | | True_of_IOT76B | True | x16 | R12 |
| IOT76B | I/O | 1 | DQ1 | | Comp_of_IOT76A | True | x16 | T12 |
| IOT78A | I/O | 1 | DQ1 | | True_of_IOT78B | True | x16 | M10 |
| IOT78B | I/O | 1 | DQ1 | | Comp_of_IOT78A | True | x16 | N11 |
| IOT80A | I/O | 1 | DQS1/DQ1 | | True_of_IOT80B | True | x16 | R10 |
| IOT80B | I/O | 1 | DQS1/DQ1 | | Comp_of_IOT80A | True | x16 | T10 |
| IOT83A | I/O | 1 | DQ1 | | True_of_IOT83B | True | x16 | R11 |
| IOT83B | I/O | 1 | DQ1 | | Comp_of_IOT83A | True | x16 | T11 |
| IOT85A | I/O | 1 | DQ1 | | True_of_IOT85B | True | x16 | M9 |
| IOT85B | I/O | 1 | DQ1 | | Comp_of_IOT85A | True | x16 | N9 |
| IOT87A | I/O | 1 | none | | True_of_IOT87B | True | x16 | K9 |
| IOT87B | I/O | 1 | none | | Comp_of_IOT87A | True | x16 | L9 |

注!
[1] EV版本封装。

| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | UG256C ^[1] |
|--------------------|-------|------|------|-------------|----------------|------|-----|-----------------------|
| IOT89A/RPLL0_T_FB1 | I/O | 1 | none | RPLL0_T_FB1 | True_of_IOT89B | True | x16 | P9 |
| IOT89B | I/O | 1 | none | | Comp_of_IOT89A | True | x16 | P11 |
| IOT91A/RPLL0_T_IN1 | I/O | 1 | none | RPLL0_T_IN1 | True_of_IOT91B | True | x16 | R9 |
| IOT91B/RPLL0_C_FB0 | I/O | 1 | none | RPLL0_C_FB0 | Comp_of_IOT91A | True | x16 | T9 |
| IOT9A | I/O | 7 | none | | True_of_IOT9B | True | x16 | C15 |
| IOT9B | I/O | 7 | none | | Comp_of_IOT9A | True | x16 | C16 |
| VCC/VCCC | Power | N/A | | | | | | |
| VCC/VCCC | Power | N/A | | | | | | |
| VCC/VCCC | Power | N/A | | | | | | |
| VCC/VCCC | Power | N/A | | | | | | |
| VCC/VCCC | Power | N/A | | | | | | |
| VCC/VCCC | Power | N/A | | | | | | |
| VCC/VCCC | Power | N/A | | | | | | |
| VCC/VCCC | Power | N/A | | | | | | |
| VCC/VCCC | Power | N/A | | | | | | |
| VCC_EXT | Power | N/A | | | | | | H11 |
| VCC_EXT | Power | N/A | | | | | | H6 |
| VCC_EXT | Power | N/A | | | | | | G8 |
| VCC_EXT | Power | N/A | | | | | | G7 |
| VCC_EXT | Power | N/A | | | | | | D13 |
| VCC_EXT | Power | N/A | | | | | | N4 |
| VCC_EXT | Power | N/A | | | | | | G10 |
| VCC_EXT | Power | N/A | | | | | | K7 |
| VCC_EXT | Power | N/A | | | | | | G6 |
| VCC_REG | Power | N/A | | | | | | G9 |
| VCCIO0 | Power | N/A | | | | | | M14 |
| VCCIO0 | Power | N/A | | | | | | K14 |
| VCCIO1 | Power | N/A | | | | | | P10 |
| VCCIO1 | Power | N/A | | | | | | P13 |
| VCCIO1 | Power | N/A | | | | | | T16 |
| VCCIO10/VCCIO4 | Power | N/A | | | | | | G3 |
| VCCIO10/VCCIO4 | Power | N/A | | | | | | E3 |
| VCCIO2 | Power | N/A | | | | | | P4 |

注!
[1] EV版本封装。

| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | UG256C ^[1] |
|--------|--------|------|-----|------|--------|------|-----|-----------------------|
| VCCIO2 | Power | N/A | | | | | | P7 |
| VCCIO2 | Power | N/A | | | | | | T1 |
| VCCIO3 | Power | N/A | | | | | | K3 |
| VCCIO3 | Power | N/A | | | | | | M3 |
| VCCIO5 | Power | N/A | | | | | | C7 |
| VCCIO5 | Power | N/A | | | | | | A1 |
| VCCIO5 | Power | N/A | | | | | | C4 |
| VCCIO6 | Power | N/A | | | | | | C13 |
| VCCIO6 | Power | N/A | | | | | | A16 |
| VCCIO6 | Power | N/A | | | | | | C10 |
| VCCIO7 | Power | N/A | | | | | | G14 |
| VCCIO7 | Power | N/A | | | | | | E14 |
| VCCX | Power | N/A | | | | | | F12 |
| VCCX | Power | N/A | | | | | | L5 |
| VQPS | Power | N/A | | | | | | M5 |
| VSS | Ground | N/A | | | | | | E12 |
| VSS | Ground | N/A | | | | | | H7 |
| VSS | Ground | N/A | | | | | | H8 |
| VSS | Ground | N/A | | | | | | H9 |
| VSS | Ground | N/A | | | | | | H10 |
| VSS | Ground | N/A | | | | | | J7 |
| VSS | Ground | N/A | | | | | | J8 |
| VSS | Ground | N/A | | | | | | J9 |
| VSS | Ground | N/A | | | | | | J10 |
| VSS | Ground | N/A | | | | | | B2 |
| VSS | Ground | N/A | | | | | | B15 |
| VSS | Ground | N/A | | | | | | C5 |
| VSS | Ground | N/A | | | | | | C12 |
| VSS | Ground | N/A | | | | | | D7 |
| VSS | Ground | N/A | | | | | | D10 |
| VSS | Ground | N/A | | | | | | E4 |
| VSS | Ground | N/A | | | | | | E13 |
| VSS | Ground | N/A | | | | | | G4 |

注!
 [1] EV版本封装。

| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | UG256C ^[1] |
|------|--------|------|-----|------|--------|------|-----|-----------------------|
| VSS | Ground | N/A | | | | | | G13 |
| VSS | Ground | N/A | | | | | | K4 |
| VSS | Ground | N/A | | | | | | K13 |
| VSS | Ground | N/A | | | | | | M4 |
| VSS | Ground | N/A | | | | | | M13 |
| VSS | Ground | N/A | | | | | | N7 |
| VSS | Ground | N/A | | | | | | N10 |
| VSS | Ground | N/A | | | | | | P5 |
| VSS | Ground | N/A | | | | | | P12 |
| VSS | Ground | N/A | | | | | | R2 |
| VSS | Ground | N/A | | | | | | R15 |
| VSS | Ground | N/A | | | | | | E2 |
| VSS | Ground | N/A | | | | | | H16 |
| VSS | Ground | N/A | | | | | | H15 |

注!
[1] EV版本封装。

| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | PG256C ^[1] |
|--|-----|------|------|---------------------------------------|----------------|------|-----|-----------------------|
| IOB10A/D06/SSPI_CS_N | I/O | 5 | none | D06/SSPI_CS_N | True_of_IOB10B | True | x16 | E6 |
| IOB10B/D05/SI/SSI0 | I/O | 5 | none | D05/SI/SSI0 | Comp_of_IOB10A | True | x16 | E7 |
| IOB12A/GCLKT_10B/D15/SSPI_WP PN/SSI2 | I/O | 5 | none | GCLKT_10B/D15/SSPI_WP N/SSI2 | True_of_IOB12B | True | x16 | C6 |
| IOB12B/GCLKC_10B/D07/DOUT/L PLL1_C_IN1 | I/O | 5 | none | GCLKC_10B/D07/DOUT/LP LL1_C_IN1 | Comp_of_IOB12A | True | x16 | A5 |
| IOB14A/SSPI_CLK | I/O | 5 | none | SSPI_CLK | True_of_IOB14B | True | x16 | B6 |
| IOB14B/CLKHOLD_N/SSI3 | I/O | 5 | none | CLKHOLD_N/SSI3 | Comp_of_IOB14A | True | x16 | A6 |
| IOB16A | I/O | 5 | none | | True_of_IOB16B | True | x16 | D6 |
| IOB16B | I/O | 5 | none | | Comp_of_IOB16A | True | x16 | D5 |
| IOB18A | I/O | 5 | none | | True_of_IOB18B | True | x16 | B4 |
| IOB18B | I/O | 5 | none | | Comp_of_IOB18A | True | x16 | A4 |
| IOB20A | I/O | 5 | none | | True_of_IOB20B | True | x16 | F7 |
| IOB20B | I/O | 5 | none | | Comp_of_IOB20A | True | x16 | F6 |
| IOB22A | I/O | 5 | none | | True_of_IOB22B | True | x16 | B5 |
| IOB22B | I/O | 5 | none | | Comp_of_IOB22A | True | x16 | A2 |
| IOB24A | I/O | 5 | none | | True_of_IOB24B | True | x16 | D3 |
| IOB24B | I/O | 5 | none | | Comp_of_IOB24A | True | x16 | C3 |
| IOB26A/GCLKT_9B | I/O | 5 | none | GCLKT_9B | True_of_IOB26B | True | x16 | B3 |
| IOB26B/GCLKC_9B | I/O | 5 | none | GCLKC_9B | Comp_of_IOB26A | True | x16 | A3 |
| IOB29A/GCLKT_11A | I/O | 4 | none | GCLKT_11A | True_of_IOB29B | True | x16 | B1 |
| IOB29B/GCLKC_11A | I/O | 4 | none | GCLKC_11A | Comp_of_IOB29A | True | x16 | D4 |
| IOB2A | I/O | 5 | none | | True_of_IOB2B | True | x16 | B8 |
| IOB2B | I/O | 5 | none | | Comp_of_IOB2A | True | x16 | A8 |
| IOB31A/GCLKT_10A/D14 | I/O | 4 | none | GCLKT_10A/D14 | True_of_IOB31B | True | x16 | C2 |
| IOB31B/GCLKC_10A/D01/MOSI/MI 0/BPLL_C_FB0 | I/O | 4 | none | GCLKC_10A/D01/MOSI/MI 0/BPLL_C_FB0 | Comp_of_IOB31A | True | x16 | C1 |
| IOB33A/GCLKT_9A/D13/MCS_N/B PLL_T_IN1 | I/O | 4 | none | GCLKT_9A/D13/MCS_N/BP LL_T_IN1 | True_of_IOB33B | True | x16 | D2 |
| IOB33B/GCLKC_9A | I/O | 4 | none | GCLKC_9A | Comp_of_IOB33A | True | x16 | D1 |
| IOB35A/GCLKT_8 | I/O | 4 | none | GCLKT_8 | True_of_IOB35B | True | x16 | E5 |
| IOB35B/GCLKC_8 | I/O | 4 | none | GCLKC_8 | Comp_of_IOB35A | True | x16 | E1 |
| IOB37A/D08 | I/O | 4 | none | D08 | True_of_IOB37B | True | x16 | G5 |

注!
[1] EV版本封装。

| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | PG256C ^[1] |
|---------------------------------|-----|------|------------|--------------------------|----------------|------|------|-----------------------|
| IOB37B | I/O | 4 | none | | Comp_of_IOB37A | True | x16 | F5 |
| IOB45A | I/O | 4 | none | | True_of_IOB45B | True | x16 | F3 |
| IOB4A/D04/SDA | I/O | 5 | none | D04/SDA | True_of_IOB4B | True | x16 | B7 |
| IOB4B/D09/SCL/LPLL1_C_FB0 | I/O | 5 | none | D09/SCL/LPLL1_C_FB0 | Comp_of_IOB4A | True | x16 | A7 |
| IOB50A/D11 | I/O | 4 | none | D11 | True_of_IOB50B | True | x16 | F2 |
| IOB50B/D12 | I/O | 4 | none | D12 | Comp_of_IOB50A | True | x16 | F1 |
| IOB52A/RECONFIG_N | I/O | 4 | none | RECONFIG_N | True_of_IOB52B | True | x16 | H5 |
| IOB54A/GCLKT_11B/D10/MI2 | I/O | 4 | none | GCLKT_11B/D10/MI2 | True_of_IOB54B | True | x16 | G2 |
| IOB54B/GCLKC_11B/MI3/BPLL_C_FB1 | I/O | 4 | none | GCLKC_11B/MI3/BPLL_C_FB1 | Comp_of_IOB54A | True | x16 | G1 |
| IOB58A/D00/MISO/MI1/DIN | I/O | 4 | none | D00/MISO/MI1/DIN | True_of_IOB58B | True | x16 | H2 |
| IOB62A/CCLK | I/O | 4 | none | CCLK | True_of_IOB62B | True | x16 | H1 |
| IOB62B/CSI_B | I/O | 4 | none | CSI_B | Comp_of_IOB62A | True | x16 | J3 |
| IOB64A/READY | I/O | 4 | none | READY | | none | none | F4 |
| IOB65A | I/O | 3 | none | | True_of_IOB65B | True | x16 | J6 |
| IOB65B | I/O | 3 | none | | Comp_of_IOB65A | True | x16 | L3 |
| IOB69A | I/O | 3 | DQ5 | | True_of_IOB69B | True | x16 | J2 |
| IOB69B | I/O | 3 | DQ5 | | Comp_of_IOB69A | True | x16 | J1 |
| IOB6A | I/O | 5 | none | | True_of_IOB6B | True | x16 | C8 |
| IOB6B | I/O | 5 | none | | Comp_of_IOB6A | True | x16 | D8 |
| IOB71A | I/O | 3 | DQ5 | | True_of_IOB71B | True | x16 | K2 |
| IOB71B | I/O | 3 | DQ5 | | Comp_of_IOB71A | True | x16 | K1 |
| IOB73A | I/O | 3 | DQ5 | | True_of_IOB73B | True | x16 | K5 |
| IOB73B | I/O | 3 | DQ5 | | Comp_of_IOB73A | True | x16 | L4 |
| IOB75A/GCLKT_6B | I/O | 3 | DQS5/DQ5 | GCLKT_6B | True_of_IOB75B | True | x16 | L2 |
| IOB75B/GCLKC_6B | I/O | 3 | DQS5/DQ5 | GCLKC_6B | Comp_of_IOB75A | True | x16 | L1 |
| IOB77A | I/O | 3 | DQ5 | | True_of_IOB77B | True | x16 | N2 |
| IOB77B | I/O | 3 | DQ5 | | Comp_of_IOB77A | True | x16 | N1 |
| IOB79A | I/O | 3 | DQ5/DQS_45 | | True_of_IOB79B | True | x16 | P2 |
| IOB79B | I/O | 3 | DQ5/DQS_45 | | Comp_of_IOB79A | True | x16 | P1 |
| IOB85B | I/O | 3 | DQS4/DQ4 | | Comp_of_IOB85A | True | x16 | R1 |

注!
[1] EV版本封装。

| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | PG256C ^[1] |
|----------------------------|-----|------|------------|----------------------|----------------|------|-----|-----------------------|
| IOB89A/GCLKT_7/BPLL_T_IN0 | I/O | 3 | DQ4 | GCLKT_7/BPLL_T_IN0 | True_of_I0B89B | True | x16 | M2 |
| I0B89B/GCLKC_7 | I/O | 3 | DQ4 | GCLKC_7 | Comp_of_I0B89A | True | x16 | M1 |
| I0B8A/D03/SO/SS11 | I/O | 5 | none | D03/SO/SS11 | True_of_I0B8B | True | x16 | F8 |
| I0B8B/D02 | I/O | 5 | none | D02 | Comp_of_I0B8A | True | x16 | E8 |
| I0B91A/GCLKT_6A | I/O | 3 | DQ4 | GCLKT_6A | True_of_I0B91B | True | x16 | K6 |
| I0B91B/GCLKC_6A | I/O | 3 | DQ4 | GCLKC_6A | Comp_of_I0B91A | True | x16 | L6 |
| IOL12A | I/O | 6 | DQ7 | | True_of_IOL12B | True | x16 | E11 |
| IOL12B | I/O | 6 | DQ7 | | Comp_of_IOL12A | True | x16 | E10 |
| IOL14A/LPLL1_T_IN0 | I/O | 6 | DQ7 | LPLL1_T_IN0 | True_of_IOL14B | True | x16 | F9 |
| IOL14B | I/O | 6 | DQ7 | | Comp_of_IOL14A | True | x16 | F10 |
| IOL16A | I/O | 6 | DQ6/DQS_67 | | True_of_IOL16B | True | x16 | B13 |
| IOL16B | I/O | 6 | DQ6/DQS_67 | | Comp_of_IOL16A | True | x16 | A13 |
| IOL18A | I/O | 6 | DQ6 | | True_of_IOL18B | True | x16 | B12 |
| IOL18B | I/O | 6 | DQ6 | | Comp_of_IOL18A | True | x16 | A12 |
| IOL21A | I/O | 6 | DQS6/DQ6 | | True_of_IOL21B | True | x16 | C11 |
| IOL21B | I/O | 6 | DQS6/DQ6 | | Comp_of_IOL21A | True | x16 | E9 |
| IOL23A | I/O | 6 | DQ6 | | True_of_IOL23B | True | x16 | B11 |
| IOL23B | I/O | 6 | DQ6 | | Comp_of_IOL23A | True | x16 | A11 |
| IOL25A | I/O | 6 | DQ6 | | True_of_IOL25B | True | x16 | B10 |
| IOL25B | I/O | 6 | DQ6 | | Comp_of_IOL25A | True | x16 | A10 |
| IOL27A | I/O | 6 | DQ6 | | True_of_IOL27B | True | x16 | D9 |
| IOL27B | I/O | 6 | DQ6 | | Comp_of_IOL27A | True | x16 | C9 |
| IOL29A | I/O | 6 | none | | True_of_IOL29B | True | x16 | B9 |
| IOL29B | I/O | 6 | none | | Comp_of_IOL29A | True | x16 | A9 |
| IOL3A/GCLKT_14/LPLL0_T_IN2 | I/O | 6 | DQ7 | GCLKT_14/LPLL0_T_IN2 | True_of_IOL3B | True | x16 | D14 |
| IOL3B/GCLKC_14/LPLL0_C_FB0 | I/O | 6 | DQ7 | GCLKC_14/LPLL0_C_FB0 | Comp_of_IOL3A | True | x16 | C14 |
| IOL5A/GCLKT_13/LPLL0_T_IN1 | I/O | 6 | DQ7 | GCLKT_13/LPLL0_T_IN1 | True_of_IOL5B | True | x16 | D12 |
| IOL5B/GCLKC_13/LPLL0_C_FB1 | I/O | 6 | DQ7 | GCLKC_13/LPLL0_C_FB1 | Comp_of_IOL5A | True | x16 | D11 |
| IOL7A | I/O | 6 | DQ7 | | True_of_IOL7B | True | x16 | A15 |
| IOL7B | I/O | 6 | DQ7 | | Comp_of_IOL7A | True | x16 | F11 |
| IOL9A | I/O | 6 | DQS7/DQ7 | | True_of_IOL9B | True | x16 | B14 |

注!
[1] EV版本封装。

| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | PG256C ^[1] |
|----------------------------|-----|------|------------|---------------------|----------------|------|------|-----------------------|
| IOL9B | I/O | 6 | DQS7/DQ7 | | Comp_of_IOL9A | True | x16 | A14 |
| IOR12A | I/O | 2 | DQS2/DQ2 | | True_of_IOR12B | True | x16 | R7 |
| IOR12B | I/O | 2 | DQS2/DQ2 | | Comp_of_IOR12A | True | x16 | T7 |
| IOR14A | I/O | 2 | DQ2 | | True_of_IOR14B | True | x16 | R6 |
| IOR14B | I/O | 2 | DQ2 | | Comp_of_IOR14A | True | x16 | T6 |
| IOR18A | I/O | 2 | DQ2/DQS_23 | | True_of_IOR18B | True | x16 | R5 |
| IOR18B | I/O | 2 | DQ2/DQS_23 | | Comp_of_IOR18A | True | x16 | T5 |
| IOR1A/TCK | I/O | 10 | none | TCK | | none | none | H3 |
| IOR1B/TDI | I/O | 10 | none | TDI | | none | none | H4 |
| IOR20A | I/O | 2 | DQ3 | | True_of_IOR20B | True | x16 | P6 |
| IOR20B | I/O | 2 | DQ3 | | Comp_of_IOR20A | True | x16 | M6 |
| IOR22A | I/O | 2 | DQ3 | | True_of_IOR22B | True | x16 | N5 |
| IOR22B | I/O | 2 | DQ3 | | Comp_of_IOR22A | True | x16 | N6 |
| IOR24A | I/O | 2 | DQ3 | | True_of_IOR24B | True | x16 | R3 |
| IOR24B | I/O | 2 | DQ3 | | Comp_of_IOR24A | True | x16 | T3 |
| IOR26A | I/O | 2 | DQS3/DQ3 | | True_of_IOR26B | True | x16 | M7 |
| IOR26B | I/O | 2 | DQS3/DQ3 | | Comp_of_IOR26A | True | x16 | K8 |
| IOR29A | I/O | 2 | DQ3 | | True_of_IOR29B | True | x16 | N3 |
| IOR29B | I/O | 2 | DQ3 | | Comp_of_IOR29A | True | x16 | P3 |
| IOR31A/GCLKT_4/RPLL1_T_IN0 | I/O | 2 | DQ3 | GCLKT_4/RPLL1_T_IN0 | True_of_IOR31B | True | x16 | R4 |
| IOR31B/GCLKC_4/RPLL1_C_FB1 | I/O | 2 | DQ3 | GCLKC_4/RPLL1_C_FB1 | Comp_of_IOR31A | True | x16 | T4 |
| IOR33A/GCLKT_5/RPLL1_T_IN1 | I/O | 2 | none | GCLKT_5/RPLL1_T_IN1 | True_of_IOR33B | True | x16 | T2 |
| IOR33B/GCLKC_5/RPLL1_C_FB0 | I/O | 2 | none | GCLKC_5/RPLL1_C_FB0 | Comp_of_IOR33A | True | x16 | L7 |
| IOR3A/TMS | I/O | 10 | none | TMS | | none | none | J5 |
| IOR3B/TDO | I/O | 10 | none | TDO | | none | none | J4 |
| IOR5A | I/O | 2 | none | | True_of_IOR5B | True | x16 | R8 |
| IOR5B | I/O | 2 | none | | Comp_of_IOR5A | True | x16 | T8 |
| IOR7A | I/O | 2 | DQ2 | | True_of_IOR7B | True | x16 | N8 |
| IOR7B | I/O | 2 | DQ2 | | Comp_of_IOR7A | True | x16 | P8 |
| IOR9A | I/O | 2 | DQ2 | | True_of_IOR9B | True | x16 | L8 |
| IOR9B | I/O | 2 | DQ2 | | Comp_of_IOR9A | True | x16 | M8 |

注!
[1] EV版本封装。

| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | PG256C ^[1] |
|----------------------------|-----|------|------|----------------------|----------------|------|-----|-----------------------|
| IOT13A | I/O | 7 | none | | True_of_IOT13B | True | x16 | D15 |
| IOT13B | I/O | 7 | none | | Comp_of_IOT13A | True | x16 | D16 |
| IOT19A/EMCCLK | I/O | 7 | none | EMCCLK | True_of_IOT19B | True | x16 | F15 |
| IOT19B/CSO_B | I/O | 7 | none | CSO_B | Comp_of_IOT19A | True | x16 | F16 |
| IOT1A/GCLKT_15/LPLL0_T_IN0 | I/O | 7 | none | GCLKT_15/LPLL0_T_IN0 | True_of_IOT1B | True | x16 | F14 |
| IOT1B/GCLKC_15 | I/O | 7 | none | GCLKC_15 | Comp_of_IOT1A | True | x16 | B16 |
| IOT21A | I/O | 7 | none | | True_of_IOT21B | True | x16 | G11 |
| IOT21B | I/O | 7 | none | | Comp_of_IOT21A | True | x16 | F13 |
| IOT23A | I/O | 7 | none | | True_of_IOT23B | True | x16 | G15 |
| IOT23B | I/O | 7 | none | | Comp_of_IOT23A | True | x16 | G16 |
| IOT25A/MODE0 | I/O | 7 | none | MODE0 | True_of_IOT25B | True | x16 | H13 |
| IOT25B/MODE1 | I/O | 7 | none | MODE1 | Comp_of_IOT25A | True | x16 | H12 |
| IOT27A/MODE2 | I/O | 7 | none | MODE2 | True_of_IOT27B | True | x16 | G12 |
| IOT27B/DONE | I/O | 7 | none | DONE | Comp_of_IOT27A | True | x16 | H14 |
| IOT31A | I/O | 0 | none | | True_of_IOT31B | True | x16 | J12 |
| IOT31B | I/O | 0 | none | | Comp_of_IOT31A | True | x16 | J14 |
| IOT33A | I/O | 0 | none | | True_of_IOT33B | True | x16 | J15 |
| IOT33B | I/O | 0 | none | | Comp_of_IOT33A | True | x16 | J16 |
| IOT37A | I/O | 0 | none | | True_of_IOT37B | True | x16 | L15 |
| IOT37B | I/O | 0 | none | | Comp_of_IOT37A | True | x16 | L16 |
| IOT39A | I/O | 0 | none | | True_of_IOT39B | True | x16 | J13 |
| IOT39B | I/O | 0 | none | | Comp_of_IOT39A | True | x16 | L13 |
| IOT3A/GCLKT_16 | I/O | 7 | none | GCLKT_16 | True_of_IOT3B | True | x16 | E15 |
| IOT3B/GCLKC_16 | I/O | 7 | none | GCLKC_16 | Comp_of_IOT3A | True | x16 | E16 |
| IOT41A | I/O | 0 | none | | True_of_IOT41B | True | x16 | L14 |
| IOT43A | I/O | 0 | none | | True_of_IOT43B | True | x16 | J11 |
| IOT43B | I/O | 0 | none | | Comp_of_IOT43A | True | x16 | K12 |
| IOT45A | I/O | 0 | none | | True_of_IOT45B | True | x16 | N15 |
| IOT45B | I/O | 0 | none | | Comp_of_IOT45A | True | x16 | N16 |
| IOT48A | I/O | 0 | none | | True_of_IOT48B | True | x16 | L12 |
| IOT48B | I/O | 0 | none | | Comp_of_IOT48A | True | x16 | K11 |
| IOT50A | I/O | 0 | none | | True_of_IOT50B | True | x16 | R16 |
| IOT50B | I/O | 0 | none | | Comp_of_IOT50A | True | x16 | P16 |

注!
[1] EV版本封装。

| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | PG256C ^[1] |
|----------------------------|-----|------|------------|---------------------|----------------|------|-----|-----------------------|
| IOT52A | I/O | 0 | none | | True_of_IOT52B | True | x16 | N14 |
| IOT52B | I/O | 0 | none | | Comp_of_IOT52A | True | x16 | P15 |
| IOT54A | I/O | 0 | none | | True_of_IOT54B | True | x16 | N13 |
| IOT54B | I/O | 0 | none | | Comp_of_IOT54A | True | x16 | M12 |
| IOT56A/GCLKT_0/TPLL_T_IN1 | I/O | 0 | none | GCLKT_0/TPLL_T_IN1 | True_of_IOT56B | True | x16 | K15 |
| IOT56B/GCLKC_0/TPLL_C_FB1 | I/O | 0 | none | GCLKC_0/TPLL_C_FB1 | Comp_of_IOT56A | True | x16 | K16 |
| IOT58A/GCLKT_1/TPLL_T_IN2 | I/O | 0 | none | GCLKT_1/TPLL_T_IN2 | True_of_IOT58B | True | x16 | M15 |
| IOT58B/GCLKC_1/TPLL_C_FB0 | I/O | 0 | none | GCLKC_1/TPLL_C_FB0 | Comp_of_IOT58A | True | x16 | M16 |
| IOT61A/GCLKT_2/TPLL_T_IN0 | I/O | 1 | DQS0/DQ0 | GCLKT_2/TPLL_T_IN0 | True_of_IOT61B | True | x16 | T14 |
| IOT61B/GCLKC_2 | I/O | 1 | DQS0/DQ0 | GCLKC_2 | Comp_of_IOT61A | True | x16 | T15 |
| IOT63A/GCLKT_3/RPLL0_T_IN0 | I/O | 1 | DQ0 | GCLKT_3/RPLL0_T_IN0 | True_of_IOT63B | True | x16 | P14 |
| IOT63B/GCLKC_3 | I/O | 1 | DQ0 | GCLKC_3 | Comp_of_IOT63A | True | x16 | L11 |
| IOT66A | I/O | 1 | DQ0 | | True_of_IOT66B | True | x16 | R14 |
| IOT70A | I/O | 1 | DQ0 | | True_of_IOT70B | True | x16 | M11 |
| IOT70B | I/O | 1 | DQ0 | | Comp_of_IOT70A | True | x16 | N12 |
| IOT72A | I/O | 1 | DQ0 | | True_of_IOT72B | True | x16 | R13 |
| IOT72B | I/O | 1 | DQ0 | | Comp_of_IOT72A | True | x16 | T13 |
| IOT74A | I/O | 1 | DQ1/DQS_01 | | True_of_IOT74B | True | x16 | K10 |
| IOT74B | I/O | 1 | DQ1/DQS_01 | | Comp_of_IOT74A | True | x16 | L10 |
| IOT76A | I/O | 1 | DQ1 | | True_of_IOT76B | True | x16 | R12 |
| IOT76B | I/O | 1 | DQ1 | | Comp_of_IOT76A | True | x16 | T12 |
| IOT78A | I/O | 1 | DQ1 | | True_of_IOT78B | True | x16 | M10 |
| IOT78B | I/O | 1 | DQ1 | | Comp_of_IOT78A | True | x16 | N11 |
| IOT80A | I/O | 1 | DQS1/DQ1 | | True_of_IOT80B | True | x16 | R10 |
| IOT80B | I/O | 1 | DQS1/DQ1 | | Comp_of_IOT80A | True | x16 | T10 |
| IOT83A | I/O | 1 | DQ1 | | True_of_IOT83B | True | x16 | R11 |
| IOT83B | I/O | 1 | DQ1 | | Comp_of_IOT83A | True | x16 | T11 |
| IOT85A | I/O | 1 | DQ1 | | True_of_IOT85B | True | x16 | M9 |
| IOT85B | I/O | 1 | DQ1 | | Comp_of_IOT85A | True | x16 | N9 |
| IOT87A | I/O | 1 | none | | True_of_IOT87B | True | x16 | K9 |
| IOT87B | I/O | 1 | none | | Comp_of_IOT87A | True | x16 | L9 |

注!
[1] EV版本封装。

| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | PG256C ^[1] |
|--------------------|-------|------|------|-------------|----------------|------|-----|-----------------------|
| IOT89A/RPLL0_T_FB1 | I/O | 1 | none | RPLL0_T_FB1 | True_of_IOT89B | True | x16 | P9 |
| IOT89B | I/O | 1 | none | | Comp_of_IOT89A | True | x16 | P11 |
| IOT91A/RPLL0_T_IN1 | I/O | 1 | none | RPLL0_T_IN1 | True_of_IOT91B | True | x16 | R9 |
| IOT91B/RPLL0_C_FB0 | I/O | 1 | none | RPLL0_C_FB0 | Comp_of_IOT91A | True | x16 | T9 |
| IOT9A | I/O | 7 | none | | True_of_IOT9B | True | x16 | C15 |
| IOT9B | I/O | 7 | none | | Comp_of_IOT9A | True | x16 | C16 |
| VCC/VCCC | Power | N/A | | | | | | |
| VCC/VCCC | Power | N/A | | | | | | |
| VCC/VCCC | Power | N/A | | | | | | |
| VCC/VCCC | Power | N/A | | | | | | |
| VCC/VCCC | Power | N/A | | | | | | |
| VCC/VCCC | Power | N/A | | | | | | |
| VCC/VCCC | Power | N/A | | | | | | |
| VCC/VCCC | Power | N/A | | | | | | |
| VCC/VCCC | Power | N/A | | | | | | |
| VCC_EXT | Power | N/A | | | | | | H11 |
| VCC_EXT | Power | N/A | | | | | | H6 |
| VCC_EXT | Power | N/A | | | | | | G8 |
| VCC_EXT | Power | N/A | | | | | | G7 |
| VCC_EXT | Power | N/A | | | | | | D13 |
| VCC_EXT | Power | N/A | | | | | | N4 |
| VCC_EXT | Power | N/A | | | | | | G10 |
| VCC_EXT | Power | N/A | | | | | | K7 |
| VCC_EXT | Power | N/A | | | | | | G6 |
| VCC_REG | Power | N/A | | | | | | G9 |
| VCCIO0 | Power | N/A | | | | | | M14 |
| VCCIO0 | Power | N/A | | | | | | K14 |
| VCCIO1 | Power | N/A | | | | | | P10 |
| VCCIO1 | Power | N/A | | | | | | P13 |
| VCCIO1 | Power | N/A | | | | | | T16 |
| VCCIO10/VCCIO4 | Power | N/A | | | | | | G3 |
| VCCIO10/VCCIO4 | Power | N/A | | | | | | E3 |
| VCCIO2 | Power | N/A | | | | | | P4 |

注!
[1] EV版本封装。

| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | PG256C ^[1] |
|--------|--------|------|-----|------|--------|------|-----|-----------------------|
| VCCIO2 | Power | N/A | | | | | | P7 |
| VCCIO2 | Power | N/A | | | | | | T1 |
| VCCIO3 | Power | N/A | | | | | | K3 |
| VCCIO3 | Power | N/A | | | | | | M3 |
| VCCIO5 | Power | N/A | | | | | | C7 |
| VCCIO5 | Power | N/A | | | | | | A1 |
| VCCIO5 | Power | N/A | | | | | | C4 |
| VCCIO6 | Power | N/A | | | | | | C13 |
| VCCIO6 | Power | N/A | | | | | | A16 |
| VCCIO6 | Power | N/A | | | | | | C10 |
| VCCIO7 | Power | N/A | | | | | | G14 |
| VCCIO7 | Power | N/A | | | | | | E14 |
| VCCX | Power | N/A | | | | | | F12 |
| VCCX | Power | N/A | | | | | | L5 |
| VQPS | Power | N/A | | | | | | M5 |
| VSS | Ground | N/A | | | | | | E12 |
| VSS | Ground | N/A | | | | | | H7 |
| VSS | Ground | N/A | | | | | | H8 |
| VSS | Ground | N/A | | | | | | H9 |
| VSS | Ground | N/A | | | | | | H10 |
| VSS | Ground | N/A | | | | | | J7 |
| VSS | Ground | N/A | | | | | | J8 |
| VSS | Ground | N/A | | | | | | J9 |
| VSS | Ground | N/A | | | | | | J10 |
| VSS | Ground | N/A | | | | | | B2 |
| VSS | Ground | N/A | | | | | | B15 |
| VSS | Ground | N/A | | | | | | C5 |
| VSS | Ground | N/A | | | | | | C12 |
| VSS | Ground | N/A | | | | | | D7 |
| VSS | Ground | N/A | | | | | | D10 |
| VSS | Ground | N/A | | | | | | E4 |
| VSS | Ground | N/A | | | | | | E13 |
| VSS | Ground | N/A | | | | | | G4 |

注!
[1] EV版本封装。

| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | PG256C ^[1] |
|------|--------|------|-----|------|--------|------|-----|-----------------------|
| VSS | Ground | N/A | | | | | | G13 |
| VSS | Ground | N/A | | | | | | K4 |
| VSS | Ground | N/A | | | | | | K13 |
| VSS | Ground | N/A | | | | | | M4 |
| VSS | Ground | N/A | | | | | | M13 |
| VSS | Ground | N/A | | | | | | N7 |
| VSS | Ground | N/A | | | | | | N10 |
| VSS | Ground | N/A | | | | | | P5 |
| VSS | Ground | N/A | | | | | | P12 |
| VSS | Ground | N/A | | | | | | R2 |
| VSS | Ground | N/A | | | | | | R15 |
| VSS | Ground | N/A | | | | | | E2 |
| VSS | Ground | N/A | | | | | | H16 |
| VSS | Ground | N/A | | | | | | H15 |

| 注! | | | | | | | | |
|--------------------------------------|-----|------|------|-------------------------------|----------------|------|------|----------------------|
| [1] LV版本封装。 | | | | | | | | |
| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | PG256 ^[1] |
| IOB10A/D03/SSPI_CN | I/O | 5 | none | D03/SSPI_CN | True_of_IOB10B | True | x16 | N5 |
| IOB10B/D04/SI/SSI0 | I/O | 5 | none | D04/SI/SSI0 | Comp_of_IOB10A | True | x16 | P5 |
| IOB12A/GCLKT_10B/D07/SSPI_WP/SSI2 | I/O | 5 | none | GCLKT_10B/D07/SSPI_WP/SSI2 | True_of_IOB12B | True | x16 | R5 |
| IOB12B/GCLKC_10B/RDWR_B/LP/LL1_C_IN1 | I/O | 5 | none | GCLKC_10B/RDWR_B/LP/LL1_C_IN1 | Comp_of_IOB12A | True | x16 | T5 |
| IOB14A/SSPI_CLK | I/O | 5 | none | SSPI_CLK | True_of_IOB14B | True | x16 | P6 |
| IOB14B/CLKHOLD_N/SSI3 | I/O | 5 | none | CLKHOLD_N/SSI3 | Comp_of_IOB14A | True | x16 | T6 |
| IOB1A/RECONFIG_N | I/O | 5 | | RECONFIG_N | | none | none | T2 |
| IOB26A/GCLKT_9B | I/O | 5 | none | GCLKT_9B | True_of_IOB26B | True | x16 | R7 |
| IOB26B/GCLKC_9B | I/O | 5 | none | GCLKC_9B | Comp_of_IOB26A | True | x16 | T7 |
| IOB29A/GCLKT_11A | I/O | 4 | none | GCLKT_11A | True_of_IOB29B | True | x16 | M9 |
| IOB29B/GCLKC_11A | I/O | 4 | none | GCLKC_11A | Comp_of_IOB29A | True | x16 | N8 |
| IOB2A | I/O | 5 | none | | True_of_IOB2B | True | x16 | P4 |
| IOB2B | I/O | 5 | none | | Comp_of_IOB2A | True | x16 | T4 |
| IOB31A/GCLKT_10A/D14 | I/O | 4 | none | GCLKT_10A/D14 | True_of_IOB31B | True | x16 | P7 |
| IOB31B/GCLKC_10A/D15/BPLL_C_FB0 | I/O | 4 | none | GCLKC_10A/D15/BPLL_C_FB0 | Comp_of_IOB31A | True | x16 | M7 |
| IOB33A/GCLKT_9A/D13/BPLL_T_I_N1 | I/O | 4 | none | GCLKT_9A/D13/BPLL_T_I_N1 | True_of_IOB33B | True | x16 | P8 |
| IOB33B/GCLKC_9A/EMCCLK | I/O | 4 | none | GCLKC_9A/EMCCLK | Comp_of_IOB33A | True | x16 | T8 |
| IOB35A/GCLKT_8 | I/O | 4 | none | GCLKT_8 | True_of_IOB35B | True | x16 | R9 |
| IOB35B/GCLKC_8 | I/O | 4 | none | GCLKC_8 | Comp_of_IOB35A | True | x16 | T9 |
| IOB37A/READY | I/O | 4 | none | READY | True_of_IOB37B | True | x16 | R3 |
| IOB37B/MCS_N/CSO_B | I/O | 4 | none | MCS_N/CSO_B | Comp_of_IOB37A | True | x16 | T3 |
| IOB45A | I/O | 4 | none | | True_of_IOB45B | True | x16 | L10 |
| IOB45B | I/O | 4 | none | | Comp_of_IOB45A | True | x16 | M10 |
| IOB4A/D08/SDA | I/O | 5 | none | D08/SDA | True_of_IOB4B | True | x16 | M6 |
| IOB4B/D09/SCL/LPLL1_C_FB0 | I/O | 5 | none | D09/SCL/LPLL1_C_FB0 | Comp_of_IOB4A | True | x16 | N6 |
| IOB50A/D11 | I/O | 4 | none | D11 | True_of_IOB50B | True | x16 | N9 |
| IOB50B/D12 | I/O | 4 | none | D12 | Comp_of_IOB50A | True | x16 | P9 |

| 注！ | | | | | | | | |
|---|-----|------|------------|----------------------------------|----------------|------|------|----------------------|
| [1] LV版本封装。 | | | | | | | | |
| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | PG256 ^[1] |
| IOB52A/MODE1 | I/O | 4 | none | MODE1 | True_of_IOB52B | True | x16 | N11 |
| IOB52B/D10 | I/O | 4 | none | D10 | Comp_of_IOB52A | True | x16 | P11 |
| IOB54A/GCLKT_11B/D01/MI2/MI2 | I/O | 4 | none | GCLKT_11B/D01/MI2/MI2 | True_of_IOB54B | True | x16 | N12 |
| IOB54B/GCLKC_11B/D02/MI3/MI3/BPLL_C_FB1 | I/O | 4 | none | GCLKC_11B/D02/MI3/MI3/BPLL_C_FB1 | Comp_of_IOB54A | True | x16 | P12 |
| IOB56A | I/O | 4 | none | | True_of_IOB56B | True | x16 | L11 |
| IOB58A/D00/DIN/MISO/MI1/MI1 | I/O | 4 | none | D00/DIN/MISO/MI1/MI1 | True_of_IOB58B | True | x16 | P10 |
| IOB58B/MOSI/MI0/MI0/CSI_B | I/O | 4 | none | MOSI/MI0/MI0/CSI_B | Comp_of_IOB58A | True | x16 | T10 |
| IOB60A | I/O | 4 | none | | True_of_IOB60B | True | x16 | M12 |
| IOB60B | I/O | 4 | none | | Comp_of_IOB60A | True | x16 | M11 |
| IOB62A/CCLK | I/O | 4 | none | CCLK | True_of_IOB62B | True | x16 | R11 |
| IOB62B/MODE0 | I/O | 4 | none | MODE0 | Comp_of_IOB62A | True | x16 | T11 |
| IOB64A/DONE | I/O | 4 | | DONE | | none | none | P13 |
| IOB65A | I/O | 3 | none | | True_of_IOB65B | True | x16 | M13 |
| IOB65B/DOUT | I/O | 3 | none | DOUT | Comp_of_IOB65A | True | x16 | M14 |
| IOB69A | I/O | 3 | DQ5 | | True_of_IOB69B | True | x16 | L12 |
| IOB69B | I/O | 3 | DQ5 | | Comp_of_IOB69A | True | x16 | L13 |
| IOB71A | I/O | 3 | DQ5 | | True_of_IOB71B | True | x16 | R12 |
| IOB71B | I/O | 3 | DQ5 | | Comp_of_IOB71A | True | x16 | T12 |
| IOB73A | I/O | 3 | DQ5 | | True_of_IOB73B | True | x16 | T14 |
| IOB73B | I/O | 3 | DQ5 | | Comp_of_IOB73A | True | x16 | T13 |
| IOB75A/GCLKT_6B | I/O | 3 | DQS5/DQ5 | GCLKT_6B | True_of_IOB75B | True | x16 | R14 |
| IOB75B/GCLKC_6B | I/O | 3 | DQS5/DQ5 | GCLKC_6B | Comp_of_IOB75A | True | x16 | T15 |
| IOB77A | I/O | 3 | DQ5 | | True_of_IOB77B | True | x16 | R15 |
| IOB77B | I/O | 3 | DQ5 | | Comp_of_IOB77A | True | x16 | R16 |
| IOB79A | I/O | 3 | DQ5/DQS_45 | | True_of_IOB79B | True | x16 | P15 |

| 注！ | | | | | | | | |
|----------------------------|-----|------|------------|----------------------|----------------|------|-----|----------------------|
| [1] LV版本封装。 | | | | | | | | |
| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | PG256 ^[1] |
| IOB79B | I/O | 3 | DQ5/DQS_45 | | Comp_of_IOB79A | True | x16 | P16 |
| IOB81A | I/O | 3 | DQ4 | | True_of_IOB81B | True | x16 | L14 |
| IOB81B | I/O | 3 | DQ4 | | Comp_of_IOB81A | True | x16 | L16 |
| IOB83A | I/O | 3 | DQ4 | | True_of_IOB83B | True | x16 | M15 |
| IOB83B | I/O | 3 | DQ4 | | Comp_of_IOB83A | True | x16 | M16 |
| IOB85A | I/O | 3 | DQS4/DQ4 | | True_of_IOB85B | True | x16 | N14 |
| IOB85B | I/O | 3 | DQS4/DQ4 | | Comp_of_IOB85A | True | x16 | N16 |
| IOB87A | I/O | 3 | DQ4 | | True_of_IOB87B | True | x16 | K15 |
| IOB87B | I/O | 3 | DQ4 | | Comp_of_IOB87A | True | x16 | K16 |
| IOB89A/GCLKT_7/BPLL_T_IN0 | I/O | 3 | DQ4 | GCLKT_7/BPLL_T_IN0 | True_of_IOB89B | True | x16 | J14 |
| IOB89B/GCLKC_7 | I/O | 3 | DQ4 | GCLKC_7 | Comp_of_IOB89A | True | x16 | J16 |
| IOB8A/D05/SO/SSI1 | I/O | 5 | none | D05/SO/SSI1 | True_of_IOB8B | True | x16 | L8 |
| IOB8B/D06 | I/O | 5 | none | D06 | Comp_of_IOB8A | True | x16 | L7 |
| IOB91A/GCLKT_6A | I/O | 3 | DQ4 | GCLKT_6A | True_of_IOB91B | True | x16 | K12 |
| IOB91B/GCLKC_6A | I/O | 3 | DQ4 | GCLKC_6A | Comp_of_IOB91A | True | x16 | K11 |
| IOL12A | I/O | 6 | DQ7 | | True_of_IOL12B | True | x16 | J3 |
| IOL12B | I/O | 6 | DQ7 | | Comp_of_IOL12A | True | x16 | J1 |
| IOL14A/LPLL1_T_IN0 | I/O | 6 | DQ7 | LPLL1_T_IN0 | True_of_IOL14B | True | x16 | K2 |
| IOL14B | I/O | 6 | DQ7 | | Comp_of_IOL14A | True | x16 | K1 |
| IOL16A | I/O | 6 | DQ6/DQS_67 | | True_of_IOL16B | True | x16 | L3 |
| IOL16B | I/O | 6 | DQ6/DQS_67 | | Comp_of_IOL16A | True | x16 | L1 |
| IOL18A | I/O | 6 | DQ6 | | True_of_IOL18B | True | x16 | M2 |
| IOL18B | I/O | 6 | DQ6 | | Comp_of_IOL18A | True | x16 | M1 |
| IOL3A/GCLKT_14/LPLL0_T_IN2 | I/O | 6 | DQ7 | GCLKT_14/LPLL0_T_IN2 | True_of_IOL3B | True | x16 | K3 |
| IOL3B/GCLKC_14/LPLL0_C_FB0 | I/O | 6 | DQ7 | GCLKC_14/LPLL0_C_FB0 | Comp_of_IOL3A | True | x16 | J4 |
| IOL5A/GCLKT_13/LPLL0_T_IN1 | I/O | 6 | DQ7 | GCLKT_13/LPLL0_T_IN1 | True_of_IOL5B | True | x16 | F2 |
| IOL5B/GCLKC_13/LPLL0_C_FB1 | I/O | 6 | DQ7 | GCLKC_13/LPLL0_C_FB1 | Comp_of_IOL5A | True | x16 | F1 |
| IOL7A | I/O | 6 | DQ7 | | True_of_IOL7B | True | x16 | G3 |
| IOL7B | I/O | 6 | DQ7 | | Comp_of_IOL7A | True | x16 | G1 |
| IOL9A | I/O | 6 | DQS7/DQ7 | | True_of_IOL9B | True | x16 | H2 |
| IOL9B | I/O | 6 | DQS7/DQ7 | | Comp_of_IOL9A | True | x16 | H1 |

| 注！ | | | | | | | | |
|----------------------------|-----|------|------------|---------------------|----------------|------|------|----------------------|
| [1] LV版本封装。 | | | | | | | | |
| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | PG256 ^[1] |
| IOR12A | I/O | 2 | DQS2/DQ2 | | True_of_IOR12B | True | x16 | D14 |
| IOR12B | I/O | 2 | DQS2/DQ2 | | Comp_of_IOR12A | True | x16 | D16 |
| IOR14A | I/O | 2 | DQ2 | | True_of_IOR14B | True | x16 | F13 |
| IOR14B | I/O | 2 | DQ2 | | Comp_of_IOR14A | True | x16 | F14 |
| IOR16A | I/O | 2 | DQ2 | | True_of_IOR16B | True | x16 | C15 |
| IOR16B | I/O | 2 | DQ2 | | Comp_of_IOR16A | True | x16 | C16 |
| IOR18A | I/O | 2 | DQ2/DQS_23 | | True_of_IOR18B | True | x16 | E15 |
| IOR18B | I/O | 2 | DQ2/DQS_23 | | Comp_of_IOR18A | True | x16 | E16 |
| IOR1A/TCK | I/O | 10 | none | TCK | | none | none | C14 |
| IOR1B/TDI | I/O | 10 | none | TDI | | none | none | C12 |
| IOR20A | I/O | 2 | DQ3 | | True_of_IOR20B | True | x16 | F15 |
| IOR20B | I/O | 2 | DQ3 | | Comp_of_IOR20A | True | x16 | F16 |
| IOR22A | I/O | 2 | DQ3 | | True_of_IOR22B | True | x16 | G14 |
| IOR22B | I/O | 2 | DQ3 | | Comp_of_IOR22A | True | x16 | G16 |
| IOR24A | I/O | 2 | DQ3 | | True_of_IOR24B | True | x16 | H15 |
| IOR24B | I/O | 2 | DQ3 | | Comp_of_IOR24A | True | x16 | H16 |
| IOR26A | I/O | 2 | DQS3/DQ3 | | True_of_IOR26B | True | x16 | G12 |
| IOR26B | I/O | 2 | DQS3/DQ3 | | Comp_of_IOR26A | True | x16 | H11 |
| IOR29A | I/O | 2 | DQ3 | | True_of_IOR29B | True | x16 | H13 |
| IOR29B | I/O | 2 | DQ3 | | Comp_of_IOR29A | True | x16 | H14 |
| IOR31A/GCLKT_4/RPLL1_T_IN0 | I/O | 2 | DQ3 | GCLKT_4/RPLL1_T_IN0 | True_of_IOR31B | True | x16 | J11 |
| IOR31B/GCLKC_4/RPLL1_C_FB1 | I/O | 2 | DQ3 | GCLKC_4/RPLL1_C_FB1 | Comp_of_IOR31A | True | x16 | J12 |
| IOR33A/GCLKT_5/RPLL1_T_IN1 | I/O | 2 | none | GCLKT_5/RPLL1_T_IN1 | True_of_IOR33B | True | x16 | J13 |
| IOR33B/GCLKC_5/RPLL1_C_FB0 | I/O | 2 | none | GCLKC_5/RPLL1_C_FB0 | Comp_of_IOR33A | True | x16 | K14 |
| IOR35A | I/O | 11 | none | | | none | none | P14 |
| IOR3A/TMS | I/O | 10 | none | TMS | | none | none | A15 |
| IOR3B/TDO | I/O | 10 | none | TDO | | none | none | E14 |
| IOR5A | I/O | 2 | none | | True_of_IOR5B | True | x16 | E13 |
| IOR5B | I/O | 2 | none | | Comp_of_IOR5A | True | x16 | E12 |
| IOR7A | I/O | 2 | DQ2 | | True_of_IOR7B | True | x16 | B15 |
| IOR7B | I/O | 2 | DQ2 | | Comp_of_IOR7A | True | x16 | B16 |

注!
[1] LV版本封装。

| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | PG256 ^[1] |
|----------------------------|-----|------|------|----------------------|----------------|------|-----|----------------------|
| IOR9A | I/O | 2 | DQ2 | | True_of_IOR9B | True | x16 | F12 |
| IOR9B | I/O | 2 | DQ2 | | Comp_of_IOR9A | True | x16 | G11 |
| IOT11A | I/O | 7 | none | | True_of_IOT11B | True | x16 | F4 |
| IOT11B | I/O | 7 | none | | Comp_of_IOT11A | True | x16 | F3 |
| IOT13A | I/O | 7 | none | | True_of_IOT13B | True | x16 | E2 |
| IOT13B | I/O | 7 | none | | Comp_of_IOT13A | True | x16 | E1 |
| IOT15A | I/O | 7 | none | | True_of_IOT15B | True | x16 | F6 |
| IOT15B | I/O | 7 | none | | Comp_of_IOT15A | True | x16 | F5 |
| IOT17A | I/O | 7 | none | | True_of_IOT17B | True | x16 | E4 |
| IOT17B | I/O | 7 | none | | Comp_of_IOT17A | True | x16 | E3 |
| IOT19A | I/O | 7 | none | | True_of_IOT19B | True | x16 | D3 |
| IOT19B | I/O | 7 | none | | Comp_of_IOT19A | True | x16 | D1 |
| IOT1A/GCLKT_15/LPLL0_T_IN0 | I/O | 7 | none | GCLKT_15/LPLL0_T_IN0 | True_of_IOT1B | True | x16 | H4 |
| IOT1B/GCLKC_15 | I/O | 7 | none | GCLKC_15 | Comp_of_IOT1A | True | x16 | H3 |
| IOT21A | I/O | 7 | none | | True_of_IOT21B | True | x16 | C1 |
| IOT21B | I/O | 7 | none | | Comp_of_IOT21A | True | x16 | B1 |
| IOT23A | I/O | 7 | none | | True_of_IOT23B | True | x16 | C3 |
| IOT23B | I/O | 7 | none | | Comp_of_IOT23A | True | x16 | C2 |
| IOT25A | I/O | 7 | none | | True_of_IOT25B | True | x16 | B2 |
| IOT25B | I/O | 7 | none | | Comp_of_IOT25A | True | x16 | A2 |
| IOT27A | I/O | 7 | none | | True_of_IOT27B | True | x16 | B3 |
| IOT27B | I/O | 7 | none | | Comp_of_IOT27A | True | x16 | A3 |
| IOT29A/PUDC_B | I/O | 0 | none | PUDC_B | True_of_IOT29B | True | x16 | C4 |
| IOT29B | I/O | 0 | none | | Comp_of_IOT29A | True | x16 | A4 |
| IOT31A | I/O | 0 | none | | True_of_IOT31B | True | x16 | B5 |
| IOT31B | I/O | 0 | none | | Comp_of_IOT31A | True | x16 | A5 |
| IOT33A | I/O | 0 | none | | True_of_IOT33B | True | x16 | D5 |
| IOT33B | I/O | 0 | none | | Comp_of_IOT33A | True | x16 | C5 |
| IOT35A | I/O | 0 | none | | True_of_IOT35B | True | x16 | B6 |
| IOT35B | I/O | 0 | none | | Comp_of_IOT35A | True | x16 | A6 |
| IOT37A | I/O | 0 | none | | True_of_IOT37B | True | x16 | F7 |
| IOT37B | I/O | 0 | none | | Comp_of_IOT37A | True | x16 | E6 |

注！
[1] LV版本封装。

| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | PG256 ^[1] |
|----------------------------|-----|------|----------|---------------------|----------------|------|-----|----------------------|
| IOT39A | I/O | 0 | none | | True_of_IOT39B | True | x16 | C7 |
| IOT39B | I/O | 0 | none | | Comp_of_IOT39A | True | x16 | A7 |
| IOT3A/GCLKT_16 | I/O | 7 | none | GCLKT_16 | True_of_IOT3B | True | x16 | J6 |
| IOT3B/GCLKC_16 | I/O | 7 | none | GCLKC_16 | Comp_of_IOT3A | True | x16 | H5 |
| IOT41A | I/O | 0 | none | | True_of_IOT41B | True | x16 | D6 |
| IOT41B | I/O | 0 | none | | Comp_of_IOT41A | True | x16 | C6 |
| IOT54A | I/O | 0 | none | | True_of_IOT54B | True | x16 | B8 |
| IOT54B | I/O | 0 | none | | Comp_of_IOT54A | True | x16 | A8 |
| IOT56A/GCLKT_0/TPLL_T_IN1 | I/O | 0 | none | GCLKT_0/TPLL_T_IN1 | True_of_IOT56B | True | x16 | C9 |
| IOT56B/GCLKC_0/TPLL_C_FB1 | I/O | 0 | none | GCLKC_0/TPLL_C_FB1 | Comp_of_IOT56A | True | x16 | A9 |
| IOT58A/GCLKT_1/TPLL_T_IN2 | I/O | 0 | none | GCLKT_1/TPLL_T_IN2 | True_of_IOT58B | True | x16 | B10 |
| IOT58B/GCLKC_1/TPLL_C_FB0 | I/O | 0 | none | GCLKC_1/TPLL_C_FB0 | Comp_of_IOT58A | True | x16 | A10 |
| IOT5A | I/O | 7 | none | | True_of_IOT5B | True | x16 | L4 |
| IOT5B | I/O | 7 | none | | Comp_of_IOT5A | True | x16 | L5 |
| IOT61A/GCLKT_2/TPLL_T_IN0 | I/O | 1 | DQS0/DQ0 | GCLKT_2/TPLL_T_IN0 | True_of_IOT61B | True | x16 | E7 |
| IOT61B/GCLKC_2 | I/O | 1 | DQS0/DQ0 | GCLKC_2 | Comp_of_IOT61A | True | x16 | E8 |
| IOT63A/GCLKT_3/RPLL0_T_IN0 | I/O | 1 | DQ0 | GCLKT_3/RPLL0_T_IN0 | True_of_IOT63B | True | x16 | E10 |
| IOT63B/GCLKC_3 | I/O | 1 | DQ0 | GCLKC_3 | Comp_of_IOT63A | True | x16 | C10 |
| IOT66A | I/O | 1 | DQ0 | | True_of_IOT66B | True | x16 | D8 |
| IOT66B | I/O | 1 | DQ0 | | Comp_of_IOT66A | True | x16 | C8 |
| IOT68A | I/O | 1 | DQ0 | | True_of_IOT68B | True | x16 | C11 |
| IOT68B | I/O | 1 | DQ0 | | Comp_of_IOT68A | True | x16 | A11 |
| IOT70A | I/O | 1 | DQ0 | | True_of_IOT70B | True | x16 | F9 |
| IOT70B | I/O | 1 | DQ0 | | Comp_of_IOT70A | True | x16 | D9 |
| IOT7A | I/O | 7 | none | | True_of_IOT7B | True | x16 | K5 |
| IOT7B | I/O | 7 | none | | Comp_of_IOT7A | True | x16 | K6 |
| IOT83A | I/O | 1 | DQ1 | | True_of_IOT83B | True | x16 | B12 |
| IOT83B | I/O | 1 | DQ1 | | Comp_of_IOT83A | True | x16 | A12 |
| IOT85A | I/O | 1 | DQ1 | | True_of_IOT85B | True | x16 | C13 |
| IOT85B | I/O | 1 | DQ1 | | Comp_of_IOT85A | True | x16 | A13 |
| IOT87A | I/O | 1 | none | | True_of_IOT87B | True | x16 | F10 |
| IOT87B | I/O | 1 | none | | Comp_of_IOT87A | True | x16 | E11 |

| 注! | | | | | | | | |
|------------------------------|-------|------|------|-------------|----------------|------|------|----------------------|
| [1] LV版本封装。 | | | | | | | | |
| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | PG256 ^[1] |
| IOT89A/RPLL0_T_FB1 | I/O | 1 | none | RPLL0_T_FB1 | True_of_IOT89B | True | x16 | B14 |
| IOT89B | I/O | 1 | none | | Comp_of_IOT89A | True | x16 | A14 |
| IOT91A/RPLL0_T_IN1 | I/O | 1 | none | RPLL0_T_IN1 | True_of_IOT91B | True | x16 | D11 |
| IOT91B/RPLL0_C_FB0 | I/O | 1 | none | RPLL0_C_FB0 | Comp_of_IOT91A | True | x16 | D12 |
| IOT9A | I/O | 7 | none | | True_of_IOT9B | True | x16 | G6 |
| IOT9B | I/O | 7 | none | | Comp_of_IOT9A | True | x16 | G5 |
| M0_CKN | DIO | MIPI | | | | none | none | R1 |
| M0_CKP | DIO | MIPI | | | | none | none | R2 |
| M0_D0N | DIO | MIPI | | | | none | none | N1 |
| M0_D0P | DIO | MIPI | | | | none | none | N3 |
| M0_D1N | DIO | MIPI | | | | none | none | P1 |
| M0_D1P | DIO | MIPI | | | | none | none | P2 |
| M0_D2N | DIO | MIPI | | | | none | none | M3 |
| M0_D2P | DIO | MIPI | | | | none | none | M4 |
| M0_D3N | DIO | MIPI | | | | none | none | N4 |
| M0_D3P | DIO | MIPI | | | | none | none | M5 |
| M0_VDD_12 | Power | N/A | | | | | | J7 |
| M0_VDDA/M0_VDDD | Power | N/A | | | | | | K8 |
| M0_VDDX/VCC_REG/VCCIO10/VCCX | Power | N/A | | | | | | E5 |
| M0_VDDX/VCC_REG/VCCIO10/VCCX | Power | N/A | | | | | | H6 |
| M0_VDDX/VCC_REG/VCCIO10/VCCX | Power | N/A | | | | | | F8 |
| M0_VDDX/VCC_REG/VCCIO10/VCCX | Power | N/A | | | | | | L6 |
| M0_VDDX/VCC_REG/VCCIO10/VCCX | Power | N/A | | | | | | G10 |
| M0_VDDX/VCC_REG/VCCIO10/VCCX | Power | N/A | | | | | | F11 |

注！
[1] LV版本封装。

| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | PG256 ^[1] |
|------------------------------|-------|------|-----|------|--------|------|-----|----------------------|
| M0_VDDX/VCC_REG/VCCIO10/VCCX | Power | N/A | | | | | | J10 |
| M0_VDDX/VCC_REG/VCCIO10/VCCX | Power | N/A | | | | | | L9 |
| NC | N/A | N/A | | | | | | H8 |
| VCC/VCCC | Power | N/A | | | | | | G7 |
| VCC/VCCC | Power | N/A | | | | | | H10 |
| VCC/VCCC | Power | N/A | | | | | | J9 |
| VCC/VCCC | Power | N/A | | | | | | K10 |
| VCC/VCCC | Power | N/A | | | | | | G9 |
| VCCIO0 | Power | N/A | | | | | | B4 |
| VCCIO0 | Power | N/A | | | | | | D7 |
| VCCIO1 | Power | N/A | | | | | | D10 |
| VCCIO1 | Power | N/A | | | | | | B9 |
| VCCIO1 | Power | N/A | | | | | | B13 |
| VCCIO2 | Power | N/A | | | | | | G13 |
| VCCIO2 | Power | N/A | | | | | | D15 |
| VCCIO2 | Power | N/A | | | | | | J15 |
| VCCIO3 | Power | N/A | | | | | | K13 |
| VCCIO3 | Power | N/A | | | | | | N15 |
| VCCIO3 | Power | N/A | | | | | | R13 |
| VCCIO4 | Power | N/A | | | | | | R8 |
| VCCIO4 | Power | N/A | | | | | | N10 |
| VCCIO5 | Power | N/A | | | | | | R4 |
| VCCIO5 | Power | N/A | | | | | | N7 |
| VCCIO6 | Power | N/A | | | | | | N2 |
| VCCIO6 | Power | N/A | | | | | | J2 |
| VCCIO6 | Power | N/A | | | | | | K4 |
| VCCIO7 | Power | N/A | | | | | | G4 |
| VCCIO7 | Power | N/A | | | | | | D2 |
| VQPS | Power | N/A | | | | | | H12 |

| 注！ | | | | | | | | |
|-------------|--------|------|-----|------|--------|------|-----|----------------------|
| [1] LV版本封装。 | | | | | | | | |
| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | PG256 ^[1] |
| VSS | Ground | N/A | | | | | | A1 |
| VSS | Ground | N/A | | | | | | A16 |
| VSS | Ground | N/A | | | | | | B11 |
| VSS | Ground | N/A | | | | | | B7 |
| VSS | Ground | N/A | | | | | | D13 |
| VSS | Ground | N/A | | | | | | D4 |
| VSS | Ground | N/A | | | | | | E9 |
| VSS | Ground | N/A | | | | | | G15 |
| VSS | Ground | N/A | | | | | | G2 |
| VSS | Ground | N/A | | | | | | G8 |
| VSS | Ground | N/A | | | | | | H7 |
| VSS | Ground | N/A | | | | | | H9 |
| VSS | Ground | N/A | | | | | | J5 |
| VSS | Ground | N/A | | | | | | J8 |
| VSS | Ground | N/A | | | | | | K7 |
| VSS | Ground | N/A | | | | | | K9 |
| VSS | Ground | N/A | | | | | | L15 |
| VSS | Ground | N/A | | | | | | L2 |
| VSS | Ground | N/A | | | | | | M8 |
| VSS | Ground | N/A | | | | | | N13 |
| VSS | Ground | N/A | | | | | | P3 |
| VSS | Ground | N/A | | | | | | R10 |
| VSS | Ground | N/A | | | | | | R6 |
| VSS | Ground | N/A | | | | | | T1 |
| VSS | Ground | N/A | | | | | | T16 |

| 注！ [1]有封装管脚的短接IO，用户可忽略。 | | | | | | | | |
|-----------------------------|-----|------|------|-----------------------|----------------|------|------|--------|
| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | MG121N |
| BANK7 True LVDS Pair | | | | | | | | |
| IOT11A | I/O | 7 | none | | True_of_IOT11B | True | x16 | K11 |
| IOT11B | I/O | 7 | none | | Comp_of_IOT11A | True | none | L11 |
| IOT15A | I/O | 7 | none | | True_of_IOT15B | True | x16 | L10 |
| IOT15B | I/O | 7 | none | | Comp_of_IOT15A | True | none | K10 |
| IOT19A | I/O | 7 | none | | True_of_IOT19B | True | x16 | L7 |
| IOT19B | I/O | 7 | none | | Comp_of_IOT19A | True | none | L8 |
| IOT1A/GCLKT_15/LPLL0_T_IN0 | I/O | 7 | none | GCLKT_15/LPLL0_T_IN0 | True_of_IOT1B | True | x16 | J11 |
| IOT1B/GCLKC_15 | I/O | 7 | none | GCLKC_15 | Comp_of_IOT1A | True | none | J10 |
| IOT21A | I/O | 7 | none | | True_of_IOT21B | True | x16 | K7 |
| IOT21B | I/O | 7 | none | | Comp_of_IOT21A | True | none | J7 |
| IOT23A | I/O | 7 | none | | True_of_IOT23B | True | x16 | L6 |
| IOT23B | I/O | 7 | none | | Comp_of_IOT23A | True | none | K6 |
| IOT3A/GCLKT_16 | I/O | 7 | none | GCLKT_16 | True_of_IOT3B | True | x16 | H11 |
| IOT3B/GCLKC_16 | I/O | 7 | none | GCLKC_16 | Comp_of_IOT3A | True | none | H10 |
| IOT7A | I/O | 7 | none | | True_of_IOT7B | True | x16 | G11 |
| IOT7B | I/O | 7 | none | | Comp_of_IOT7A | True | none | G10 |
| BANK6 True LVDS Pair | | | | | | | | |
| IOL12A | I/O | 6 | DQ7 | | True_of_IOL12B | True | x16 | B11 |
| IOL12B | I/O | 6 | DQ7 | | Comp_of_IOL12A | True | none | B10 |
| IOL14A/LPLL1_T_IN0 | I/O | 6 | DQ7 | LPLL1_T_IN0 | True_of_IOL14B | True | x16 | A11 |
| IOL14B | I/O | 6 | DQ7 | | Comp_of_IOL14A | True | none | A10 |
| IOL3A/GCLKT_14A/LPLL0_T_IN2 | I/O | 6 | DQ7 | GCLKT_14A/LPLL0_T_IN2 | True_of_IOL3B | True | x16 | E11 |
| IOL3B/GCLKC_14/LPLL0_C_FB0 | I/O | 6 | DQ7 | GCLKC_14/LPLL0_C_FB0 | Comp_of_IOL3A | True | none | E10 |
| IOL5A/GCLKT_13/LPLL0_T_IN1 | I/O | 6 | DQ7 | GCLKT_13/LPLL0_T_IN1 | True_of_IOL5B | True | x16 | C11 |
| IOL5B/GCLKC_13/LPLL0_C_FB1 | I/O | 6 | DQ7 | GCLKC_13/LPLL0_C_FB1 | Comp_of_IOL5A | True | none | C10 |

| 注！ | | | | | | | | |
|--------------------------------------|-----|------|----------|-------------------------------|----------------|------|------|------------------------|
| [1]有封装管脚的短接IO，用户可忽略。 | | | | | | | | |
| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | MG121N |
| IOL9A | I/O | 6 | DQS7/DQ7 | | True_of_IOL9B | True | x16 | D11 |
| IOL9B | I/O | 6 | DQS7/DQ7 | | Comp_of_IOL9A | True | none | D10 |
| BANK5 True LVDS Pair | | | | | | | | |
| IOB10A/D03/SSPI_CN/SSI0 | I/O | 5 | none | D03/SSPI_CS_N/SSI0 | True_of_IOB10B | True | x16 | B1_B10A ^[1] |
| IOB10B/D04/SI | I/O | 5 | none | D04/SI | Comp_of_IOB10A | True | none | A3_B10B ^[1] |
| IOB12A/GCLKT_10B/D07/SSPI_WP/SSI2 | I/O | 5 | none | GCLKT_10B/D07/SSPI_WP/SSI2 | True_of_IOB12B | True | x16 | E2 |
| IOB12B/GCLKC_10B/RDWR_B/LP/LL1_C_IN1 | I/O | 5 | none | GCLKC_10B/RDWR_B/LP/LL1_C_IN1 | Comp_of_IOB12A | True | none | E1 |
| IOB14A/SSPI_CLK | I/O | 5 | none | SSPI_CLK | True_of_IOB14B | True | x16 | C1_B14A ^[1] |
| IOB14B/CLKHOLD_N/SSI3 | I/O | 5 | none | CLKHOLD_N/SSI3 | Comp_of_IOB14A | True | none | D1 |
| IOB24A | I/O | 5 | none | | True_of_IOB24B | True | x16 | A1 |
| IOB26A/GCLKT_12 | I/O | 5 | none | GCLKT_12 | True_of_IOB26B | True | x16 | F2 |
| IOB26B/GCLKC_12 | I/O | 5 | none | GCLKC_12 | Comp_of_IOB26A | True | none | F1 |
| IOB4A/D08/SDA | I/O | 5 | none | D08/SDA | True_of_IOB4B | True | x16 | B2 |
| IOB4B/D09/SCL/LPLL1_C_FB0 | I/O | 5 | none | D09/SCL/LPLL1_C_FB0 | Comp_of_IOB4A | True | none | C2 |
| IOB8A/D05/SO/SSI1 | I/O | 5 | none | D05/SO/SSI1 | True_of_IOB8B | True | x16 | A2_B8A ^[1] |
| BANK4 True LVDS Pair | | | | | | | | |
| IOB37A/READY | I/O | 4 | none | READY | True_of_IOB37B | True | x16 | E8 |
| IOB37B/MCS_N/CSO_B | I/O | 4 | none | MCS_N/CSO_B | Comp_of_IOB37A | True | none | E6 |
| IOB54A/GCLKT_11B/D01/MI2 | I/O | 4 | none | GCLKT_11B/D01/MI2 | True_of_IOB54B | True | x16 | D5 |
| IOB54B/GCLKC_11B/D02/BPLL_C_FB1/MI3 | I/O | 4 | none | GCLKC_11B/D02/BPLL_C_FB1/MI3 | Comp_of_IOB54A | True | none | E4 |
| IOB56A | I/O | 4 | none | | True_of_IOB56B | True | x16 | B3 |
| IOB56B | I/O | 4 | none | | Comp_of_IOB56A | True | none | C3 |
| IOB58A/D00/MISO/MI1/DIN | I/O | 4 | none | D00/MISO/MI1/DIN | True_of_IOB58B | True | x16 | E5 |
| IOB58B/MOSI/CSI_B/MI0 | I/O | 4 | none | MOSI/CSI_B/MI0 | Comp_of_IOB58A | True | none | D6 |

| 注! | | | | | | | | |
|-----------------------------|-----|------|------------|---------------------|----------------|------|------|--------|
| [1]有封装管脚的短接IO, 用户可忽略。 | | | | | | | | |
| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | MG121N |
| IOB60A | I/O | 4 | none | | True_of_IOB60B | True | x16 | E3 |
| IOB62A/CCLK | I/O | 4 | none | CCLK | True_of_IOB62B | True | x16 | E7 |
| BANK3 True LVDS Pair | | | | | | | | |
| IOB89A/GCLKT_7/BPLL_T_IN0 | I/O | 3 | DQ4 | GCLKT_7/BPLL_T_IN0 | True_of_IOB89B | True | x16 | G4 |
| IOB89B/GCLKC_7 | I/O | 3 | DQ4 | GCLKC_7 | Comp_of_IOB89A | True | none | H4 |
| IOB91A/GCLKT_6A | I/O | 3 | DQ4 | GCLKT_6A | True_of_IOB91B | True | x16 | H1 |
| IOB91B/GCLKC_6A | I/O | 3 | DQ4 | GCLKC_6A | Comp_of_IOB91A | True | none | H2 |
| BANK2 True LVDS Pair | | | | | | | | |
| IOR18A | I/O | 2 | DQ2/DQS_23 | | True_of_IOR18B | True | x16 | L2 |
| IOR18B | I/O | 2 | DQ2/DQS_23 | | Comp_of_IOR18A | True | none | L1 |
| IOR20A | I/O | 2 | DQ3 | | True_of_IOR20B | True | x16 | K1 |
| IOR20B | I/O | 2 | DQ3 | | Comp_of_IOR20A | True | none | K2 |
| IOR22A | I/O | 2 | DQ3 | | True_of_IOR22B | True | x16 | J4 |
| IOR22B | I/O | 2 | DQ3 | | Comp_of_IOR22A | True | none | K4 |
| IOR24A | I/O | 2 | DQ3 | | True_of_IOR24B | True | x16 | G2 |
| IOR24B | I/O | 2 | DQ3 | | Comp_of_IOR24A | True | none | G1 |
| IOR31A/GCLKT_4/RPLL1_T_IN0 | I/O | 2 | DQ3 | GCLKT_4/RPLL1_T_IN0 | True_of_IOR31B | True | x16 | L4 |
| IOR31B/GCLKC_4/RPLL1_C_FB1 | I/O | 2 | DQ3 | GCLKC_4/RPLL1_C_FB1 | Comp_of_IOR31A | True | none | L3 |
| IOR33A/GCLKT_5/RPLL1_T_IN1 | I/O | 2 | none | GCLKT_5/RPLL1_T_IN1 | True_of_IOR33B | True | x16 | J1 |
| IOR33B/GCLKC_5/RPLL1_C_FB0 | I/O | 2 | none | GCLKC_5/RPLL1_C_FB0 | Comp_of_IOR33A | True | none | J2 |
| BANK1 True LVDS Pair | | | | | | | | |
| IOT61A/GCLKT_2/TPLL_T_IN0 | I/O | 1 | DQS0/DQ0 | GCLKT_2/TPLL_T_IN0 | True_of_IOT61B | True | x16 | H5 |
| IOT61B/GCLKC_2 | I/O | 1 | DQS0/DQ0 | GCLKC_2 | Comp_of_IOT61A | True | none | J5 |
| IOT63A/GCLKT_3/RPLL0_T_IN0 | I/O | 1 | DQ0 | GCLKT_3/RPLL0_T_IN0 | True_of_IOT63B | True | x16 | L5 |
| IOT63B/GCLKC_3 | I/O | 1 | DQ0 | GCLKC_3 | Comp_of_IOT63A | True | none | K5 |
| IOT66A | I/O | 1 | DQ0 | | True_of_IOT66B | True | x16 | H8 |

注！
[1]有封装管脚的短接IO，用户可忽略。

| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | MG121N |
|-----------------------------|-----|------|------|--------------------|----------------|------|------|--------|
| IOT66B | I/O | 1 | DQ0 | | Comp_of_IOT66A | True | none | H7 |
| IOT68A | I/O | 1 | DQ0 | | True_of_IOT68B | True | x16 | G7 |
| IOT68B | I/O | 1 | DQ0 | | Comp_of_IOT68A | True | none | G8 |
| IOT72A | I/O | 1 | DQ0 | | True_of_IOT72B | True | x16 | F5 |
| IOT72B | I/O | 1 | DQ0 | | Comp_of_IOT72A | True | none | G5 |
| BANK0 True LVDS Pair | | | | | | | | |
| IOT31A | I/O | 0 | none | | True_of_IOT31B | True | x16 | L9 |
| IOT31B | I/O | 0 | none | | Comp_of_IOT31A | True | none | K9 |
| IOT56A/GCLKT_0/TPLL_T_IN1 | I/O | 0 | none | GCLKT_0/TPLL_T_IN1 | True_of_IOT56B | True | x16 | J8 |
| IOT56B/GCLKC_0/TPLL_C_FB1 | I/O | 0 | none | GCLKC_0/TPLL_C_FB1 | Comp_of_IOT56A | True | none | K8 |
| IOT58A/GCLKT_1/TPLL_T_IN2 | I/O | 0 | none | GCLKT_1/TPLL_T_IN2 | True_of_IOT58B | True | x16 | F7 |
| IOT58B/GCLKC_1/TPLL_C_FB0 | I/O | 0 | none | GCLKC_1/TPLL_C_FB0 | Comp_of_IOT58A | True | none | F6 |

| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | UG324S |
|-----------------------------|-----|------|------|----------------------|----------------|------|------|--------|
| BANK7 True LVDS Pair | | | | | | | | |
| IOT11A | I/O | 7 | none | | True_of_IOT11B | True | x16 | F2 |
| IOT11B | I/O | 7 | none | | Comp_of_IOT11A | True | none | F1 |
| IOT13A | I/O | 7 | none | | True_of_IOT13B | True | x16 | J7 |
| IOT13B | I/O | 7 | none | | Comp_of_IOT13A | True | none | J6 |
| IOT15A | I/O | 7 | none | | True_of_IOT15B | True | x16 | E3 |
| IOT15B | I/O | 7 | none | | Comp_of_IOT15A | True | none | E1 |
| IOT17A | I/O | 7 | none | | True_of_IOT17B | True | x16 | F4 |
| IOT17B | I/O | 7 | none | | Comp_of_IOT17A | True | none | F3 |
| IOT19A | I/O | 7 | none | | True_of_IOT19B | True | x16 | D2 |
| IOT19B | I/O | 7 | none | | Comp_of_IOT19A | True | none | D1 |
| IOT1A/GCLKT_15/LPLL0_T_IN0 | I/O | 7 | none | GCLKT_15/LPLL0_T_IN0 | True_of_IOT1B | True | x16 | H4 |
| IOT1B/GCLKC_15 | I/O | 7 | none | GCLKC_15 | Comp_of_IOT1A | True | none | H3 |
| IOT21A | I/O | 7 | none | | True_of_IOT21B | True | x16 | L7 |
| IOT21B | I/O | 7 | none | | Comp_of_IOT21A | True | none | K6 |
| IOT23A | I/O | 7 | none | | True_of_IOT23B | True | x16 | E4 |
| IOT23B | I/O | 7 | none | | Comp_of_IOT23A | True | none | D3 |
| IOT25A | I/O | 7 | none | | True_of_IOT25B | True | x16 | F6 |
| IOT25B | I/O | 7 | none | | Comp_of_IOT25A | True | none | F5 |
| IOT27A | I/O | 7 | none | | True_of_IOT27B | True | x16 | C2 |
| IOT27B | I/O | 7 | none | | Comp_of_IOT27A | True | none | C1 |
| IOT3A/GCLKT_16 | I/O | 7 | none | GCLKT_16 | True_of_IOT3B | True | x16 | L5 |
| IOT3B/GCLKC_16 | I/O | 7 | none | GCLKC_16 | Comp_of_IOT3A | True | none | K5 |
| IOT5A | I/O | 7 | none | | True_of_IOT5B | True | x16 | H6 |
| IOT5B | I/O | 7 | none | | Comp_of_IOT5A | True | none | H5 |
| IOT7A | I/O | 7 | none | | True_of_IOT7B | True | x16 | G3 |
| IOT7B | I/O | 7 | none | | Comp_of_IOT7A | True | none | G1 |
| IOT9A | I/O | 7 | none | | True_of_IOT9B | True | x16 | H7 |

| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | UG324S |
|-----------------------------|-----|------|------------|-----------------------|----------------|------|------|--------|
| IOT9B | I/O | 7 | none | | Comp_of_IOT9A | True | none | G6 |
| BANK6 True LVDS Pair | | | | | | | | |
| IOL12A | I/O | 6 | DQ7 | | True_of_IOL12B | True | x16 | K2 |
| IOL12B | I/O | 6 | DQ7 | | Comp_of_IOL12A | True | none | K1 |
| IOL14A/LPLL1_T_IN0 | I/O | 6 | DQ7 | LPLL1_T_IN0 | True_of_IOL14B | True | x16 | L2 |
| IOL14B | I/O | 6 | DQ7 | | Comp_of_IOL14A | True | none | L1 |
| IOL16A | I/O | 6 | DQ6/DQS_67 | | True_of_IOL16B | True | x16 | M3 |
| IOL16B | I/O | 6 | DQ6/DQS_67 | | Comp_of_IOL16A | True | none | M1 |
| IOL18A | I/O | 6 | DQ6 | | True_of_IOL18B | True | x16 | N2 |
| IOL18B | I/O | 6 | DQ6 | | Comp_of_IOL18A | True | none | N1 |
| IOL21A | I/O | 6 | DQS6/DQ6 | | True_of_IOL21B | True | x16 | P2 |
| IOL21B | I/O | 6 | DQS6/DQ6 | | Comp_of_IOL21A | True | none | P1 |
| IOL23A | I/O | 6 | DQ6 | | True_of_IOL23B | True | x16 | T2 |
| IOL23B | I/O | 6 | DQ6 | | Comp_of_IOL23A | True | none | T1 |
| IOL25A | I/O | 6 | DQ6 | | True_of_IOL25B | True | x16 | U2 |
| IOL25B | I/O | 6 | DQ6 | | Comp_of_IOL25A | True | none | U1 |
| IOL27A | I/O | 6 | DQ6 | | True_of_IOL27B | True | x16 | L6 |
| IOL27B | I/O | 6 | DQ6 | | Comp_of_IOL27A | True | none | M5 |
| IOL29A | I/O | 6 | none | | True_of_IOL29B | True | x16 | N4 |
| IOL29B | I/O | 6 | none | | Comp_of_IOL29A | True | none | N3 |
| IOL31A | I/O | 6 | none | | True_of_IOL31B | True | x16 | P4 |
| IOL31B | I/O | 6 | none | | Comp_of_IOL31A | True | none | P3 |
| IOL3A/GCLKT_14A/LPLL0_T_IN2 | I/O | 6 | DQ7 | GCLKT_14A/LPLL0_T_IN2 | True_of_IOL3B | True | x16 | H2 |
| IOL3B/GCLKC_14/LPLL0_C_FB0 | I/O | 6 | DQ7 | GCLKC_14/LPLL0_C_FB0 | Comp_of_IOL3A | True | none | H1 |
| IOL5A/GCLKT_13/LPLL0_T_IN1 | I/O | 6 | DQ7 | GCLKT_13/LPLL0_T_IN1 | True_of_IOL5B | True | x16 | K4 |
| IOL5B/GCLKC_13/LPLL0_C_FB1 | I/O | 6 | DQ7 | GCLKC_13/LPLL0_C_FB1 | Comp_of_IOL5A | True | none | K3 |
| IOL7A | I/O | 6 | DQ7 | | True_of_IOL7B | True | x16 | J3 |
| IOL7B | I/O | 6 | DQ7 | | Comp_of_IOL7A | True | none | J1 |

| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | UG324S |
|---|-----|------|----------|---------------------------------|----------------|------|------|--------|
| IOL9A | I/O | 6 | DQS7/DQ7 | | True_of_IOL9B | True | x16 | L4 |
| IOL9B | I/O | 6 | DQS7/DQ7 | | Comp_of_IOL9A | True | none | L3 |
| BANK5 True LVDS Pair | | | | | | | | |
| IOB10A/D03/SSPI_CN/SSI0 | I/O | 5 | none | D03/SSPI_CS_N/SSI0 | True_of_IOB10B | True | x16 | U5 |
| IOB10B/D04/SI | I/O | 5 | none | D04/SI | Comp_of_IOB10A | True | none | V5 |
| IOB12A/GCLKT_10B/D07/SSPI_WP PN/SSI2 | I/O | 5 | none | GCLKT_10B/D07/SSPI_WP N/SSI2 | True_of_IOB12B | True | x16 | R5 |
| IOB12B/GCLKC_10B/RDWR_B/LP LL1_C_IN1 | I/O | 5 | none | GCLKC_10B/RDWR_B/LP L1_C_IN1 | Comp_of_IOB12A | True | none | T5 |
| IOB14A/SSPI_CLK | I/O | 5 | none | SSPI_CLK | True_of_IOB14B | True | x16 | N6 |
| IOB14B/CLKHOLD_N/SSI3 | I/O | 5 | none | CLKHOLD_N/SSI3 | Comp_of_IOB14A | True | none | P7 |
| IOB16A | I/O | 5 | none | | True_of_IOB16B | True | x16 | T6 |
| IOB16B | I/O | 5 | none | | Comp_of_IOB16A | True | none | V6 |
| IOB18A | I/O | 5 | none | | True_of_IOB18B | True | x16 | N7 |
| IOB18B | I/O | 5 | none | | Comp_of_IOB18A | True | none | P8 |
| IOB20A | I/O | 5 | none | | True_of_IOB20B | True | x16 | U7 |
| IOB20B | I/O | 5 | none | | Comp_of_IOB20A | True | none | V7 |
| IOB22A | I/O | 5 | none | | True_of_IOB22B | True | x16 | U8 |
| IOB22B | I/O | 5 | none | | Comp_of_IOB22A | True | none | V8 |
| IOB24A | I/O | 5 | none | | True_of_IOB24B | True | x16 | M8 |
| IOB24B | I/O | 5 | none | | Comp_of_IOB24A | True | none | N8 |
| IOB26A/GCLKT_12 | I/O | 5 | none | GCLKT_12 | True_of_IOB26B | True | x16 | M10 |
| IOB26B/GCLKC_12 | I/O | 5 | none | GCLKC_12 | Comp_of_IOB26A | True | none | N9 |
| IOB2A | I/O | 5 | none | | True_of_IOB2B | True | x16 | T4 |
| IOB2B | I/O | 5 | none | | Comp_of_IOB2A | True | none | V4 |
| IOB4A/D08/SDA | I/O | 5 | none | D08/SDA | True_of_IOB4B | True | x16 | N5 |
| IOB4B/D09/SCL/LPLL1_C_FB0 | I/O | 5 | none | D09/SCL/LPLL1_C_FB0 | Comp_of_IOB4A | True | none | P6 |
| IOB6A | I/O | 5 | none | | True_of_IOB6B | True | x16 | R7 |

| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | UG324S |
|---------------------------------|-----|------|------|--------------------------|----------------|------|------|--------|
| IOB6B | I/O | 5 | none | | Comp_of_IOB6A | True | none | T7 |
| IOB8A/D05/SO/SSI1 | I/O | 5 | none | D05/SO/SSI1 | True_of_IOB8B | True | x16 | R3 |
| IOB8B/D06 | I/O | 5 | none | D06 | Comp_of_IOB8A | True | none | T3 |
| BANK4 True LVDS Pair | | | | | | | | |
| IOB29A/GCLKT_11A | I/O | 4 | none | GCLKT_11A | True_of_IOB29B | True | x16 | T9 |
| IOB29B/GCLKC_11A | I/O | 4 | none | GCLKC_11A | Comp_of_IOB29A | True | none | V9 |
| IOB31A/GCLKT_10A/D14 | I/O | 4 | none | GCLKT_10A/D14 | True_of_IOB31B | True | x16 | R8 |
| IOB31B/GCLKC_10A/D15/BPLL_C_FB0 | I/O | 4 | none | GCLKC_10A/D15/BPLL_C_FB0 | Comp_of_IOB31A | True | none | T8 |
| IOB33A/GCLKT_9/D13/BPLL_T_IN1 | I/O | 4 | none | GCLKT_9/D13/BPLL_T_IN1 | True_of_IOB33B | True | x16 | U10 |
| IOB33B/GCLKC_9/EMCCLK | I/O | 4 | none | GCLKC_9/EMCCLK | Comp_of_IOB33A | True | none | V10 |
| IOB35A/GCLKT_8 | I/O | 4 | none | GCLKT_8 | True_of_IOB35B | True | x16 | R10 |
| IOB35B/GCLKC_8 | I/O | 4 | none | GCLKC_8 | Comp_of_IOB35A | True | none | T10 |
| IOB37A/READY | I/O | 4 | none | READY | True_of_IOB37B | True | x16 | U3 |
| IOB37B/MCS_N/CSO_B | I/O | 4 | none | MCS_N/CSO_B | Comp_of_IOB37A | True | none | V3 |
| IOB39A | I/O | 4 | none | | True_of_IOB39B | True | x16 | U11 |
| IOB39B | I/O | 4 | none | | Comp_of_IOB39A | True | none | V11 |
| IOB41A | I/O | 4 | none | | True_of_IOB41B | True | x16 | N10 |
| IOB41B | I/O | 4 | none | | Comp_of_IOB41A | True | none | P11 |
| IOB43A | I/O | 4 | none | | True_of_IOB43B | True | x16 | T12 |
| IOB43B | I/O | 4 | none | | Comp_of_IOB43A | True | none | V12 |
| IOB45A | I/O | 4 | none | | True_of_IOB45B | True | x16 | R11 |
| IOB45B | I/O | 4 | none | | Comp_of_IOB45A | True | none | T11 |
| IOB48A | I/O | 4 | none | | True_of_IOB48B | True | x16 | M11 |
| IOB48B | I/O | 4 | none | | Comp_of_IOB48A | True | none | N11 |
| IOB50A/D11 | I/O | 4 | none | D11 | True_of_IOB50B | True | x16 | U13 |
| IOB50B/D12 | I/O | 4 | none | D12 | Comp_of_IOB50A | True | none | V13 |

| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | UG324S |
|-------------------------------------|-----|------|----------|------------------------------|----------------|------|------|--------|
| IOB52A/MODE1 | I/O | 4 | none | MODE1 | True_of_IOB52B | True | x16 | N12 |
| IOB52B/D10 | I/O | 4 | none | D10 | Comp_of_IOB52A | True | none | P12 |
| IOB54A/GCLKT_11B/D01/MI2 | I/O | 4 | none | GCLKT_11B/D01/MI2 | True_of_IOB54B | True | x16 | T14 |
| IOB54B/GCLKC_11B/D02/BPLL_C_FB1/MI3 | I/O | 4 | none | GCLKC_11B/D02/BPLL_C_FB1/MI3 | Comp_of_IOB54A | True | none | V14 |
| IOB56A | I/O | 4 | none | | True_of_IOB56B | True | x16 | U15 |
| IOB56B | I/O | 4 | none | | Comp_of_IOB56A | True | none | V15 |
| IOB58A/D00/MISO/MI1/DIN | I/O | 4 | none | D00/MISO/MI1/DIN | True_of_IOB58B | True | x16 | R13 |
| IOB58B/MOSI/CSI_B/MI0 | I/O | 4 | none | MOSI/CSI_B/MI0 | Comp_of_IOB58A | True | none | T13 |
| IOB60A | I/O | 4 | none | | True_of_IOB60B | True | x16 | U16 |
| IOB60B | I/O | 4 | none | | Comp_of_IOB60A | True | none | V16 |
| IOB62A/CCLK | I/O | 4 | none | CCLK | True_of_IOB62B | True | x16 | R15 |
| IOB62B/MODE0 | I/O | 4 | none | MODE0 | Comp_of_IOB62A | True | none | T15 |
| BANK3 True LVDS Pair | | | | | | | | |
| IOB65A | I/O | 3 | none | | True_of_IOB65B | True | x16 | P15 |
| IOB65B/DOOUT | I/O | 3 | none | DOOUT | Comp_of_IOB65A | True | none | P16 |
| IOB67A | I/O | 3 | none | | True_of_IOB67B | True | x16 | L14 |
| IOB67B | I/O | 3 | none | | Comp_of_IOB67A | True | none | M13 |
| IOB69A | I/O | 3 | DQ5 | | True_of_IOB69B | True | x16 | M14 |
| IOB69B | I/O | 3 | DQ5 | | Comp_of_IOB69A | True | none | N14 |
| IOB71A | I/O | 3 | DQ5 | | True_of_IOB71B | True | x16 | U17 |
| IOB71B | I/O | 3 | DQ5 | | Comp_of_IOB71A | True | none | U18 |
| IOB73A | I/O | 3 | DQ5 | | True_of_IOB73B | True | x16 | T17 |
| IOB73B | I/O | 3 | DQ5 | | Comp_of_IOB73A | True | none | T18 |
| IOB75A/GCLKT_6B | I/O | 3 | DQS5/DQ5 | GCLKT_6B | True_of_IOB75B | True | x16 | N15 |
| IOB75B/GCLKC_6B | I/O | 3 | DQS5/DQ5 | GCLKC_6B | Comp_of_IOB75A | True | none | N16 |
| IOB77A | I/O | 3 | DQ5 | | True_of_IOB77B | True | x16 | P17 |
| IOB77B | I/O | 3 | DQ5 | | Comp_of_IOB77A | True | none | P18 |

| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | UG324S |
|-----------------------------|-----|------|------------|--------------------|----------------|------|------|--------|
| IOB79A | I/O | 3 | DQ5/DQS_45 | | True_of_IOB79B | True | x16 | N17 |
| IOB79B | I/O | 3 | DQ5/DQS_45 | | Comp_of_IOB79A | True | none | N18 |
| IOB81A | I/O | 3 | DQ4 | | True_of_IOB81B | True | x16 | M16 |
| IOB81B | I/O | 3 | DQ4 | | Comp_of_IOB81A | True | none | M18 |
| IOB83A | I/O | 3 | DQ4 | | True_of_IOB83B | True | x16 | L17 |
| IOB83B | I/O | 3 | DQ4 | | Comp_of_IOB83A | True | none | L18 |
| IOB85A | I/O | 3 | DQS4/DQ4 | | True_of_IOB85B | True | x16 | K17 |
| IOB85B | I/O | 3 | DQS4/DQ4 | | Comp_of_IOB85A | True | none | K18 |
| IOB87A | I/O | 3 | DQ4 | | True_of_IOB87B | True | x16 | J16 |
| IOB87B | I/O | 3 | DQ4 | | Comp_of_IOB87A | True | none | J18 |
| IOB89A/GCLKT_7/BPLL_T_IN0 | I/O | 3 | DQ4 | GCLKT_7/BPLL_T_IN0 | True_of_IOB89B | True | x16 | H17 |
| IOB89B/GCLKC_7 | I/O | 3 | DQ4 | GCLKC_7 | Comp_of_IOB89A | True | none | H18 |
| IOB91A/GCLKT_6A | I/O | 3 | DQ4 | GCLKT_6A | True_of_IOB91B | True | x16 | L15 |
| IOB91B/GCLKC_6A | I/O | 3 | DQ4 | GCLKC_6A | Comp_of_IOB91A | True | none | L16 |
| BANK2 True LVDS Pair | | | | | | | | |
| IOR12A | I/O | 2 | DQS2/DQ2 | | True_of_IOR12B | True | x16 | D17 |
| IOR12B | I/O | 2 | DQS2/DQ2 | | Comp_of_IOR12A | True | none | D18 |
| IOR14A | I/O | 2 | DQ2 | | True_of_IOR14B | True | x16 | F15 |
| IOR14B | I/O | 2 | DQ2 | | Comp_of_IOR14A | True | none | F16 |
| IOR16A | I/O | 2 | DQ2 | | True_of_IOR16B | True | x16 | E16 |
| IOR16B | I/O | 2 | DQ2 | | Comp_of_IOR16A | True | none | E18 |
| IOR18A | I/O | 2 | DQ2/DQS_23 | | True_of_IOR18B | True | x16 | H13 |
| IOR18B | I/O | 2 | DQ2/DQS_23 | | Comp_of_IOR18A | True | none | H14 |
| IOR20A | I/O | 2 | DQ3 | | True_of_IOR20B | True | x16 | F17 |
| IOR20B | I/O | 2 | DQ3 | | Comp_of_IOR20A | True | none | F18 |
| IOR22A | I/O | 2 | DQ3 | | True_of_IOR22B | True | x16 | G16 |
| IOR22B | I/O | 2 | DQ3 | | Comp_of_IOR22A | True | none | G18 |

| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | UG324S |
|-----------------------------|-----|------|----------|---------------------|----------------|------|------|--------|
| IOR24A | I/O | 2 | DQ3 | | True_of_IOR24B | True | x16 | H15 |
| IOR24B | I/O | 2 | DQ3 | | Comp_of_IOR24A | True | none | H16 |
| IOR26A | I/O | 2 | DQS3/DQ3 | | True_of_IOR26B | True | x16 | J13 |
| IOR26B | I/O | 2 | DQS3/DQ3 | | Comp_of_IOR26A | True | none | K14 |
| IOR29A | I/O | 2 | DQ3 | | True_of_IOR29B | True | x16 | K12 |
| IOR29B | I/O | 2 | DQ3 | | Comp_of_IOR29A | True | none | K13 |
| IOR31A/GCLKT_4/RPLL1_T_IN0 | I/O | 2 | DQ3 | GCLKT_4/RPLL1_T_IN0 | True_of_IOR31B | True | x16 | L12 |
| IOR31B/GCLKC_4/RPLL1_C_FB1 | I/O | 2 | DQ3 | GCLKC_4/RPLL1_C_FB1 | Comp_of_IOR31A | True | none | L13 |
| IOR33A/GCLKT_5/RPLL1_T_IN1 | I/O | 2 | none | GCLKT_5/RPLL1_T_IN1 | True_of_IOR33B | True | x16 | K15 |
| IOR33B/GCLKC_5/RPLL1_C_FB0 | I/O | 2 | none | GCLKC_5/RPLL1_C_FB0 | Comp_of_IOR33A | True | none | K16 |
| IOR5A | I/O | 2 | none | | True_of_IOR5B | True | x16 | H12 |
| IOR5B | I/O | 2 | none | | Comp_of_IOR5A | True | none | G13 |
| IOR7A | I/O | 2 | DQ2 | | True_of_IOR7B | True | x16 | F14 |
| IOR7B | I/O | 2 | DQ2 | | Comp_of_IOR7A | True | none | G14 |
| IOR9A | I/O | 2 | DQ2 | | True_of_IOR9B | True | x16 | C17 |
| IOR9B | I/O | 2 | DQ2 | | Comp_of_IOR9A | True | none | C18 |
| BANK1 True LVDS Pair | | | | | | | | |
| IOT61A/GCLKT_2/TPLL_T_IN0 | I/O | 1 | DQS0/DQ0 | GCLKT_2/TPLL_T_IN0 | True_of_IOT61B | True | x16 | D11 |
| IOT61B/GCLKC_2 | I/O | 1 | DQS0/DQ0 | GCLKC_2 | Comp_of_IOT61A | True | none | C11 |
| IOT63A/GCLKT_3/RPLL0_T_IN0 | I/O | 1 | DQ0 | GCLKT_3/RPLL0_T_IN0 | True_of_IOT63B | True | x16 | C10 |
| IOT63B/GCLKC_3 | I/O | 1 | DQ0 | GCLKC_3 | Comp_of_IOT63A | True | none | A10 |
| IOT66A | I/O | 1 | DQ0 | | True_of_IOT66B | True | x16 | G9 |
| IOT66B | I/O | 1 | DQ0 | | Comp_of_IOT66A | True | none | F9 |
| IOT68A | I/O | 1 | DQ0 | | True_of_IOT68B | True | x16 | B11 |
| IOT68B | I/O | 1 | DQ0 | | Comp_of_IOT68A | True | none | A11 |
| IOT70A | I/O | 1 | DQ0 | | True_of_IOT70B | True | x16 | G11 |
| IOT70B | I/O | 1 | DQ0 | | Comp_of_IOT70A | True | none | F10 |

| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | UG324S |
|-----------------------------|-----|------|------------|-------------|----------------|------|------|--------|
| IOT72A | I/O | 1 | DQ0 | | True_of_IOT72B | True | x16 | B12 |
| IOT72B | I/O | 1 | DQ0 | | Comp_of_IOT72A | True | none | A12 |
| IOT74A | I/O | 1 | DQ1/DQS_01 | | True_of_IOT74B | True | x16 | F11 |
| IOT74B | I/O | 1 | DQ1/DQS_01 | | Comp_of_IOT74A | True | none | E11 |
| IOT76A | I/O | 1 | DQ1 | | True_of_IOT76B | True | x16 | D12 |
| IOT76B | I/O | 1 | DQ1 | | Comp_of_IOT76A | True | none | C12 |
| IOT78A | I/O | 1 | DQ1 | | True_of_IOT78B | True | x16 | C13 |
| IOT78B | I/O | 1 | DQ1 | | Comp_of_IOT78A | True | none | A13 |
| IOT80A | I/O | 1 | DQS1/DQ1 | | True_of_IOT80B | True | x16 | F12 |
| IOT80B | I/O | 1 | DQS1/DQ1 | | Comp_of_IOT80A | True | none | E12 |
| IOT83A | I/O | 1 | DQ1 | | True_of_IOT83B | True | x16 | B14 |
| IOT83B | I/O | 1 | DQ1 | | Comp_of_IOT83A | True | none | A14 |
| IOT85A | I/O | 1 | DQ1 | | True_of_IOT85B | True | x16 | F13 |
| IOT85B | I/O | 1 | DQ1 | | Comp_of_IOT85A | True | none | E13 |
| IOT87A | I/O | 1 | none | | True_of_IOT87B | True | x16 | C15 |
| IOT87B | I/O | 1 | none | | Comp_of_IOT87A | True | none | A15 |
| IOT89A/RPLL0_T_FB1 | I/O | 1 | none | RPLL0_T_FB1 | True_of_IOT89B | True | x16 | D14 |
| IOT89B | I/O | 1 | none | | Comp_of_IOT89A | True | none | C14 |
| IOT91A/RPLL0_T_IN1 | I/O | 1 | none | RPLL0_T_IN1 | True_of_IOT91B | True | x16 | B16 |
| IOT91B/RPLL0_C_FB0 | I/O | 1 | none | RPLL0_C_FB0 | Comp_of_IOT91A | True | none | A16 |
| BANK0 True LVDS Pair | | | | | | | | |
| IOT29A/PUDC_B | I/O | 0 | none | PUDC_B | True_of_IOT29B | True | x16 | D4 |
| IOT29B | I/O | 0 | none | | Comp_of_IOT29A | True | none | C4 |
| IOT31A | I/O | 0 | none | | True_of_IOT31B | True | x16 | B2 |
| IOT31B | I/O | 0 | none | | Comp_of_IOT31A | True | none | A2 |
| IOT33A | I/O | 0 | none | | True_of_IOT33B | True | x16 | D6 |
| IOT33B | I/O | 0 | none | | Comp_of_IOT33A | True | none | C6 |

| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | UG324S |
|---------------------------|-----|------|------|--------------------|----------------|------|------|--------|
| IOT35A | I/O | 0 | none | | True_of_IOT35B | True | x16 | B3 |
| IOT35B | I/O | 0 | none | | Comp_of_IOT35A | True | none | A3 |
| IOT37A | I/O | 0 | none | | True_of_IOT37B | True | x16 | B4 |
| IOT37B | I/O | 0 | none | | Comp_of_IOT37A | True | none | A4 |
| IOT39A | I/O | 0 | none | | True_of_IOT39B | True | x16 | C5 |
| IOT39B | I/O | 0 | none | | Comp_of_IOT39A | True | none | A5 |
| IOT41A | I/O | 0 | none | | True_of_IOT41B | True | x16 | F7 |
| IOT41B | I/O | 0 | none | | Comp_of_IOT41A | True | none | E6 |
| IOT43A | I/O | 0 | none | | True_of_IOT43B | True | x16 | B6 |
| IOT43B | I/O | 0 | none | | Comp_of_IOT43A | True | none | A6 |
| IOT45A | I/O | 0 | none | | True_of_IOT45B | True | x16 | E7 |
| IOT45B | I/O | 0 | none | | Comp_of_IOT45A | True | none | E8 |
| IOT48A | I/O | 0 | none | | True_of_IOT48B | True | x16 | C7 |
| IOT48B | I/O | 0 | none | | Comp_of_IOT48A | True | none | A7 |
| IOT50A | I/O | 0 | none | | True_of_IOT50B | True | x16 | D8 |
| IOT50B | I/O | 0 | none | | Comp_of_IOT50A | True | none | C8 |
| IOT52A | I/O | 0 | none | | True_of_IOT52B | True | x16 | G8 |
| IOT52B | I/O | 0 | none | | Comp_of_IOT52A | True | none | F8 |
| IOT54A | I/O | 0 | none | | True_of_IOT54B | True | x16 | B8 |
| IOT54B | I/O | 0 | none | | Comp_of_IOT54A | True | none | A8 |
| IOT56A/GCLKT_0/TPLL_T_IN1 | I/O | 0 | none | GCLKT_0/TPLL_T_IN1 | True_of_IOT56B | True | x16 | D9 |
| IOT56B/GCLKC_0/TPLL_C_FB1 | I/O | 0 | none | GCLKC_0/TPLL_C_FB1 | Comp_of_IOT56A | True | none | C9 |
| IOT58A/GCLKT_1/TPLL_T_IN2 | I/O | 0 | none | GCLKT_1/TPLL_T_IN2 | True_of_IOT58B | True | x16 | B9 |
| IOT58B/GCLKC_1/TPLL_C_FB0 | I/O | 0 | none | GCLKC_1/TPLL_C_FB0 | Comp_of_IOT58A | True | none | A9 |

| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | UG324 |
|-----------------------------|-----|------|------|----------------------|----------------|------|------|-------|
| BANK7 True LVDS Pair | | | | | | | | |
| IOT11A | I/O | 7 | none | | True_of_IOT11B | True | x16 | F2 |
| IOT11B | I/O | 7 | none | | Comp_of_IOT11A | True | none | F1 |
| IOT13A | I/O | 7 | none | | True_of_IOT13B | True | x16 | J7 |
| IOT13B | I/O | 7 | none | | Comp_of_IOT13A | True | none | J6 |
| IOT15A | I/O | 7 | none | | True_of_IOT15B | True | x16 | E3 |
| IOT15B | I/O | 7 | none | | Comp_of_IOT15A | True | none | E1 |
| IOT17A | I/O | 7 | none | | True_of_IOT17B | True | x16 | F4 |
| IOT17B | I/O | 7 | none | | Comp_of_IOT17A | True | none | F3 |
| IOT19A | I/O | 7 | none | | True_of_IOT19B | True | x16 | D2 |
| IOT19B | I/O | 7 | none | | Comp_of_IOT19A | True | none | D1 |
| IOT1A/GCLKT_15/LPLL0_T_IN0 | I/O | 7 | none | GCLKT_15/LPLL0_T_IN0 | True_of_IOT1B | True | x16 | H4 |
| IOT1B/GCLKC_15 | I/O | 7 | none | GCLKC_15 | Comp_of_IOT1A | True | none | H3 |
| IOT21A | I/O | 7 | none | | True_of_IOT21B | True | x16 | L7 |
| IOT21B | I/O | 7 | none | | Comp_of_IOT21A | True | none | K6 |
| IOT23A | I/O | 7 | none | | True_of_IOT23B | True | x16 | E4 |
| IOT23B | I/O | 7 | none | | Comp_of_IOT23A | True | none | D3 |
| IOT25A | I/O | 7 | none | | True_of_IOT25B | True | x16 | F6 |
| IOT25B | I/O | 7 | none | | Comp_of_IOT25A | True | none | F5 |
| IOT27A | I/O | 7 | none | | True_of_IOT27B | True | x16 | C2 |
| IOT27B | I/O | 7 | none | | Comp_of_IOT27A | True | none | C1 |
| IOT3A/GCLKT_16 | I/O | 7 | none | GCLKT_16 | True_of_IOT3B | True | x16 | L5 |
| IOT3B/GCLKC_16 | I/O | 7 | none | GCLKC_16 | Comp_of_IOT3A | True | none | K5 |
| IOT5B | I/O | 7 | none | | Comp_of_IOT5A | True | none | H5 |
| IOT7A | I/O | 7 | none | | True_of_IOT7B | True | x16 | G3 |
| IOT7B | I/O | 7 | none | | Comp_of_IOT7A | True | none | G1 |
| IOT9A | I/O | 7 | none | | True_of_IOT9B | True | x16 | H7 |
| IOT9B | I/O | 7 | none | | Comp_of_IOT9A | True | none | G6 |

| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | UG324 |
|-------------------------------------|-----|------|------------|------------------------------|----------------|------|------|-------|
| BANK6 True LVDS Pair | | | | | | | | |
| IOL12A | I/O | 6 | DQ7 | | True_of_IOL12B | True | x16 | K2 |
| IOL12B | I/O | 6 | DQ7 | | Comp_of_IOL12A | True | none | K1 |
| IOL14A/LPLL1_T_IN0 | I/O | 6 | DQ7 | LPLL1_T_IN0 | True_of_IOL14B | True | x16 | L2 |
| IOL14B | I/O | 6 | DQ7 | | Comp_of_IOL14A | True | none | L1 |
| IOL16A | I/O | 6 | DQ6/DQS_67 | | True_of_IOL16B | True | x16 | M3 |
| IOL16B | I/O | 6 | DQ6/DQS_67 | | Comp_of_IOL16A | True | none | M1 |
| IOL18A | I/O | 6 | DQ6 | | True_of_IOL18B | True | x16 | N2 |
| IOL18B | I/O | 6 | DQ6 | | Comp_of_IOL18A | True | none | N1 |
| IOL21A | I/O | 6 | DQS6/DQ6 | | True_of_IOL21B | True | x16 | P2 |
| IOL21B | I/O | 6 | DQS6/DQ6 | | Comp_of_IOL21A | True | none | P1 |
| IOL3A/GCLKT_14A/LPLL0_T_IN2 | I/O | 6 | DQ7 | GCLKT_14A/LPLL0_T_IN2 | True_of_IOL3B | True | x16 | H2 |
| IOL3B/GCLKC_14/LPLL0_C_FB0 | I/O | 6 | DQ7 | GCLKC_14/LPLL0_C_FB0 | Comp_of_IOL3A | True | none | H1 |
| IOL5A/GCLKT_13/LPLL0_T_IN1 | I/O | 6 | DQ7 | GCLKT_13/LPLL0_T_IN1 | True_of_IOL5B | True | x16 | K4 |
| IOL5B/GCLKC_13/LPLL0_C_FB1 | I/O | 6 | DQ7 | GCLKC_13/LPLL0_C_FB1 | Comp_of_IOL5A | True | none | K3 |
| IOL7B | I/O | 6 | DQ7 | | Comp_of_IOL7A | True | none | J1 |
| IOL9A | I/O | 6 | DQS7/DQ7 | | True_of_IOL9B | True | x16 | L4 |
| IOL9B | I/O | 6 | DQS7/DQ7 | | Comp_of_IOL9A | True | none | L3 |
| BANK5 True LVDS Pair | | | | | | | | |
| IOB10A/D03/SSPI_CN/SSI0 | I/O | 5 | none | D03/SSPI_CS_N/SSI0 | True_of_IOB10B | True | x16 | U5 |
| IOB10B/D04/SI | I/O | 5 | none | D04/SI | Comp_of_IOB10A | True | none | V5 |
| IOB12A/GCLKT_10B/D07/SSPI_WP/SSI2 | I/O | 5 | none | GCLKT_10B/D07/SSPI_WP/SSI2 | True_of_IOB12B | True | x16 | R5 |
| IOB12B/GCLKC_10B/RDWR_B/LPLL1_C_IN1 | I/O | 5 | none | GCLKC_10B/RDWR_B/LPLL1_C_IN1 | Comp_of_IOB12A | True | none | T5 |
| IOB14A/SSPI_CLK | I/O | 5 | none | SSPI_CLK | True_of_IOB14B | True | x16 | N6 |
| IOB14B/CLKHOLD_N/SSI3 | I/O | 5 | none | CLKHOLD_N/SSI3 | Comp_of_IOB14A | True | none | P7 |
| IOB16A | I/O | 5 | none | | True_of_IOB16B | True | x16 | T6 |

| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | UG324 |
|---------------------------------|-----|------|------|--------------------------|----------------|------|------|-------|
| IOB16B | I/O | 5 | none | | Comp_of_IOB16A | True | none | V6 |
| IOB18B | I/O | 5 | none | | Comp_of_IOB18A | True | none | P8 |
| IOB20A | I/O | 5 | none | | True_of_IOB20B | True | x16 | U7 |
| IOB20B | I/O | 5 | none | | Comp_of_IOB20A | True | none | V7 |
| IOB22A | I/O | 5 | none | | True_of_IOB22B | True | x16 | U8 |
| IOB22B | I/O | 5 | none | | Comp_of_IOB22A | True | none | V8 |
| IOB24A | I/O | 5 | none | | True_of_IOB24B | True | x16 | M8 |
| IOB24B | I/O | 5 | none | | Comp_of_IOB24A | True | none | N8 |
| IOB26A/GCLKT_12 | I/O | 5 | none | GCLKT_12 | True_of_IOB26B | True | x16 | M10 |
| IOB26B/GCLKC_12 | I/O | 5 | none | GCLKC_12 | Comp_of_IOB26A | True | none | N9 |
| IOB2A | I/O | 5 | none | | True_of_IOB2B | True | x16 | T4 |
| IOB4A/D08/SDA | I/O | 5 | none | D08/SDA | True_of_IOB4B | True | x16 | N5 |
| IOB4B/D09/SCL/LPLL1_C_FB0 | I/O | 5 | none | D09/SCL/LPLL1_C_FB0 | Comp_of_IOB4A | True | none | P6 |
| IOB6A | I/O | 5 | none | | True_of_IOB6B | True | x16 | R7 |
| IOB6B | I/O | 5 | none | | Comp_of_IOB6A | True | none | T7 |
| IOB8A/D05/SO/SSI1 | I/O | 5 | none | D05/SO/SSI1 | True_of_IOB8B | True | x16 | R3 |
| IOB8B/D06 | I/O | 5 | none | D06 | Comp_of_IOB8A | True | none | T3 |
| BANK4 True LVDS Pair | | | | | | | | |
| IOB29A/GCLKT_11A | I/O | 4 | none | GCLKT_11A | True_of_IOB29B | True | x16 | T9 |
| IOB29B/GCLKC_11A | I/O | 4 | none | GCLKC_11A | Comp_of_IOB29A | True | none | V9 |
| IOB31A/GCLKT_10A/D14 | I/O | 4 | none | GCLKT_10A/D14 | True_of_IOB31B | True | x16 | R8 |
| IOB31B/GCLKC_10A/D15/BPLL_C_FB0 | I/O | 4 | none | GCLKC_10A/D15/BPLL_C_FB0 | Comp_of_IOB31A | True | none | T8 |
| IOB33A/GCLKT_9/D13/BPLL_T_IN1 | I/O | 4 | none | GCLKT_9/D13/BPLL_T_IN1 | True_of_IOB33B | True | x16 | U10 |
| IOB33B/GCLKC_9/EMCCLK | I/O | 4 | none | GCLKC_9/EMCCLK | Comp_of_IOB33A | True | none | V10 |
| IOB35A/GCLKT_8 | I/O | 4 | none | GCLKT_8 | True_of_IOB35B | True | x16 | R10 |
| IOB35B/GCLKC_8 | I/O | 4 | none | GCLKC_8 | Comp_of_IOB35A | True | none | T10 |

| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | UG324 |
|-------------------------------------|-----|------|------|------------------------------|----------------|------|------|-------|
| IOB37A/READY | I/O | 4 | none | READY | True_of_IOB37B | True | x16 | U3 |
| IOB37B/MCS_N/CSO_B | I/O | 4 | none | MCS_N/CSO_B | Comp_of_IOB37A | True | none | V3 |
| IOB39A | I/O | 4 | none | | True_of_IOB39B | True | x16 | U11 |
| IOB39B | I/O | 4 | none | | Comp_of_IOB39A | True | none | V11 |
| IOB41A | I/O | 4 | none | | True_of_IOB41B | True | x16 | N10 |
| IOB41B | I/O | 4 | none | | Comp_of_IOB41A | True | none | P11 |
| IOB43A | I/O | 4 | none | | True_of_IOB43B | True | x16 | T12 |
| IOB43B | I/O | 4 | none | | Comp_of_IOB43A | True | none | V12 |
| IOB45A | I/O | 4 | none | | True_of_IOB45B | True | x16 | R11 |
| IOB45B | I/O | 4 | none | | Comp_of_IOB45A | True | none | T11 |
| IOB48A | I/O | 4 | none | | True_of_IOB48B | True | x16 | M11 |
| IOB48B | I/O | 4 | none | | Comp_of_IOB48A | True | none | N11 |
| IOB50A/D11 | I/O | 4 | none | D11 | True_of_IOB50B | True | x16 | U13 |
| IOB50B/D12 | I/O | 4 | none | D12 | Comp_of_IOB50A | True | none | V13 |
| IOB52A/MODE1 | I/O | 4 | none | MODE1 | True_of_IOB52B | True | x16 | N12 |
| IOB52B/D10 | I/O | 4 | none | D10 | Comp_of_IOB52A | True | none | P12 |
| IOB54A/GCLKT_11B/D01/MI2 | I/O | 4 | none | GCLKT_11B/D01/MI2 | True_of_IOB54B | True | x16 | T14 |
| IOB54B/GCLKC_11B/D02/BPLL_C_FB1/MI3 | I/O | 4 | none | GCLKC_11B/D02/BPLL_C_FB1/MI3 | Comp_of_IOB54A | True | none | V14 |
| IOB56A | I/O | 4 | none | | True_of_IOB56B | True | x16 | U15 |
| IOB56B | I/O | 4 | none | | Comp_of_IOB56A | True | none | V15 |
| IOB58A/D00/MISO/MI1/DIN | I/O | 4 | none | D00/MISO/MI1/DIN | True_of_IOB58B | True | x16 | R13 |
| IOB58B/MOSI/CSI_B/MI0 | I/O | 4 | none | MOSI/CSI_B/MI0 | Comp_of_IOB58A | True | none | T13 |
| IOB60A | I/O | 4 | none | | True_of_IOB60B | True | x16 | U16 |
| IOB60B | I/O | 4 | none | | Comp_of_IOB60A | True | none | V16 |
| IOB62A/CCLK | I/O | 4 | none | CCLK | True_of_IOB62B | True | x16 | R15 |
| IOB62B/MODE0 | I/O | 4 | none | MODE0 | Comp_of_IOB62A | True | none | T15 |

| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | UG324 |
|-----------------------------|-----|------|------------|--------------------|----------------|------|------|-------|
| BANK3 True LVDS Pair | | | | | | | | |
| IOB65A | I/O | 3 | none | | True_of_IOB65B | True | x16 | P15 |
| IOB65B/DOUT | I/O | 3 | none | DOUT | Comp_of_IOB65A | True | none | P16 |
| IOB67A | I/O | 3 | none | | True_of_IOB67B | True | x16 | L14 |
| IOB67B | I/O | 3 | none | | Comp_of_IOB67A | True | none | M13 |
| IOB69A | I/O | 3 | DQ5 | | True_of_IOB69B | True | x16 | M14 |
| IOB69B | I/O | 3 | DQ5 | | Comp_of_IOB69A | True | none | N14 |
| IOB71A | I/O | 3 | DQ5 | | True_of_IOB71B | True | x16 | U17 |
| IOB71B | I/O | 3 | DQ5 | | Comp_of_IOB71A | True | none | U18 |
| IOB73A | I/O | 3 | DQ5 | | True_of_IOB73B | True | x16 | T17 |
| IOB73B | I/O | 3 | DQ5 | | Comp_of_IOB73A | True | none | T18 |
| IOB75A/GCLKT_6B | I/O | 3 | DQS5/DQ5 | GCLKT_6B | True_of_IOB75B | True | x16 | N15 |
| IOB75B/GCLKC_6B | I/O | 3 | DQS5/DQ5 | GCLKC_6B | Comp_of_IOB75A | True | none | N16 |
| IOB77A | I/O | 3 | DQ5 | | True_of_IOB77B | True | x16 | P17 |
| IOB77B | I/O | 3 | DQ5 | | Comp_of_IOB77A | True | none | P18 |
| IOB79A | I/O | 3 | DQ5/DQS_45 | | True_of_IOB79B | True | x16 | N17 |
| IOB79B | I/O | 3 | DQ5/DQS_45 | | Comp_of_IOB79A | True | none | N18 |
| IOB81A | I/O | 3 | DQ4 | | True_of_IOB81B | True | x16 | M16 |
| IOB81B | I/O | 3 | DQ4 | | Comp_of_IOB81A | True | none | M18 |
| IOB83A | I/O | 3 | DQ4 | | True_of_IOB83B | True | x16 | L17 |
| IOB83B | I/O | 3 | DQ4 | | Comp_of_IOB83A | True | none | L18 |
| IOB85A | I/O | 3 | DQS4/DQ4 | | True_of_IOB85B | True | x16 | K17 |
| IOB85B | I/O | 3 | DQS4/DQ4 | | Comp_of_IOB85A | True | none | K18 |
| IOB87A | I/O | 3 | DQ4 | | True_of_IOB87B | True | x16 | J16 |
| IOB89A/GCLKT_7/BPLL_T_IN0 | I/O | 3 | DQ4 | GCLKT_7/BPLL_T_IN0 | True_of_IOB89B | True | x16 | H17 |
| IOB89B/GCLKC_7 | I/O | 3 | DQ4 | GCLKC_7 | Comp_of_IOB89A | True | none | H18 |
| IOB91A/GCLKT_6A | I/O | 3 | DQ4 | GCLKT_6A | True_of_IOB91B | True | x16 | L15 |

| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | UG324 |
|-----------------------------|-----|------|------------|---------------------|----------------|------|------|-------|
| I0B91B/GCLKC_6A | I/O | 3 | DQ4 | GCLKC_6A | Comp_of_I0B91A | True | none | L16 |
| BANK2 True LVDS Pair | | | | | | | | |
| I0R12A | I/O | 2 | DQS2/DQ2 | | True_of_I0R12B | True | x16 | D17 |
| I0R12B | I/O | 2 | DQS2/DQ2 | | Comp_of_I0R12A | True | none | D18 |
| I0R14A | I/O | 2 | DQ2 | | True_of_I0R14B | True | x16 | F15 |
| I0R14B | I/O | 2 | DQ2 | | Comp_of_I0R14A | True | none | F16 |
| I0R16A | I/O | 2 | DQ2 | | True_of_I0R16B | True | x16 | E16 |
| I0R16B | I/O | 2 | DQ2 | | Comp_of_I0R16A | True | none | E18 |
| I0R18A | I/O | 2 | DQ2/DQS_23 | | True_of_I0R18B | True | x16 | H13 |
| I0R18B | I/O | 2 | DQ2/DQS_23 | | Comp_of_I0R18A | True | none | H14 |
| I0R20A | I/O | 2 | DQ3 | | True_of_I0R20B | True | x16 | F17 |
| I0R20B | I/O | 2 | DQ3 | | Comp_of_I0R20A | True | none | F18 |
| I0R22A | I/O | 2 | DQ3 | | True_of_I0R22B | True | x16 | G16 |
| I0R22B | I/O | 2 | DQ3 | | Comp_of_I0R22A | True | none | G18 |
| I0R24A | I/O | 2 | DQ3 | | True_of_I0R24B | True | x16 | H15 |
| I0R26A | I/O | 2 | DQS3/DQ3 | | True_of_I0R26B | True | x16 | J13 |
| I0R26B | I/O | 2 | DQS3/DQ3 | | Comp_of_I0R26A | True | none | K14 |
| I0R29A | I/O | 2 | DQ3 | | True_of_I0R29B | True | x16 | K12 |
| I0R29B | I/O | 2 | DQ3 | | Comp_of_I0R29A | True | none | K13 |
| I0R31A/GCLKT_4/RPLL1_T_IN0 | I/O | 2 | DQ3 | GCLKT_4/RPLL1_T_IN0 | True_of_I0R31B | True | x16 | L12 |
| I0R31B/GCLKC_4/RPLL1_C_FB1 | I/O | 2 | DQ3 | GCLKC_4/RPLL1_C_FB1 | Comp_of_I0R31A | True | none | L13 |
| I0R33A/GCLKT_5/RPLL1_T_IN1 | I/O | 2 | none | GCLKT_5/RPLL1_T_IN1 | True_of_I0R33B | True | x16 | K15 |
| I0R33B/GCLKC_5/RPLL1_C_FB0 | I/O | 2 | none | GCLKC_5/RPLL1_C_FB0 | Comp_of_I0R33A | True | none | K16 |
| I0R5A | I/O | 2 | none | | True_of_I0R5B | True | x16 | H12 |
| I0R5B | I/O | 2 | none | | Comp_of_I0R5A | True | none | G13 |
| I0R7A | I/O | 2 | DQ2 | | True_of_I0R7B | True | x16 | F14 |
| I0R7B | I/O | 2 | DQ2 | | Comp_of_I0R7A | True | none | G14 |

| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | UG324 |
|-----------------------------|-----|------|------------|---------------------|----------------|------|------|-------|
| IOR9A | I/O | 2 | DQ2 | | True_of_IOR9B | True | x16 | C17 |
| IOR9B | I/O | 2 | DQ2 | | Comp_of_IOR9A | True | none | C18 |
| BANK1 True LVDS Pair | | | | | | | | |
| IOT61A/GCLKT_2/TPLL_T_IN0 | I/O | 1 | DQS0/DQ0 | GCLKT_2/TPLL_T_IN0 | True_of_IOT61B | True | x16 | D11 |
| IOT61B/GCLKC_2 | I/O | 1 | DQS0/DQ0 | GCLKC_2 | Comp_of_IOT61A | True | none | C11 |
| IOT63A/GCLKT_3/RPLL0_T_IN0 | I/O | 1 | DQ0 | GCLKT_3/RPLL0_T_IN0 | True_of_IOT63B | True | x16 | C10 |
| IOT63B/GCLKC_3 | I/O | 1 | DQ0 | GCLKC_3 | Comp_of_IOT63A | True | none | A10 |
| IOT66A | I/O | 1 | DQ0 | | True_of_IOT66B | True | x16 | G9 |
| IOT66B | I/O | 1 | DQ0 | | Comp_of_IOT66A | True | none | F9 |
| IOT68A | I/O | 1 | DQ0 | | True_of_IOT68B | True | x16 | B11 |
| IOT68B | I/O | 1 | DQ0 | | Comp_of_IOT68A | True | none | A11 |
| IOT70A | I/O | 1 | DQ0 | | True_of_IOT70B | True | x16 | G11 |
| IOT70B | I/O | 1 | DQ0 | | Comp_of_IOT70A | True | none | F10 |
| IOT72B | I/O | 1 | DQ0 | | Comp_of_IOT72A | True | none | A12 |
| IOT74A | I/O | 1 | DQ1/DQS_01 | | True_of_IOT74B | True | x16 | F11 |
| IOT74B | I/O | 1 | DQ1/DQS_01 | | Comp_of_IOT74A | True | none | E11 |
| IOT76A | I/O | 1 | DQ1 | | True_of_IOT76B | True | x16 | D12 |
| IOT76B | I/O | 1 | DQ1 | | Comp_of_IOT76A | True | none | C12 |
| IOT78A | I/O | 1 | DQ1 | | True_of_IOT78B | True | x16 | C13 |
| IOT78B | I/O | 1 | DQ1 | | Comp_of_IOT78A | True | none | A13 |
| IOT80A | I/O | 1 | DQS1/DQ1 | | True_of_IOT80B | True | x16 | F12 |
| IOT80B | I/O | 1 | DQS1/DQ1 | | Comp_of_IOT80A | True | none | E12 |
| IOT83A | I/O | 1 | DQ1 | | True_of_IOT83B | True | x16 | B14 |
| IOT83B | I/O | 1 | DQ1 | | Comp_of_IOT83A | True | none | A14 |
| IOT85A | I/O | 1 | DQ1 | | True_of_IOT85B | True | x16 | F13 |
| IOT85B | I/O | 1 | DQ1 | | Comp_of_IOT85A | True | none | E13 |
| IOT87A | I/O | 1 | none | | True_of_IOT87B | True | x16 | C15 |

| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | UG324 |
|-----------------------------|-----|------|------|-------------|----------------|------|------|-------|
| IOT87B | I/O | 1 | none | | Comp_of_IOT87A | True | none | A15 |
| IOT89A/RPLL0_T_FB1 | I/O | 1 | none | RPLL0_T_FB1 | True_of_IOT89B | True | x16 | D14 |
| IOT89B | I/O | 1 | none | | Comp_of_IOT89A | True | none | C14 |
| IOT91A/RPLL0_T_IN1 | I/O | 1 | none | RPLL0_T_IN1 | True_of_IOT91B | True | x16 | B16 |
| IOT91B/RPLL0_C_FB0 | I/O | 1 | none | RPLL0_C_FB0 | Comp_of_IOT91A | True | none | A16 |
| BANK0 True LVDS Pair | | | | | | | | |
| IOT29A/PUDC_B | I/O | 0 | none | PUDC_B | True_of_IOT29B | True | x16 | D4 |
| IOT29B | I/O | 0 | none | | Comp_of_IOT29A | True | none | C4 |
| IOT31A | I/O | 0 | none | | True_of_IOT31B | True | x16 | B2 |
| IOT31B | I/O | 0 | none | | Comp_of_IOT31A | True | none | A2 |
| IOT33A | I/O | 0 | none | | True_of_IOT33B | True | x16 | D6 |
| IOT33B | I/O | 0 | none | | Comp_of_IOT33A | True | none | C6 |
| IOT35A | I/O | 0 | none | | True_of_IOT35B | True | x16 | B3 |
| IOT35B | I/O | 0 | none | | Comp_of_IOT35A | True | none | A3 |
| IOT37A | I/O | 0 | none | | True_of_IOT37B | True | x16 | B4 |
| IOT37B | I/O | 0 | none | | Comp_of_IOT37A | True | none | A4 |
| IOT39A | I/O | 0 | none | | True_of_IOT39B | True | x16 | C5 |
| IOT39B | I/O | 0 | none | | Comp_of_IOT39A | True | none | A5 |
| IOT41A | I/O | 0 | none | | True_of_IOT41B | True | x16 | F7 |
| IOT41B | I/O | 0 | none | | Comp_of_IOT41A | True | none | E6 |
| IOT43A | I/O | 0 | none | | True_of_IOT43B | True | x16 | B6 |
| IOT43B | I/O | 0 | none | | Comp_of_IOT43A | True | none | A6 |
| IOT45A | I/O | 0 | none | | True_of_IOT45B | True | x16 | E7 |
| IOT45B | I/O | 0 | none | | Comp_of_IOT45A | True | none | E8 |
| IOT48A | I/O | 0 | none | | True_of_IOT48B | True | x16 | C7 |
| IOT48B | I/O | 0 | none | | Comp_of_IOT48A | True | none | A7 |
| IOT50A | I/O | 0 | none | | True_of_IOT50B | True | x16 | D8 |

| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | UG324 |
|---------------------------|-----|------|------|--------------------|----------------|------|------|-------|
| IOT50B | I/O | 0 | none | | Comp_of_IOT50A | True | none | C8 |
| IOT52A | I/O | 0 | none | | True_of_IOT52B | True | x16 | G8 |
| IOT52B | I/O | 0 | none | | Comp_of_IOT52A | True | none | F8 |
| IOT54A | I/O | 0 | none | | True_of_IOT54B | True | x16 | B8 |
| IOT54B | I/O | 0 | none | | Comp_of_IOT54A | True | none | A8 |
| IOT56A/GCLKT_0/TPLL_T_IN1 | I/O | 0 | none | GCLKT_0/TPLL_T_IN1 | True_of_IOT56B | True | x16 | D9 |
| IOT56B/GCLKC_0/TPLL_C_FB1 | I/O | 0 | none | GCLKC_0/TPLL_C_FB1 | Comp_of_IOT56A | True | none | C9 |
| IOT58A/GCLKT_1/TPLL_T_IN2 | I/O | 0 | none | GCLKT_1/TPLL_T_IN2 | True_of_IOT58B | True | x16 | B9 |
| IOT58B/GCLKC_1/TPLL_C_FB0 | I/O | 0 | none | GCLKC_1/TPLL_C_FB0 | Comp_of_IOT58A | True | none | A9 |

| 注！ [1] EV版本封装。 [2] LV版本封装。 | | | | | | | | | |
|----------------------------------|-----|------|------|-----------------------|----------------|------|------|-----------------------|-----------------------|
| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | MG196S ^[1] | MG196S ^[2] |
| BANK7 True LVDS Pair | | | | | | | | | |
| IOT11A | I/O | 7 | none | | True_of_IOT11B | True | x16 | D4 | D4 |
| IOT11B | I/O | 7 | none | | Comp_of_IOT11A | True | none | D3 | D3 |
| IOT1A/GCLKT_15/LPLL0_T_IN0 | I/O | 7 | none | GCLKT_15/LPLL0_T_IN0 | True_of_IOT1B | True | x16 | F2 | F2 |
| IOT1B/GCLKC_15 | I/O | 7 | none | GCLKC_15 | Comp_of_IOT1A | True | none | F1 | F1 |
| IOT3A/GCLKT_16 | I/O | 7 | none | GCLKT_16 | True_of_IOT3B | True | x16 | G2 | G2 |
| IOT3B/GCLKC_16 | I/O | 7 | none | GCLKC_16 | Comp_of_IOT3A | True | none | G1 | G1 |
| IOT5A | I/O | 7 | none | | True_of_IOT5B | True | x16 | E2 | E2 |
| IOT5B | I/O | 7 | none | | Comp_of_IOT5A | True | none | E1 | E1 |
| IOT7A | I/O | 7 | none | | True_of_IOT7B | True | x16 | D2 | D2 |
| IOT7B | I/O | 7 | none | | Comp_of_IOT7A | True | none | D1 | D1 |
| IOT9A | I/O | 7 | none | | True_of_IOT9B | True | x16 | C1 | C1 |
| IOT9B | I/O | 7 | none | | Comp_of_IOT9A | True | none | B1 | B1 |
| BANK6 True LVDS Pair | | | | | | | | | |
| IOL25A | I/O | 6 | DQ6 | | True_of_IOL25B | True | x16 | J4 | J4 |
| IOL25B | I/O | 6 | DQ6 | | Comp_of_IOL25A | True | none | J3 | J3 |
| IOL27A | I/O | 6 | DQ6 | | True_of_IOL27B | True | x16 | K2 | K2 |
| IOL27B | I/O | 6 | DQ6 | | Comp_of_IOL27A | True | none | K1 | K1 |
| IOL29A | I/O | 6 | none | | True_of_IOL29B | True | x16 | L2 | L2 |
| IOL29B | I/O | 6 | none | | Comp_of_IOL29A | True | none | L1 | L1 |
| IOL31A | I/O | 6 | none | | True_of_IOL31B | True | x16 | M2 | M2 |
| IOL31B | I/O | 6 | none | | Comp_of_IOL31A | True | none | M1 | M1 |
| IOL3A/GCLKT_14A/LPLL0_T_IN2 | I/O | 6 | DQ7 | GCLKT_14A/LPLL0_T_IN2 | True_of_IOL3B | True | x16 | H2 | H2 |
| IOL3B/GCLKC_14/LPLL0_C_FB0 | I/O | 6 | DQ7 | GCLKC_14/LPLL0_C_FB0 | Comp_of_IOL3A | True | none | H1 | H1 |
| IOL5A/GCLKT_13/LPLL0_T_IN1 | I/O | 6 | DQ7 | GCLKT_13/LPLL0_T_IN1 | True_of_IOL5B | True | x16 | J2 | J2 |
| IOL5B/GCLKC_13/LPLL0_C_FB1 | I/O | 6 | DQ7 | GCLKC_13/LPLL0_C_FB1 | Comp_of_IOL5A | True | none | J1 | J1 |
| IOL7A | I/O | 6 | DQ7 | | True_of_IOL7B | True | x16 | F4 | F4 |

| 注! | | | | | | | | | |
|--------------------------------------|-----|------|------|-------------------------------|----------------|------|------|-----------------------|-----------------------|
| [1] EV版本封装。 | | | | | | | | | |
| [2] LV版本封装。 | | | | | | | | | |
| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | MG196S ^[1] | MG196S ^[2] |
| IOL7B | I/O | 6 | DQ7 | | Comp_of_IOL7A | True | none | F3 | F3 |
| BANK5 True LVDS Pair | | | | | | | | | |
| IOB10A/D03/SSPI_CN/SSI0 | I/O | 5 | none | D03/SSPI_CN/SSI0 | True_of_IOB10B | True | x16 | N5 | N5 |
| IOB10B/D04/SI | I/O | 5 | none | D04/SI | Comp_of_IOB10A | True | none | P5 | P5 |
| IOB12A/GCLKT_10B/D07/SSPI_WP/SSPI2 | I/O | 5 | none | GCLKT_10B/D07/SSPI_WP/SSPI2 | True_of_IOB12B | True | x16 | N6 | N6 |
| IOB12B/GCLKC_10B/RDWR_B/LP/LL1_C_IN1 | I/O | 5 | none | GCLKC_10B/RDWR_B/LP/LL1_C_IN1 | Comp_of_IOB12A | True | none | P6 | P6 |
| IOB14A/SSPI_CLK | I/O | 5 | none | SSPI_CLK | True_of_IOB14B | True | x16 | N4 | N4 |
| IOB14B/CLKHOLD_N/SSI3 | I/O | 5 | none | CLKHOLD_N/SSI3 | Comp_of_IOB14A | True | none | P4 | P4 |
| IOB4A/D08/SDA | I/O | 5 | none | D08/SDA | True_of_IOB4B | True | x16 | N3 | N3 |
| IOB4B/D09/SCL/LPLL1_C_FB0 | I/O | 5 | none | D09/SCL/LPLL1_C_FB0 | Comp_of_IOB4A | True | none | P3 | P3 |
| IOB8A/D05/SO/SSI1 | I/O | 5 | none | D05/SO/SSI1 | True_of_IOB8B | True | x16 | L4 | L4 |
| IOB8B/D06 | I/O | 5 | none | D06 | Comp_of_IOB8A | True | none | M4 | M4 |
| BANK4 True LVDS Pair | | | | | | | | | |
| IOB31A/GCLKT_10A/D14 | I/O | 4 | none | GCLKT_10A/D14 | True_of_IOB31B | True | x16 | N7 | N7 |
| IOB31B/GCLKC_10A/D15/BPLL_C_FB0 | I/O | 4 | none | GCLKC_10A/D15/BPLL_C_FB0 | Comp_of_IOB31A | True | none | P7 | P7 |
| IOB33A/GCLKT_9/D13/BPLL_T_IN1 | I/O | 4 | none | GCLKT_9/D13/BPLL_T_IN1 | True_of_IOB33B | True | x16 | N8 | N8 |
| IOB33B/GCLKC_9/EMCCLK | I/O | 4 | none | GCLKC_9/EMCCLK | Comp_of_IOB33A | True | none | P8 | P8 |
| IOB37A/READY | I/O | 4 | none | READY | True_of_IOB37B | True | x16 | N2 | N2 |
| IOB37B/MCS_N/CSO_B | I/O | 4 | none | MCS_N/CSO_B | Comp_of_IOB37A | True | none | P2 | P2 |
| IOB50A/D11 | I/O | 4 | none | D11 | True_of_IOB50B | True | x16 | L8 | L8 |
| IOB50B/D12 | I/O | 4 | none | D12 | Comp_of_IOB50A | True | none | M8 | M8 |
| IOB52A/MODE1 | I/O | 4 | none | MODE1 | True_of_IOB52B | True | x16 | N9 | N9 |
| IOB52B/D10 | I/O | 4 | none | D10 | Comp_of_IOB52A | True | none | P9 | P9 |

| 注! | | | | | | | | | |
|-------------------------------------|-----|------|----------|------------------------------|----------------|------|------|-----------------------|-----------------------|
| [1] EV版本封装。 | | | | | | | | | |
| [2] LV版本封装。 | | | | | | | | | |
| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | MG196S ^[1] | MG196S ^[2] |
| IOB54A/GCLKT_11B/D01/MI2 | I/O | 4 | none | GCLKT_11B/D01/MI2 | True_of_IOB54B | True | x16 | N10 | N10 |
| IOB54B/GCLKC_11B/D02/BPLL_C_FB1/MI3 | I/O | 4 | none | GCLKC_11B/D02/BPLL_C_FB1/MI3 | Comp_of_IOB54A | True | none | P10 | P10 |
| IOB56A | I/O | 4 | none | | True_of_IOB56B | True | x16 | N12 | N12 |
| IOB56B | I/O | 4 | none | | Comp_of_IOB56A | True | none | P12 | P12 |
| IOB58A/D00/MISO/MI1/DIN | I/O | 4 | none | D00/MISO/MI1/DIN | True_of_IOB58B | True | x16 | N11 | N11 |
| IOB58B/MOSI/CSI_B/MI0 | I/O | 4 | none | MOSI/CSI_B/MI0 | Comp_of_IOB58A | True | none | P11 | P11 |
| IOB60A | I/O | 4 | none | | True_of_IOB60B | True | x16 | M12 | M12 |
| IOB62A/CCLK | I/O | 4 | none | CCLK | True_of_IOB62B | True | x16 | N13 | N13 |
| IOB62B/MODE0 | I/O | 4 | none | MODE0 | Comp_of_IOB62A | True | none | P13 | P13 |
| BANK3 True LVDS Pair | | | | | | | | | |
| IOB65A | I/O | 3 | none | | True_of_IOB65B | True | x16 | M13 | M13 |
| IOB65B/DOUT | I/O | 3 | none | DOUT | Comp_of_IOB65A | True | none | M14 | M14 |
| IOB75A/GCLKT_6B | I/O | 3 | DQS5/DQ5 | GCLKT_6B | True_of_IOB75B | True | x16 | L13 | L13 |
| IOB75B/GCLKC_6B | I/O | 3 | DQS5/DQ5 | GCLKC_6B | Comp_of_IOB75A | True | none | L14 | L14 |
| IOB85A | I/O | 3 | DQS4/DQ4 | | True_of_IOB85B | True | x16 | K13 | K13 |
| IOB85B | I/O | 3 | DQS4/DQ4 | | Comp_of_IOB85A | True | none | K14 | K14 |
| IOB87A | I/O | 3 | DQ4 | | True_of_IOB87B | True | x16 | J13 | J13 |
| IOB87B | I/O | 3 | DQ4 | | Comp_of_IOB87A | True | none | J14 | J14 |
| IOB89A/GCLKT_7/BPLL_T_IN0 | I/O | 3 | DQ4 | GCLKT_7/BPLL_T_IN0 | True_of_IOB89B | True | x16 | H11 | H11 |
| IOB89B/GCLKC_7 | I/O | 3 | DQ4 | GCLKC_7 | Comp_of_IOB89A | True | none | H12 | H12 |
| IOB91A/GCLKT_6A | I/O | 3 | DQ4 | GCLKT_6A | True_of_IOB91B | True | x16 | H13 | H13 |
| IOB91B/GCLKC_6A | I/O | 3 | DQ4 | GCLKC_6A | Comp_of_IOB91A | True | none | H14 | H14 |
| BANK2 True LVDS Pair | | | | | | | | | |
| IOR12A | I/O | 2 | DQS2/DQ2 | | True_of_IOR12B | True | x16 | F11 | F11 |
| IOR12B | I/O | 2 | DQS2/DQ2 | | Comp_of_IOR12A | True | none | F12 | F12 |
| IOR29A | I/O | 2 | DQ3 | | True_of_IOR29B | True | x16 | J11 | J11 |

| 注！ | | | | | | | | | |
|----------------------------|-----|------|----------|---------------------|----------------|------|------|-----------------------|-----------------------|
| [1] EV版本封装。 | | | | | | | | | |
| [2] LV版本封装。 | | | | | | | | | |
| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | MG196S ^[1] | MG196S ^[2] |
| IOR29B | I/O | 2 | DQ3 | | Comp_of_IOR29A | True | none | J12 | J12 |
| IOR31A/GCLKT_4/RPLL1_T_IN0 | I/O | 2 | DQ3 | GCLKT_4/RPLL1_T_IN0 | True_of_IOR31B | True | x16 | F13 | F13 |
| IOR31B/GCLKC_4/RPLL1_C_FB1 | I/O | 2 | DQ3 | GCLKC_4/RPLL1_C_FB1 | Comp_of_IOR31A | True | none | F14 | F14 |
| IOR33A/GCLKT_5/RPLL1_T_IN1 | I/O | 2 | none | GCLKT_5/RPLL1_T_IN1 | True_of_IOR33B | True | x16 | G13 | G13 |
| IOR33B/GCLKC_5/RPLL1_C_FB0 | I/O | 2 | none | GCLKC_5/RPLL1_C_FB0 | Comp_of_IOR33A | True | none | G14 | G14 |
| IOR5A | I/O | 2 | none | | True_of_IOR5B | True | x16 | C12 | C12 |
| IOR5B | I/O | 2 | none | | Comp_of_IOR5A | True | none | C13 | C13 |
| IOR7A | I/O | 2 | DQ2 | | True_of_IOR7B | True | x16 | D13 | D13 |
| IOR7B | I/O | 2 | DQ2 | | Comp_of_IOR7A | True | none | D14 | D14 |
| IOR9A | I/O | 2 | DQ2 | | True_of_IOR9B | True | x16 | E13 | E13 |
| IOR9B | I/O | 2 | DQ2 | | Comp_of_IOR9A | True | none | E14 | E14 |
| BANK1 True LVDS Pair | | | | | | | | | |
| IOT61A/GCLKT_2/TPLL_T_IN0 | I/O | 1 | DQS0/DQ0 | GCLKT_2/TPLL_T_IN0 | True_of_IOT61B | True | x16 | D8 | D8 |
| IOT61B/GCLKC_2 | I/O | 1 | DQS0/DQ0 | GCLKC_2 | Comp_of_IOT61A | True | none | C8 | C8 |
| IOT63A/GCLKT_3/RPLL0_T_IN0 | I/O | 1 | DQ0 | GCLKT_3/RPLL0_T_IN0 | True_of_IOT63B | True | x16 | B8 | B8 |
| IOT63B/GCLKC_3 | I/O | 1 | DQ0 | GCLKC_3 | Comp_of_IOT63A | True | none | A8 | A8 |
| IOT66A | I/O | 1 | DQ0 | | True_of_IOT66B | True | x16 | B9 | B9 |
| IOT66B | I/O | 1 | DQ0 | | Comp_of_IOT66A | True | none | A9 | A9 |
| IOT72A | I/O | 1 | DQ0 | | True_of_IOT72B | True | x16 | B10 | B10 |
| IOT72B | I/O | 1 | DQ0 | | Comp_of_IOT72A | True | none | A10 | A10 |
| IOT78A | I/O | 1 | DQ1 | | True_of_IOT78B | True | x16 | B11 | B11 |
| IOT78B | I/O | 1 | DQ1 | | Comp_of_IOT78A | True | none | A11 | A11 |
| IOT89A/RPLL0_T_FB1 | I/O | 1 | none | RPLL0_T_FB1 | True_of_IOT89B | True | x16 | D11 | D11 |
| IOT89B | I/O | 1 | none | | Comp_of_IOT89A | True | none | C11 | C11 |
| IOT91A/RPLL0_T_IN1 | I/O | 1 | none | RPLL0_T_IN1 | True_of_IOT91B | True | x16 | B12 | B12 |
| IOT91B/RPLL0_C_FB0 | I/O | 1 | none | RPLL0_C_FB0 | Comp_of_IOT91A | True | none | A12 | A12 |

| 注！ | | | | | | | | | |
|-----------------------------|-----|------|------|--------------------|----------------|------|------|-----------------------|-----------------------|
| [1] EV版本封装。 | | | | | | | | | |
| [2] LV版本封装。 | | | | | | | | | |
| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | MG196S ^[1] | MG196S ^[2] |
| BANK0 True LVDS Pair | | | | | | | | | |
| IOT29A/PUDC_B | I/O | 0 | none | PUDC_B | True_of_IOT29B | True | x16 | B2 | B2 |
| IOT29B | I/O | 0 | none | | Comp_of_IOT29A | True | none | A2 | A2 |
| IOT35A | I/O | 0 | none | | True_of_IOT35B | True | x16 | B3 | B3 |
| IOT35B | I/O | 0 | none | | Comp_of_IOT35A | True | none | A3 | A3 |
| IOT39A | I/O | 0 | none | | True_of_IOT39B | True | x16 | B4 | B4 |
| IOT39B | I/O | 0 | none | | Comp_of_IOT39A | True | none | A4 | A4 |
| IOT45A | I/O | 0 | none | | True_of_IOT45B | True | x16 | B5 | B5 |
| IOT45B | I/O | 0 | none | | Comp_of_IOT45A | True | none | A5 | A5 |
| IOT56A/GCLKT_0/TPLL_T_IN1 | I/O | 0 | none | GCLKT_0/TPLL_T_IN1 | True_of_IOT56B | True | x16 | B6 | B6 |
| IOT56B/GCLKC_0/TPLL_C_FB1 | I/O | 0 | none | GCLKC_0/TPLL_C_FB1 | Comp_of_IOT56A | True | none | A6 | A6 |
| IOT58A/GCLKT_1/TPLL_T_IN2 | I/O | 0 | none | GCLKT_1/TPLL_T_IN2 | True_of_IOT58B | True | x16 | B7 | B7 |
| IOT58B/GCLKC_1/TPLL_C_FB0 | I/O | 0 | none | GCLKC_1/TPLL_C_FB0 | Comp_of_IOT58A | True | none | A7 | A7 |

| 注！ [1] EV版本封装。 [2] LV版本封装。 | | | | | | | | | |
|----------------------------------|-----|------|----------|----------------------|----------------|------|------|-----------------------|-----------------------|
| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | UG225S ^[1] | UG225S ^[2] |
| BANK7 True LVDS Pair | | | | | | | | | |
| IOT11A | I/O | 7 | none | | True_of_IOT11B | True | x16 | D3 | D3 |
| IOT11B | I/O | 7 | none | | Comp_of_IOT11A | True | none | D1 | D1 |
| IOT13A | I/O | 7 | none | | True_of_IOT13B | True | x16 | C2 | C2 |
| IOT13B | I/O | 7 | none | | Comp_of_IOT13A | True | none | C1 | C1 |
| IOT15A | I/O | 7 | none | | True_of_IOT15B | True | x16 | D4 | D4 |
| IOT15B | I/O | 7 | none | | Comp_of_IOT15A | True | none | E3 | E3 |
| IOT17A | I/O | 7 | none | | True_of_IOT17B | True | x16 | E5 | E5 |
| IOT17B | I/O | 7 | none | | Comp_of_IOT17A | True | none | E4 | E4 |
| IOT1A/GCLKT_15/LPLL0_T_IN0 | I/O | 7 | none | GCLKT_15/LPLL0_T_IN0 | True_of_IOT1B | True | x16 | G2 | G2 |
| IOT1B/GCLKC_15 | I/O | 7 | none | GCLKC_15 | Comp_of_IOT1A | True | none | G1 | G1 |
| IOT3A/GCLKT_16 | I/O | 7 | none | GCLKT_16 | True_of_IOT3B | True | x16 | H3 | H3 |
| IOT3B/GCLKC_16 | I/O | 7 | none | GCLKC_16 | Comp_of_IOT3A | True | none | H1 | H1 |
| IOT5A | I/O | 7 | none | | True_of_IOT5B | True | x16 | F5 | F5 |
| IOT5B | I/O | 7 | none | | Comp_of_IOT5A | True | none | F4 | F4 |
| IOT7A | I/O | 7 | none | | True_of_IOT7B | True | x16 | F3 | F3 |
| IOT7B | I/O | 7 | none | | Comp_of_IOT7A | True | none | F1 | F1 |
| IOT9A | I/O | 7 | none | | True_of_IOT9B | True | x16 | E2 | E2 |
| IOT9B | I/O | 7 | none | | Comp_of_IOT9A | True | none | E1 | E1 |
| BANK6 True LVDS Pair | | | | | | | | | |
| IOL12A | I/O | 6 | DQ7 | | True_of_IOL12B | True | x16 | M3 | M3 |
| IOL12B | I/O | 6 | DQ7 | | Comp_of_IOL12A | True | none | M1 | M1 |
| IOL14A/LPLL1_T_IN0 | I/O | 6 | DQ7 | LPLL1_T_IN0 | True_of_IOL14B | True | x16 | N2 | N2 |
| IOL14B | I/O | 6 | DQ7 | | Comp_of_IOL14A | True | none | N1 | N1 |
| IOL18A | I/O | 6 | DQ6 | | True_of_IOL18B | True | x16 | G5 | G5 |
| IOL18B | I/O | 6 | DQ6 | | Comp_of_IOL18A | True | none | G3 | G3 |
| IOL21A | I/O | 6 | DQS6/DQ6 | | True_of_IOL21B | True | x16 | H6 | H6 |

| 注! | | | | | | | | | |
|-------------------------------------|-----|------|----------|------------------------------|----------------|------|------|-----------------------|-----------------------|
| [1] EV版本封装。 | | | | | | | | | |
| [2] LV版本封装。 | | | | | | | | | |
| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | UG225S ^[1] | UG225S ^[2] |
| IOL21B | I/O | 6 | DQS6/DQ6 | | Comp_of_IOL21A | True | none | H5 | H5 |
| IOL23A | I/O | 6 | DQ6 | | True_of_IOL23B | True | x16 | K5 | K5 |
| IOL23B | I/O | 6 | DQ6 | | Comp_of_IOL23A | True | none | J4 | J4 |
| IOL25A | I/O | 6 | DQ6 | | True_of_IOL25B | True | x16 | J5 | J5 |
| IOL25B | I/O | 6 | DQ6 | | Comp_of_IOL25A | True | none | H4 | H4 |
| IOL29A | I/O | 6 | none | | True_of_IOL29B | True | x16 | M4 | M4 |
| IOL29B | I/O | 6 | none | | Comp_of_IOL29A | True | none | L3 | L3 |
| IOL31A | I/O | 6 | none | | True_of_IOL31B | True | x16 | P2 | P2 |
| IOL31B | I/O | 6 | none | | Comp_of_IOL31A | True | none | P1 | P1 |
| IOL3A/GCLKT_14A/LPLL0_T_IN2 | I/O | 6 | DQ7 | GCLKT_14A/LPLL0_T_IN2 | True_of_IOL3B | True | x16 | J2 | J2 |
| IOL3B/GCLKC_14/LPLL0_C_FB0 | I/O | 6 | DQ7 | GCLKC_14/LPLL0_C_FB0 | Comp_of_IOL3A | True | none | J1 | J1 |
| IOL5A/GCLKT_13/LPLL0_T_IN1 | I/O | 6 | DQ7 | GCLKT_13/LPLL0_T_IN1 | True_of_IOL5B | True | x16 | K4 | K4 |
| IOL5B/GCLKC_13/LPLL0_C_FB1 | I/O | 6 | DQ7 | GCLKC_13/LPLL0_C_FB1 | Comp_of_IOL5A | True | none | J3 | J3 |
| IOL7A | I/O | 6 | DQ7 | | True_of_IOL7B | True | x16 | K3 | K3 |
| IOL7B | I/O | 6 | DQ7 | | Comp_of_IOL7A | True | none | K1 | K1 |
| IOL9A | I/O | 6 | DQS7/DQ7 | | True_of_IOL9B | True | x16 | L2 | L2 |
| IOL9B | I/O | 6 | DQS7/DQ7 | | Comp_of_IOL9A | True | none | L1 | L1 |
| BANK5 True LVDS Pair | | | | | | | | | |
| IOB10A/D03/SSPI_CN/SSI0 | I/O | 5 | none | D03/SSPI_CS_N/SSI0 | True_of_IOB10B | True | x16 | P5 | P5 |
| IOB10B/D04/SI | I/O | 5 | none | D04/SI | Comp_of_IOB10A | True | none | R5 | R5 |
| IOB12A/GCLKT_10B/D07/SSPI_WP/SSI2 | I/O | 5 | none | GCLKT_10B/D07/SSPI_WP/SSI2 | True_of_IOB12B | True | x16 | N6 | N6 |
| IOB12B/GCLKC_10B/RDWR_B/LPLL1_C_IN1 | I/O | 5 | none | GCLKC_10B/RDWR_B/LPLL1_C_IN1 | Comp_of_IOB12A | True | none | R6 | R6 |
| IOB14A/SSPI_CLK | I/O | 5 | none | SSPI_CLK | True_of_IOB14B | True | x16 | N4 | N4 |
| IOB14B/CLKHOLD_N/SSI3 | I/O | 5 | none | CLKHOLD_N/SSI3 | Comp_of_IOB14A | True | none | R4 | R4 |
| IOB26A/GCLKT_12 | I/O | 5 | none | GCLKT_12 | True_of_IOB26B | True | x16 | L7 | L7 |

| 注! | | | | | | | | | |
|---------------------------------|-----|------|------|--------------------------|----------------|------|------|-----------------------|-----------------------|
| [1] EV版本封装。 | | | | | | | | | |
| [2] LV版本封装。 | | | | | | | | | |
| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | UG225S ^[1] | UG225S ^[2] |
| IOB26B/GCLKC_12 | I/O | 5 | none | GCLKC_12 | Comp_of_IOB26A | True | none | M6 | M6 |
| IOB4A/D08/SDA | I/O | 5 | none | D08/SDA | True_of_IOB4B | True | x16 | M5 | M5 |
| IOB4B/D09/SCL/LPLL1_C_FB0 | I/O | 5 | none | D09/SCL/LPLL1_C_FB0 | Comp_of_IOB4A | True | none | N5 | N5 |
| IOB8A/D05/SO/SSI1 | I/O | 5 | none | D05/SO/SSI1 | True_of_IOB8B | True | x16 | L6 | L6 |
| IOB8B/D06 | I/O | 5 | none | D06 | Comp_of_IOB8A | True | none | L5 | L5 |
| BANK4 True LVDS Pair | | | | | | | | | |
| IOB29A/GCLKT_11A | I/O | 4 | none | GCLKT_11A | True_of_IOB29B | True | x16 | P7 | P7 |
| IOB29B/GCLKC_11A | I/O | 4 | none | GCLKC_11A | Comp_of_IOB29A | True | none | R7 | R7 |
| IOB31A/GCLKT_10A/D14 | I/O | 4 | none | GCLKT_10A/D14 | True_of_IOB31B | True | x16 | K8 | K8 |
| IOB31B/GCLKC_10A/D15/BPLL_C_FB0 | I/O | 4 | none | GCLKC_10A/D15/BPLL_C_FB0 | Comp_of_IOB31A | True | none | L8 | L8 |
| IOB33A/GCLKT_9/D13/BPLL_T_IN1 | I/O | 4 | none | GCLKT_9/D13/BPLL_T_IN1 | True_of_IOB33B | True | x16 | M8 | M8 |
| IOB33B/GCLKC_9/EMCCLK | I/O | 4 | none | GCLKC_9/EMCCLK | Comp_of_IOB33A | True | none | N7 | N7 |
| IOB35A/GCLKT_8 | I/O | 4 | none | GCLKT_8 | True_of_IOB35B | True | x16 | N8 | N8 |
| IOB35B/GCLKC_8 | I/O | 4 | none | GCLKC_8 | Comp_of_IOB35A | True | none | R8 | R8 |
| IOB37A/READY | I/O | 4 | none | READY | True_of_IOB37B | True | x16 | P3 | P3 |
| IOB37B/MCS_N/CSO_B | I/O | 4 | none | MCS_N/CSO_B | Comp_of_IOB37A | True | none | R3 | R3 |
| IOB45A | I/O | 4 | none | | True_of_IOB45B | True | x16 | P9 | P9 |
| IOB45B | I/O | 4 | none | | Comp_of_IOB45A | True | none | R9 | R9 |
| IOB48A | I/O | 4 | none | | True_of_IOB48B | True | x16 | M9 | M9 |
| IOB48B | I/O | 4 | none | | Comp_of_IOB48A | True | none | N9 | N9 |
| IOB50A/D11 | I/O | 4 | none | D11 | True_of_IOB50B | True | x16 | L9 | L9 |
| IOB50B/D12 | I/O | 4 | none | D12 | Comp_of_IOB50A | True | none | M10 | M10 |
| IOB52A/MODE1 | I/O | 4 | none | MODE1 | True_of_IOB52B | True | x16 | N10 | N10 |
| IOB52B/D10 | I/O | 4 | none | D10 | Comp_of_IOB52A | True | none | R10 | R10 |
| IOB54A/GCLKT_11B/D01/MI2 | I/O | 4 | none | GCLKT_11B/D01/MI2 | True_of_IOB54B | True | x16 | M11 | M11 |

| 注! | | | | | | | | | |
|-------------------------------------|-----|------|------------|------------------------------|----------------|------|------|-----------------------|-----------------------|
| [1] EV版本封装。 | | | | | | | | | |
| [2] LV版本封装。 | | | | | | | | | |
| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | UG225S ^[1] | UG225S ^[2] |
| IOB54B/GCLKC_11B/D02/BPLL_C_FB1/MI3 | I/O | 4 | none | GCLKC_11B/D02/BPLL_C_FB1/MI3 | Comp_of_IOB54A | True | none | N11 | N11 |
| IOB56A | I/O | 4 | none | | True_of_IOB56B | True | x16 | P13 | P13 |
| IOB56B | I/O | 4 | none | | Comp_of_IOB56A | True | none | R13 | R13 |
| IOB58A/D00/MISO/MI1/DIN | I/O | 4 | none | D00/MISO/MI1/DIN | True_of_IOB58B | True | x16 | P11 | P11 |
| IOB58B/MOSI/CSI_B/MI0 | I/O | 4 | none | MOSI/CSI_B/MI0 | Comp_of_IOB58A | True | none | R11 | R11 |
| IOB60A | I/O | 4 | none | | True_of_IOB60B | True | x16 | L10 | L10 |
| IOB62A/CCLK | I/O | 4 | none | CCLK | True_of_IOB62B | True | x16 | N12 | N12 |
| IOB62B/MODE0 | I/O | 4 | none | MODE0 | Comp_of_IOB62A | True | none | R12 | R12 |
| BANK3 True LVDS Pair | | | | | | | | | |
| IOB65A | I/O | 3 | none | | True_of_IOB65B | True | x16 | P14 | P14 |
| IOB65B/DOUT | I/O | 3 | none | DOUT | Comp_of_IOB65A | True | none | P15 | P15 |
| IOB75A/GCLKT_6B | I/O | 3 | DQS5/DQ5 | GCLKT_6B | True_of_IOB75B | True | x16 | K12 | K12 |
| IOB75B/GCLKC_6B | I/O | 3 | DQS5/DQ5 | GCLKC_6B | Comp_of_IOB75A | True | none | L12 | L12 |
| IOB79A | I/O | 3 | DQ5/DQS_45 | | True_of_IOB79B | True | x16 | K10 | K10 |
| IOB79B | I/O | 3 | DQ5/DQS_45 | | Comp_of_IOB79A | True | none | K11 | K11 |
| IOB81A | I/O | 3 | DQ4 | | True_of_IOB81B | True | x16 | N14 | N14 |
| IOB81B | I/O | 3 | DQ4 | | Comp_of_IOB81A | True | none | N15 | N15 |
| IOB83A | I/O | 3 | DQ4 | | True_of_IOB83B | True | x16 | M13 | M13 |
| IOB83B | I/O | 3 | DQ4 | | Comp_of_IOB83A | True | none | M15 | M15 |
| IOB85A | I/O | 3 | DQS4/DQ4 | | True_of_IOB85B | True | x16 | L14 | L14 |
| IOB85B | I/O | 3 | DQS4/DQ4 | | Comp_of_IOB85A | True | none | L15 | L15 |
| IOB87A | I/O | 3 | DQ4 | | True_of_IOB87B | True | x16 | K13 | K13 |
| IOB87B | I/O | 3 | DQ4 | | Comp_of_IOB87A | True | none | K15 | K15 |
| IOB89A/GCLKT_7/BPLL_T_IN0 | I/O | 3 | DQ4 | GCLKT_7/BPLL_T_IN0 | True_of_IOB89B | True | x16 | J14 | J14 |
| IOB89B/GCLKC_7 | I/O | 3 | DQ4 | GCLKC_7 | Comp_of_IOB89A | True | none | J15 | J15 |

| 注! | | | | | | | | | |
|-----------------------------|-----|------|------------|---------------------|----------------|------|------|-----------------------|-----------------------|
| [1] EV版本封装。 | | | | | | | | | |
| [2] LV版本封装。 | | | | | | | | | |
| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | UG225S ^[1] | UG225S ^[2] |
| BANK2 True LVDS Pair | | | | | | | | | |
| IOR12A | I/O | 2 | DQS2/DQ2 | | True_of_IOR12B | True | x16 | D13 | D13 |
| IOR12B | I/O | 2 | DQS2/DQ2 | | Comp_of_IOR12A | True | none | D15 | D15 |
| IOR14A | I/O | 2 | DQ2 | | True_of_IOR14B | True | x16 | E14 | E14 |
| IOR14B | I/O | 2 | DQ2 | | Comp_of_IOR14A | True | none | E15 | E15 |
| IOR16A | I/O | 2 | DQ2 | | True_of_IOR16B | True | x16 | F13 | F13 |
| IOR16B | I/O | 2 | DQ2 | | Comp_of_IOR16A | True | none | F15 | F15 |
| IOR18A | I/O | 2 | DQ2/DQS_23 | | True_of_IOR18B | True | x16 | G11 | G11 |
| IOR18B | I/O | 2 | DQ2/DQS_23 | | Comp_of_IOR18A | True | none | G12 | G12 |
| IOR20A | I/O | 2 | DQ3 | | True_of_IOR20B | True | x16 | H12 | H12 |
| IOR20B | I/O | 2 | DQ3 | | Comp_of_IOR20A | True | none | G13 | G13 |
| IOR22A | I/O | 2 | DQ3 | | True_of_IOR22B | True | x16 | H10 | H10 |
| IOR22B | I/O | 2 | DQ3 | | Comp_of_IOR22A | True | none | H11 | H11 |
| IOR26A | I/O | 2 | DQS3/DQ3 | | True_of_IOR26B | True | x16 | J11 | J11 |
| IOR26B | I/O | 2 | DQS3/DQ3 | | Comp_of_IOR26A | True | none | J13 | J13 |
| IOR31A/GCLKT_4/RPLL1_T_IN0 | I/O | 2 | DQ3 | GCLKT_4/RPLL1_T_IN0 | True_of_IOR31B | True | x16 | G14 | G14 |
| IOR31B/GCLKC_4/RPLL1_C_FB1 | I/O | 2 | DQ3 | GCLKC_4/RPLL1_C_FB1 | Comp_of_IOR31A | True | none | G15 | G15 |
| IOR33A/GCLKT_5/RPLL1_T_IN1 | I/O | 2 | none | GCLKT_5/RPLL1_T_IN1 | True_of_IOR33B | True | x16 | H13 | H13 |
| IOR33B/GCLKC_5/RPLL1_C_FB0 | I/O | 2 | none | GCLKC_5/RPLL1_C_FB0 | Comp_of_IOR33A | True | none | H15 | H15 |
| IOR5A | I/O | 2 | none | | True_of_IOR5B | True | x16 | F11 | F11 |
| IOR5B | I/O | 2 | none | | Comp_of_IOR5A | True | none | F12 | F12 |
| IOR7A | I/O | 2 | DQ2 | | True_of_IOR7B | True | x16 | B14 | B14 |
| IOR7B | I/O | 2 | DQ2 | | Comp_of_IOR7A | True | none | B15 | B15 |
| IOR9A | I/O | 2 | DQ2 | | True_of_IOR9B | True | x16 | C14 | C14 |
| IOR9B | I/O | 2 | DQ2 | | Comp_of_IOR9A | True | none | C15 | C15 |

| 注! | | | | | | | | | |
|-----------------------------|-----|------|----------|---------------------|----------------|------|------|-----------------------|-----------------------|
| [1] EV版本封装。 | | | | | | | | | |
| [2] LV版本封装。 | | | | | | | | | |
| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | UG225S ^[1] | UG225S ^[2] |
| BANK1 True LVDS Pair | | | | | | | | | |
| IOT61A/GCLKT_2/TPLL_T_IN0 | I/O | 1 | DQS0/DQ0 | GCLKT_2/TPLL_T_IN0 | True_of_IOT61B | True | x16 | C8 | C8 |
| IOT61B/GCLKC_2 | I/O | 1 | DQS0/DQ0 | GCLKC_2 | Comp_of_IOT61A | True | none | A8 | A8 |
| IOT63A/GCLKT_3/RPLL0_T_IN0 | I/O | 1 | DQ0 | GCLKT_3/RPLL0_T_IN0 | True_of_IOT63B | True | x16 | B9 | B9 |
| IOT63B/GCLKC_3 | I/O | 1 | DQ0 | GCLKC_3 | Comp_of_IOT63A | True | none | A9 | A9 |
| IOT66A | I/O | 1 | DQ0 | | True_of_IOT66B | True | x16 | F10 | F10 |
| IOT66B | I/O | 1 | DQ0 | | Comp_of_IOT66A | True | none | E9 | E9 |
| IOT68A | I/O | 1 | DQ0 | | True_of_IOT68B | True | x16 | C10 | C10 |
| IOT68B | I/O | 1 | DQ0 | | Comp_of_IOT68A | True | none | A10 | A10 |
| IOT70A | I/O | 1 | DQ0 | | True_of_IOT70B | True | x16 | D10 | D10 |
| IOT70B | I/O | 1 | DQ0 | | Comp_of_IOT70A | True | none | C9 | C9 |
| IOT72A | I/O | 1 | DQ0 | | True_of_IOT72B | True | x16 | B11 | B11 |
| IOT72B | I/O | 1 | DQ0 | | Comp_of_IOT72A | True | none | A11 | A11 |
| IOT83A | I/O | 1 | DQ1 | | True_of_IOT83B | True | x16 | D11 | D11 |
| IOT83B | I/O | 1 | DQ1 | | Comp_of_IOT83A | True | none | C11 | C11 |
| IOT89A/RPLL0_T_FB1 | I/O | 1 | none | RPLL0_T_FB1 | True_of_IOT89B | True | x16 | C12 | C12 |
| IOT89B | I/O | 1 | none | | Comp_of_IOT89A | True | none | A12 | A12 |
| IOT91A/RPLL0_T_IN1 | I/O | 1 | none | RPLL0_T_IN1 | True_of_IOT91B | True | x16 | B13 | B13 |
| IOT91B/RPLL0_C_FB0 | I/O | 1 | none | RPLL0_C_FB0 | Comp_of_IOT91A | True | none | A13 | A13 |
| BANK0 True LVDS Pair | | | | | | | | | |
| IOT29A/PUDC_B | I/O | 0 | none | PUDC_B | True_of_IOT29B | True | x16 | B2 | B2 |
| IOT29B | I/O | 0 | none | | Comp_of_IOT29A | True | none | A2 | A2 |
| IOT33A | I/O | 0 | none | | True_of_IOT33B | True | x16 | B3 | B3 |
| IOT33B | I/O | 0 | none | | Comp_of_IOT33A | True | none | A3 | A3 |
| IOT37A | I/O | 0 | none | | True_of_IOT37B | True | x16 | C4 | C4 |
| IOT37B | I/O | 0 | none | | Comp_of_IOT37A | True | none | A4 | A4 |

注！
[1] EV版本封装。
[2] LV版本封装。

| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | UG225S ^[1] | UG225S ^[2] |
|---------------------------|-----|------|------|--------------------|----------------|------|------|-----------------------|-----------------------|
| IOT41A | I/O | 0 | none | | True_of_IOT41B | True | x16 | D5 | D5 |
| IOT41B | I/O | 0 | none | | Comp_of_IOT41A | True | none | C5 | C5 |
| IOT45A | I/O | 0 | none | | True_of_IOT45B | True | x16 | E6 | E6 |
| IOT45B | I/O | 0 | none | | Comp_of_IOT45A | True | none | D6 | D6 |
| IOT48A | I/O | 0 | none | | True_of_IOT48B | True | x16 | B5 | B5 |
| IOT48B | I/O | 0 | none | | Comp_of_IOT48A | True | none | A5 | A5 |
| IOT50A | I/O | 0 | none | | True_of_IOT50B | True | x16 | C6 | C6 |
| IOT50B | I/O | 0 | none | | Comp_of_IOT50A | True | none | A6 | A6 |
| IOT52A | I/O | 0 | none | | True_of_IOT52B | True | x16 | D7 | D7 |
| IOT52B | I/O | 0 | none | | Comp_of_IOT52A | True | none | C7 | C7 |
| IOT54A | I/O | 0 | none | | True_of_IOT54B | True | x16 | F8 | F8 |
| IOT54B | I/O | 0 | none | | Comp_of_IOT54A | True | none | E8 | E8 |
| IOT56A/GCLKT_0/TPLL_T_IN1 | I/O | 0 | none | GCLKT_0/TPLL_T_IN1 | True_of_IOT56B | True | x16 | E7 | E7 |
| IOT56B/GCLKC_0/TPLL_C_FB1 | I/O | 0 | none | GCLKC_0/TPLL_C_FB1 | Comp_of_IOT56A | True | none | D8 | D8 |
| IOT58A/GCLKT_1/TPLL_T_IN2 | I/O | 0 | none | GCLKT_1/TPLL_T_IN2 | True_of_IOT58B | True | x16 | B7 | B7 |
| IOT58B/GCLKC_1/TPLL_C_FB0 | I/O | 0 | none | GCLKC_1/TPLL_C_FB0 | Comp_of_IOT58A | True | none | A7 | A7 |

| 注！ | | | | | | | | |
|-----------------------------|-----|------|------------|----------------------|----------------|------|------|----------------------|
| [1] EV版本封装。 | | | | | | | | |
| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | LQ100 ^[1] |
| BANK7 True LVDS Pair | | | | | | | | |
| IOT11A | I/O | 7 | none | | True_of_IOT11B | True | x16 | 21 |
| IOT11B | I/O | 7 | none | | Comp_of_IOT11A | True | none | 20 |
| IOT15A | I/O | 7 | none | | True_of_IOT15B | True | x16 | 19 |
| IOT15B | I/O | 7 | none | | Comp_of_IOT15A | True | none | 18 |
| IOT19A | I/O | 7 | none | | True_of_IOT19B | True | x16 | 17 |
| IOT19B | I/O | 7 | none | | Comp_of_IOT19A | True | none | 16 |
| IOT1A/GCLKT_15/LPLL0_T_IN0 | I/O | 7 | none | GCLKT_15/LPLL0_T_IN0 | True_of_IOT1B | True | x16 | 25 |
| IOT1B/GCLKC_15 | I/O | 7 | none | GCLKC_15 | Comp_of_IOT1A | True | none | 24 |
| IOT23A | I/O | 7 | none | | True_of_IOT23B | True | x16 | 15 |
| IOT23B | I/O | 7 | none | | Comp_of_IOT23A | True | none | 14 |
| IOT27A | I/O | 7 | none | | True_of_IOT27B | True | x16 | 13 |
| IOT27B | I/O | 7 | none | | Comp_of_IOT27A | True | none | 12 |
| BANK6 True LVDS Pair | | | | | | | | |
| IOL12A | I/O | 6 | DQ7 | | True_of_IOL12B | True | x16 | 35 |
| IOL12B | I/O | 6 | DQ7 | | Comp_of_IOL12A | True | none | 36 |
| IOL14A/LPLL1_T_IN0 | I/O | 6 | DQ7 | LPLL1_T_IN0 | True_of_IOL14B | True | x16 | 37 |
| IOL14B | I/O | 6 | DQ7 | | Comp_of_IOL14A | True | none | 38 |
| IOL16A | I/O | 6 | DQ6/DQS_67 | | True_of_IOL16B | True | x16 | 39 |
| IOL16B | I/O | 6 | DQ6/DQS_67 | | Comp_of_IOL16A | True | none | 40 |
| IOL21A | I/O | 6 | DQS6/DQ6 | | True_of_IOL21B | True | x16 | 41 |
| IOL21B | I/O | 6 | DQS6/DQ6 | | Comp_of_IOL21A | True | none | 42 |
| IOL25A | I/O | 6 | DQ6 | | True_of_IOL25B | True | x16 | 43 |
| IOL27B | I/O | 6 | DQ6 | | Comp_of_IOL27A | True | none | 47 |
| IOL31A | I/O | 6 | none | | True_of_IOL31B | True | x16 | 48 |
| IOL31B | I/O | 6 | none | | Comp_of_IOL31A | True | none | 49 |

| 注! | | | | | | | | |
|-------------------------------------|-----|------|----------|------------------------------|----------------|------|------|----------------------|
| [1] EV版本封装。 | | | | | | | | |
| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | LQ100 ^[1] |
| IOL3A/GCLKT_14A/LPLL0_T_IN2 | I/O | 6 | DQ7 | GCLKT_14A/LPLL0_T_IN2 | True_of_IOL3B | True | x16 | 28 |
| IOL3B/GCLKC_14/LPLL0_C_FB0 | I/O | 6 | DQ7 | GCLKC_14/LPLL0_C_FB0 | Comp_of_IOL3A | True | none | 27 |
| IOL5A/GCLKT_13/LPLL0_T_IN1 | I/O | 6 | DQ7 | GCLKT_13/LPLL0_T_IN1 | True_of_IOL5B | True | x16 | 30 |
| IOL5B/GCLKC_13/LPLL0_C_FB1 | I/O | 6 | DQ7 | GCLKC_13/LPLL0_C_FB1 | Comp_of_IOL5A | True | none | 29 |
| IOL7A | I/O | 6 | DQ7 | | True_of_IOL7B | True | x16 | 31 |
| IOL9A | I/O | 6 | DQS7/DQ7 | | True_of_IOL9B | True | x16 | 34 |
| IOL9B | I/O | 6 | DQS7/DQ7 | | Comp_of_IOL9A | True | none | 32 |
| BANK5 True LVDS Pair | | | | | | | | |
| IOB12A/GCLKT_10B/D07/SSPI_WPN/SSI2 | I/O | 5 | none | GCLKT_10B/D07/SSPI_WPN/SSI2 | True_of_IOB12B | True | x16 | 52 |
| IOB12B/GCLKC_10B/RDWR_B/LPLL1_C_IN1 | I/O | 5 | none | GCLKC_10B/RDWR_B/LPLL1_C_IN1 | Comp_of_IOB12A | True | none | 51 |
| IOB26A/GCLKT_12 | I/O | 5 | none | GCLKT_12 | True_of_IOB26B | True | x16 | 54 |
| IOB26B/GCLKC_12 | I/O | 5 | none | GCLKC_12 | Comp_of_IOB26A | True | none | 53 |
| BANK4 True LVDS Pair | | | | | | | | |
| IOB33A/GCLKT_9/D13/BPLL_T_IN1 | I/O | 4 | none | GCLKT_9/D13/BPLL_T_IN1 | True_of_IOB33B | True | x16 | 57 |
| IOB33B/GCLKC_9/EMCCLK | I/O | 4 | none | GCLKC_9/EMCCLK | Comp_of_IOB33A | True | none | 58 |
| IOB37A/READY | I/O | 4 | none | READY | True_of_IOB37B | True | x16 | 59 |
| IOB37B/MCS_N/CSO_B | I/O | 4 | none | MCS_N/CSO_B | Comp_of_IOB37A | True | none | 60 |
| IOB52A/MODE1 | I/O | 4 | none | MODE1 | True_of_IOB52B | True | x16 | 61 |
| IOB52B/D10 | I/O | 4 | none | D10 | Comp_of_IOB52A | True | none | 62 |
| IOB54A/GCLKT_11B/D01/MI2 | I/O | 4 | none | GCLKT_11B/D01/MI2 | True_of_IOB54B | True | x16 | 63 |
| IOB54B/GCLKC_11B/D02/BPLL_C_FB1/MI3 | I/O | 4 | none | GCLKC_11B/D02/BPLL_C_FB1/MI3 | Comp_of_IOB54A | True | none | 64 |
| IOB58A/D00/MISO/MI1/DIN | I/O | 4 | none | D00/MISO/MI1/DIN | True_of_IOB58B | True | x16 | 65 |
| IOB58B/MOSI/CSI_B/MI0 | I/O | 4 | none | MOSI/CSI_B/MI0 | Comp_of_IOB58A | True | none | 66 |

| 注！ | | | | | | | | |
|-----------------------------|-----|------|----------|---------------------|----------------|------|------|----------------------|
| [1] EV版本封装。 | | | | | | | | |
| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | LQ100 ^[1] |
| IOB62A/CCLK | I/O | 4 | none | CCLK | True_of_IOB62B | True | x16 | 67 |
| IOB62B/MODE0 | I/O | 4 | none | MODE0 | Comp_of_IOB62A | True | none | 68 |
| BANK3 True LVDS Pair | | | | | | | | |
| IOB65A | I/O | 3 | none | | True_of_IOB65B | True | x16 | 70 |
| IOB65B/DOOUT | I/O | 3 | none | DOOUT | Comp_of_IOB65A | True | none | 71 |
| IOB91A/GCLKT_6A | I/O | 3 | DQ4 | GCLKT_6A | True_of_IOB91B | True | x16 | 74 |
| IOB91B/GCLKC_6A | I/O | 3 | DQ4 | GCLKC_6A | Comp_of_IOB91A | True | none | 75 |
| BANK2 True LVDS Pair | | | | | | | | |
| IOR20A | I/O | 2 | DQ3 | | True_of_IOR20B | True | x16 | 91 |
| IOR20B | I/O | 2 | DQ3 | | Comp_of_IOR20A | True | none | 90 |
| IOR22A | I/O | 2 | DQ3 | | True_of_IOR22B | True | x16 | 89 |
| IOR22B | I/O | 2 | DQ3 | | Comp_of_IOR22A | True | none | 88 |
| IOR24A | I/O | 2 | DQ3 | | True_of_IOR24B | True | x16 | 87 |
| IOR24B | I/O | 2 | DQ3 | | Comp_of_IOR24A | True | none | 86 |
| IOR26A | I/O | 2 | DQS3/DQ3 | | True_of_IOR26B | True | x16 | 85 |
| IOR26B | I/O | 2 | DQS3/DQ3 | | Comp_of_IOR26A | True | none | 84 |
| IOR29A | I/O | 2 | DQ3 | | True_of_IOR29B | True | x16 | 83 |
| IOR29B | I/O | 2 | DQ3 | | Comp_of_IOR29A | True | none | 82 |
| IOR31A/GCLKT_4/RPLL1_T_IN0 | I/O | 2 | DQ3 | GCLKT_4/RPLL1_T_IN0 | True_of_IOR31B | True | x16 | 81 |
| IOR31B/GCLKC_4/RPLL1_C_FB1 | I/O | 2 | DQ3 | GCLKC_4/RPLL1_C_FB1 | Comp_of_IOR31A | True | none | 78 |
| IOR33A/GCLKT_5/RPLL1_T_IN1 | I/O | 2 | none | GCLKT_5/RPLL1_T_IN1 | True_of_IOR33B | True | x16 | 77 |
| IOR33B/GCLKC_5/RPLL1_C_FB0 | I/O | 2 | none | GCLKC_5/RPLL1_C_FB0 | Comp_of_IOR33A | True | none | 76 |
| IOR7A | I/O | 2 | DQ2 | | True_of_IOR7B | True | x16 | 95 |
| IOR7B | I/O | 2 | DQ2 | | Comp_of_IOR7A | True | none | 94 |

| 注！ | | | | | | | | |
|-----------------------------|-----|------|------------|---------------------|----------------|------|------|----------------------|
| [1] EV版本封装。 | | | | | | | | |
| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | LQ100 ^[1] |
| BANK1 True LVDS Pair | | | | | | | | |
| IOT63A/GCLKT_3/RPLL0_T_IN0 | I/O | 1 | DQ0 | GCLKT_3/RPLL0_T_IN0 | True_of_IOT63B | True | x16 | 10 |
| IOT63B/GCLKC_3 | I/O | 1 | DQ0 | GCLKC_3 | Comp_of_IOT63A | True | none | 9 |
| IOT74A | I/O | 1 | DQ1/DQS_01 | | True_of_IOT74B | True | x16 | 8 |
| IOT74B | I/O | 1 | DQ1/DQS_01 | | Comp_of_IOT74A | True | none | 7 |
| IOT80A | I/O | 1 | DQS1/DQ1 | | True_of_IOT80B | True | x16 | 4 |
| IOT80B | I/O | 1 | DQS1/DQ1 | | Comp_of_IOT80A | True | none | 3 |
| IOT91A/RPLL0_T_IN1 | I/O | 1 | none | RPLL0_T_IN1 | True_of_IOT91B | True | x16 | 2 |
| IOT91B/RPLL0_C_FB0 | I/O | 1 | none | RPLL0_C_FB0 | Comp_of_IOT91A | True | none | 1 |

| 注！ [1] EV版本封装。 | | | | | | | | |
|-----------------------------|-----|------|------|----------------------|----------------|------|------|-----------------------|
| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | PG256S ^[2] |
| BANK7 True LVDS Pair | | | | | | | | |
| IOT11A | I/O | 7 | none | | True_of_IOT11B | True | x16 | F4 |
| IOT11B | I/O | 7 | none | | Comp_of_IOT11A | True | none | F3 |
| IOT13A | I/O | 7 | none | | True_of_IOT13B | True | x16 | E2 |
| IOT13B | I/O | 7 | none | | Comp_of_IOT13A | True | none | E1 |
| IOT15A | I/O | 7 | none | | True_of_IOT15B | True | x16 | F6 |
| IOT15B | I/O | 7 | none | | Comp_of_IOT15A | True | none | F5 |
| IOT17A | I/O | 7 | none | | True_of_IOT17B | True | x16 | E4 |
| IOT17B | I/O | 7 | none | | Comp_of_IOT17A | True | none | E3 |
| IOT19A | I/O | 7 | none | | True_of_IOT19B | True | x16 | D3 |
| IOT19B | I/O | 7 | none | | Comp_of_IOT19A | True | none | D1 |
| IOT1A/GCLKT_15/LPLL0_T_IN0 | I/O | 7 | none | GCLKT_15/LPLL0_T_IN0 | True_of_IOT1B | True | x16 | H4 |
| IOT1B/GCLKC_15 | I/O | 7 | none | GCLKC_15 | Comp_of_IOT1A | True | none | H3 |
| IOT21A | I/O | 7 | none | | True_of_IOT21B | True | x16 | C1 |
| IOT21B | I/O | 7 | none | | Comp_of_IOT21A | True | none | B1 |
| IOT23A | I/O | 7 | none | | True_of_IOT23B | True | x16 | C3 |
| IOT23B | I/O | 7 | none | | Comp_of_IOT23A | True | none | C2 |
| IOT25A | I/O | 7 | none | | True_of_IOT25B | True | x16 | B2 |
| IOT25B | I/O | 7 | none | | Comp_of_IOT25A | True | none | A2 |
| IOT27A | I/O | 7 | none | | True_of_IOT27B | True | x16 | B3 |
| IOT27B | I/O | 7 | none | | Comp_of_IOT27A | True | none | A3 |
| IOT3A/GCLKT_16 | I/O | 7 | none | GCLKT_16 | True_of_IOT3B | True | x16 | J6 |
| IOT3B/GCLKC_16 | I/O | 7 | none | GCLKC_16 | Comp_of_IOT3A | True | none | H5 |
| IOT5A | I/O | 7 | none | | True_of_IOT5B | True | x16 | L4 |
| IOT5B | I/O | 7 | none | | Comp_of_IOT5A | True | none | L5 |
| IOT7A | I/O | 7 | none | | True_of_IOT7B | True | x16 | K5 |

| 注！ | | | | | | | | |
|-----------------------------|-----|------|------------|-----------------------|----------------|------|------|-----------------------|
| [1] EV版本封装。 | | | | | | | | |
| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | PG256S ^[2] |
| IOT7B | I/O | 7 | none | | Comp_of_IOT7A | True | none | K6 |
| IOT9A | I/O | 7 | none | | True_of_IOT9B | True | x16 | G6 |
| IOT9B | I/O | 7 | none | | Comp_of_IOT9A | True | none | G5 |
| BANK6 True LVDS Pair | | | | | | | | |
| IOL12A | I/O | 6 | DQ7 | | True_of_IOL12B | True | x16 | J3 |
| IOL12B | I/O | 6 | DQ7 | | Comp_of_IOL12A | True | none | J1 |
| IOL14A/LPLL1_T_IN0 | I/O | 6 | DQ7 | LPLL1_T_IN0 | True_of_IOL14B | True | x16 | K2 |
| IOL14B | I/O | 6 | DQ7 | | Comp_of_IOL14A | True | none | K1 |
| IOL16A | I/O | 6 | DQ6/DQS_67 | | True_of_IOL16B | True | x16 | L3 |
| IOL16B | I/O | 6 | DQ6/DQS_67 | | Comp_of_IOL16A | True | none | L1 |
| IOL18A | I/O | 6 | DQ6 | | True_of_IOL18B | True | x16 | M2 |
| IOL18B | I/O | 6 | DQ6 | | Comp_of_IOL18A | True | none | M1 |
| IOL21A | I/O | 6 | DQS6/DQ6 | | True_of_IOL21B | True | x16 | N3 |
| IOL21B | I/O | 6 | DQS6/DQ6 | | Comp_of_IOL21A | True | none | N1 |
| IOL23A | I/O | 6 | DQ6 | | True_of_IOL23B | True | x16 | P2 |
| IOL23B | I/O | 6 | DQ6 | | Comp_of_IOL23A | True | none | P1 |
| IOL25A | I/O | 6 | DQ6 | | True_of_IOL25B | True | x16 | R2 |
| IOL25B | I/O | 6 | DQ6 | | Comp_of_IOL25A | True | none | R1 |
| IOL29A | I/O | 6 | none | | True_of_IOL29B | True | x16 | M4 |
| IOL29B | I/O | 6 | none | | Comp_of_IOL29A | True | none | M3 |
| IOL31A | I/O | 6 | none | | True_of_IOL31B | True | x16 | M5 |
| IOL31B | I/O | 6 | none | | Comp_of_IOL31A | True | none | N4 |
| IOL3A/GCLKT_14A/LPLL0_T_IN2 | I/O | 6 | DQ7 | GCLKT_14A/LPLL0_T_IN2 | True_of_IOL3B | True | x16 | K3 |
| IOL3B/GCLKC_14/LPLL0_C_FB0 | I/O | 6 | DQ7 | GCLKC_14/LPLL0_C_FB0 | Comp_of_IOL3A | True | none | J4 |
| IOL5A/GCLKT_13/LPLL0_T_IN1 | I/O | 6 | DQ7 | GCLKT_13/LPLL0_T_IN1 | True_of_IOL5B | True | x16 | F2 |
| IOL5B/GCLKC_13/LPLL0_C_FB1 | I/O | 6 | DQ7 | GCLKC_13/LPLL0_C_FB1 | Comp_of_IOL5A | True | none | F1 |

| 注! | | | | | | | | |
|-------------------------------------|-----|------|----------|------------------------------|----------------|------|------|-----------------------|
| [1] EV版本封装。 | | | | | | | | |
| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | PG256S ^[2] |
| IOL7A | I/O | 6 | DQ7 | | True_of_IOL7B | True | x16 | G3 |
| IOL7B | I/O | 6 | DQ7 | | Comp_of_IOL7A | True | none | G1 |
| IOL9A | I/O | 6 | DQS7/DQ7 | | True_of_IOL9B | True | x16 | H2 |
| IOL9B | I/O | 6 | DQS7/DQ7 | | Comp_of_IOL9A | True | none | H1 |
| BANK5 True LVDS Pair | | | | | | | | |
| IOB10A/D03/SSPI_CN/SSI0 | I/O | 5 | none | D03/SSPI_CS_N/SSI0 | True_of_IOB10B | True | x16 | N5 |
| IOB10B/D04/SI | I/O | 5 | none | D04/SI | Comp_of_IOB10A | True | none | P5 |
| IOB12A/GCLKT_10B/D07/SSPI_WP/SSPI2 | I/O | 5 | none | GCLKT_10B/D07/SSPI_WP/SSPI2 | True_of_IOB12B | True | x16 | R5 |
| IOB12B/GCLKC_10B/RDWR_B/LPLL1_C_IN1 | I/O | 5 | none | GCLKC_10B/RDWR_B/LPLL1_C_IN1 | Comp_of_IOB12A | True | none | T5 |
| IOB14A/SSPI_CLK | I/O | 5 | none | SSPI_CLK | True_of_IOB14B | True | x16 | P6 |
| IOB14B/CLKHOLD_N/SSI3 | I/O | 5 | none | CLKHOLD_N/SSI3 | Comp_of_IOB14A | True | none | T6 |
| IOB26A/GCLKT_12 | I/O | 5 | none | GCLKT_12 | True_of_IOB26B | True | x16 | R7 |
| IOB26B/GCLKC_12 | I/O | 5 | none | GCLKC_12 | Comp_of_IOB26A | True | none | T7 |
| IOB2A | I/O | 5 | none | | True_of_IOB2B | True | x16 | P4 |
| IOB2B | I/O | 5 | none | | Comp_of_IOB2A | True | none | T4 |
| IOB4A/D08/SDA | I/O | 5 | none | D08/SDA | True_of_IOB4B | True | x16 | M6 |
| IOB4B/D09/SCL/LPLL1_C_FB0 | I/O | 5 | none | D09/SCL/LPLL1_C_FB0 | Comp_of_IOB4A | True | none | N6 |
| IOB8A/D05/SO/SSI1 | I/O | 5 | none | D05/SO/SSI1 | True_of_IOB8B | True | x16 | L8 |
| IOB8B/D06 | I/O | 5 | none | D06 | Comp_of_IOB8A | True | none | L7 |
| BANK4 True LVDS Pair | | | | | | | | |
| IOB29A/GCLKT_11A | I/O | 4 | none | GCLKT_11A | True_of_IOB29B | True | x16 | M9 |
| IOB29B/GCLKC_11A | I/O | 4 | none | GCLKC_11A | Comp_of_IOB29A | True | none | N8 |
| IOB31A/GCLKT_10A/D14 | I/O | 4 | none | GCLKT_10A/D14 | True_of_IOB31B | True | x16 | P7 |
| IOB31B/GCLKC_10A/D15/BPLL_C_FB0 | I/O | 4 | none | GCLKC_10A/D15/BPLL_C_FB0 | Comp_of_IOB31A | True | none | M7 |

| 注！ | | | | | | | | |
|-------------------------------------|-----|------|------|------------------------------|----------------|------|------|-----------------------|
| [1] EV版本封装。 | | | | | | | | |
| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | PG256S ^[2] |
| IOB33A/GCLKT_9/D13/BPLL_T_IN1 | I/O | 4 | none | GCLKT_9/D13/BPLL_T_IN1 | True_of_IOB33B | True | x16 | P8 |
| IOB33B/GCLKC_9/EMCCLK | I/O | 4 | none | GCLKC_9/EMCCLK | Comp_of_IOB33A | True | none | T8 |
| IOB35A/GCLKT_8 | I/O | 4 | none | GCLKT_8 | True_of_IOB35B | True | x16 | R9 |
| IOB35B/GCLKC_8 | I/O | 4 | none | GCLKC_8 | Comp_of_IOB35A | True | none | T9 |
| IOB37A/READY | I/O | 4 | none | READY | True_of_IOB37B | True | x16 | R3 |
| IOB37B/MCS_N/CSO_B | I/O | 4 | none | MCS_N/CSO_B | Comp_of_IOB37A | True | none | T3 |
| IOB45A | I/O | 4 | none | | True_of_IOB45B | True | x16 | L10 |
| IOB45B | I/O | 4 | none | | Comp_of_IOB45A | True | none | M10 |
| IOB50A/D11 | I/O | 4 | none | D11 | True_of_IOB50B | True | x16 | N9 |
| IOB50B/D12 | I/O | 4 | none | D12 | Comp_of_IOB50A | True | none | P9 |
| IOB52A/MODE1 | I/O | 4 | none | MODE1 | True_of_IOB52B | True | x16 | N11 |
| IOB52B/D10 | I/O | 4 | none | D10 | Comp_of_IOB52A | True | none | P11 |
| IOB54A/GCLKT_11B/D01/MI2 | I/O | 4 | none | GCLKT_11B/D01/MI2 | True_of_IOB54B | True | x16 | N12 |
| IOB54B/GCLKC_11B/D02/BPLL_C_FB1/MI3 | I/O | 4 | none | GCLKC_11B/D02/BPLL_C_FB1/MI3 | Comp_of_IOB54A | True | none | P12 |
| IOB56A | I/O | 4 | none | | True_of_IOB56B | True | x16 | L11 |
| IOB58A/D00/MISO/MI1/DIN | I/O | 4 | none | D00/MISO/MI1/DIN | True_of_IOB58B | True | x16 | P10 |
| IOB58B/MOSI/CSI_B/MI0 | I/O | 4 | none | MOSI/CSI_B/MI0 | Comp_of_IOB58A | True | none | T10 |
| IOB60A | I/O | 4 | none | | True_of_IOB60B | True | x16 | M12 |
| IOB60B | I/O | 4 | none | | Comp_of_IOB60A | True | none | M11 |
| IOB62A/CCLK | I/O | 4 | none | CCLK | True_of_IOB62B | True | x16 | R11 |
| IOB62B/MODE0 | I/O | 4 | none | MODE0 | Comp_of_IOB62A | True | none | T11 |

| 注！ | | | | | | | | |
|-----------------------------|-----|------|------------|--------------------|----------------|------|------|-----------------------|
| [1] EV版本封装。 | | | | | | | | |
| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | PG256S ^[2] |
| BANK3 True LVDS Pair | | | | | | | | |
| IOB65A | I/O | 3 | none | | True_of_IOB65B | True | x16 | M13 |
| IOB65B/DOUT | I/O | 3 | none | DOUT | Comp_of_IOB65A | True | none | M14 |
| IOB69A | I/O | 3 | DQ5 | | True_of_IOB69B | True | x16 | L12 |
| IOB69B | I/O | 3 | DQ5 | | Comp_of_IOB69A | True | none | L13 |
| IOB71A | I/O | 3 | DQ5 | | True_of_IOB71B | True | x16 | R12 |
| IOB71B | I/O | 3 | DQ5 | | Comp_of_IOB71A | True | none | T12 |
| IOB73A | I/O | 3 | DQ5 | | True_of_IOB73B | True | x16 | T14 |
| IOB73B | I/O | 3 | DQ5 | | Comp_of_IOB73A | True | none | T13 |
| IOB75A/GCLKT_6B | I/O | 3 | DQS5/DQ5 | GCLKT_6B | True_of_IOB75B | True | x16 | R14 |
| IOB75B/GCLKC_6B | I/O | 3 | DQS5/DQ5 | GCLKC_6B | Comp_of_IOB75A | True | none | T15 |
| IOB77A | I/O | 3 | DQ5 | | True_of_IOB77B | True | x16 | R15 |
| IOB77B | I/O | 3 | DQ5 | | Comp_of_IOB77A | True | none | R16 |
| IOB79A | I/O | 3 | DQ5/DQS_45 | | True_of_IOB79B | True | x16 | P15 |
| IOB79B | I/O | 3 | DQ5/DQS_45 | | Comp_of_IOB79A | True | none | P16 |
| IOB81A | I/O | 3 | DQ4 | | True_of_IOB81B | True | x16 | L14 |
| IOB81B | I/O | 3 | DQ4 | | Comp_of_IOB81A | True | none | L16 |
| IOB83A | I/O | 3 | DQ4 | | True_of_IOB83B | True | x16 | M15 |
| IOB83B | I/O | 3 | DQ4 | | Comp_of_IOB83A | True | none | M16 |
| IOB85A | I/O | 3 | DQS4/DQ4 | | True_of_IOB85B | True | x16 | N14 |
| IOB85B | I/O | 3 | DQS4/DQ4 | | Comp_of_IOB85A | True | none | N16 |
| IOB87A | I/O | 3 | DQ4 | | True_of_IOB87B | True | x16 | K15 |
| IOB87B | I/O | 3 | DQ4 | | Comp_of_IOB87A | True | none | K16 |
| IOB89A/GCLKT_7/BPLL_T_IN0 | I/O | 3 | DQ4 | GCLKT_7/BPLL_T_IN0 | True_of_IOB89B | True | x16 | J14 |
| IOB89B/GCLKC_7 | I/O | 3 | DQ4 | GCLKC_7 | Comp_of_IOB89A | True | none | J16 |
| IOB91A/GCLKT_6A | I/O | 3 | DQ4 | GCLKT_6A | True_of_IOB91B | True | x16 | K12 |

| 注！ | | | | | | | | |
|-----------------------------|-----|------|------------|---------------------|----------------|------|------|-----------------------|
| [1] EV版本封装。 | | | | | | | | |
| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | PG256S ^[2] |
| IOB91B/GCLKC_6A | I/O | 3 | DQ4 | GCLKC_6A | Comp_of_IOB91A | True | none | K11 |
| BANK2 True LVDS Pair | | | | | | | | |
| IOR12A | I/O | 2 | DQS2/DQ2 | | True_of_IOR12B | True | x16 | D14 |
| IOR12B | I/O | 2 | DQS2/DQ2 | | Comp_of_IOR12A | True | none | D16 |
| IOR14A | I/O | 2 | DQ2 | | True_of_IOR14B | True | x16 | F13 |
| IOR14B | I/O | 2 | DQ2 | | Comp_of_IOR14A | True | none | F14 |
| IOR16A | I/O | 2 | DQ2 | | True_of_IOR16B | True | x16 | C15 |
| IOR16B | I/O | 2 | DQ2 | | Comp_of_IOR16A | True | none | C16 |
| IOR18A | I/O | 2 | DQ2/DQS_23 | | True_of_IOR18B | True | x16 | E15 |
| IOR18B | I/O | 2 | DQ2/DQS_23 | | Comp_of_IOR18A | True | none | E16 |
| IOR20A | I/O | 2 | DQ3 | | True_of_IOR20B | True | x16 | F15 |
| IOR20B | I/O | 2 | DQ3 | | Comp_of_IOR20A | True | none | F16 |
| IOR22A | I/O | 2 | DQ3 | | True_of_IOR22B | True | x16 | G14 |
| IOR22B | I/O | 2 | DQ3 | | Comp_of_IOR22A | True | none | G16 |
| IOR24A | I/O | 2 | DQ3 | | True_of_IOR24B | True | x16 | H15 |
| IOR24B | I/O | 2 | DQ3 | | Comp_of_IOR24A | True | none | H16 |
| IOR26A | I/O | 2 | DQS3/DQ3 | | True_of_IOR26B | True | x16 | G12 |
| IOR26B | I/O | 2 | DQS3/DQ3 | | Comp_of_IOR26A | True | none | H11 |
| IOR29A | I/O | 2 | DQ3 | | True_of_IOR29B | True | x16 | H13 |
| IOR29B | I/O | 2 | DQ3 | | Comp_of_IOR29A | True | none | H14 |
| IOR31A/GCLKT_4/RPLL1_T_IN0 | I/O | 2 | DQ3 | GCLKT_4/RPLL1_T_IN0 | True_of_IOR31B | True | x16 | J11 |
| IOR31B/GCLKC_4/RPLL1_C_FB1 | I/O | 2 | DQ3 | GCLKC_4/RPLL1_C_FB1 | Comp_of_IOR31A | True | none | J12 |
| IOR33A/GCLKT_5/RPLL1_T_IN1 | I/O | 2 | none | GCLKT_5/RPLL1_T_IN1 | True_of_IOR33B | True | x16 | J13 |
| IOR33B/GCLKC_5/RPLL1_C_FB0 | I/O | 2 | none | GCLKC_5/RPLL1_C_FB0 | Comp_of_IOR33A | True | none | K14 |
| IOR5A | I/O | 2 | none | | True_of_IOR5B | True | x16 | E13 |
| IOR5B | I/O | 2 | none | | Comp_of_IOR5A | True | none | E12 |

| 注! | | | | | | | | |
|----------------------------|-----|------|----------|---------------------|----------------|------|------|-----------------------|
| [1] EV版本封装。 | | | | | | | | |
| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | PG256S ^[2] |
| IOR7A | I/O | 2 | DQ2 | | True_of_IOR7B | True | x16 | B15 |
| IOR7B | I/O | 2 | DQ2 | | Comp_of_IOR7A | True | none | B16 |
| IOR9A | I/O | 2 | DQ2 | | True_of_IOR9B | True | x16 | F12 |
| IOR9B | I/O | 2 | DQ2 | | Comp_of_IOR9A | True | none | G11 |
| BANK1 True LVDS Pair | | | | | | | | |
| IOT61A/GCLKT_2/TPLL_T_IN0 | I/O | 1 | DQS0/DQ0 | GCLKT_2/TPLL_T_IN0 | True_of_IOT61B | True | x16 | E7 |
| IOT61B/GCLKC_2 | I/O | 1 | DQS0/DQ0 | GCLKC_2 | Comp_of_IOT61A | True | none | E8 |
| IOT63A/GCLKT_3/RPLL0_T_IN0 | I/O | 1 | DQ0 | GCLKT_3/RPLL0_T_IN0 | True_of_IOT63B | True | x16 | E10 |
| IOT63B/GCLKC_3 | I/O | 1 | DQ0 | GCLKC_3 | Comp_of_IOT63A | True | none | C10 |
| IOT66A | I/O | 1 | DQ0 | | True_of_IOT66B | True | x16 | D8 |
| IOT66B | I/O | 1 | DQ0 | | Comp_of_IOT66A | True | none | C8 |
| IOT68A | I/O | 1 | DQ0 | | True_of_IOT68B | True | x16 | C11 |
| IOT68B | I/O | 1 | DQ0 | | Comp_of_IOT68A | True | none | A11 |
| IOT70A | I/O | 1 | DQ0 | | True_of_IOT70B | True | x16 | F9 |
| IOT70B | I/O | 1 | DQ0 | | Comp_of_IOT70A | True | none | D9 |
| IOT83A | I/O | 1 | DQ1 | | True_of_IOT83B | True | x16 | B12 |
| IOT83B | I/O | 1 | DQ1 | | Comp_of_IOT83A | True | none | A12 |
| IOT85A | I/O | 1 | DQ1 | | True_of_IOT85B | True | x16 | C13 |
| IOT85B | I/O | 1 | DQ1 | | Comp_of_IOT85A | True | none | A13 |
| IOT87A | I/O | 1 | none | | True_of_IOT87B | True | x16 | F10 |
| IOT87B | I/O | 1 | none | | Comp_of_IOT87A | True | none | E11 |
| IOT89A/RPLL0_T_FB1 | I/O | 1 | none | RPLL0_T_FB1 | True_of_IOT89B | True | x16 | B14 |
| IOT89B | I/O | 1 | none | | Comp_of_IOT89A | True | none | A14 |
| IOT91A/RPLL0_T_IN1 | I/O | 1 | none | RPLL0_T_IN1 | True_of_IOT91B | True | x16 | D11 |
| IOT91B/RPLL0_C_FB0 | I/O | 1 | none | RPLL0_C_FB0 | Comp_of_IOT91A | True | none | D12 |

| 注！ [1] EV版本封装。 | | | | | | | | |
|-----------------------------|-----|------|------|--------------------|----------------|------|------|-----------------------|
| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | PG256S ^[2] |
| BANK0 True LVDS Pair | | | | | | | | |
| IOT29A/PUDC_B | I/O | 0 | none | PUDC_B | True_of_IOT29B | True | x16 | C4 |
| IOT29B | I/O | 0 | none | | Comp_of_IOT29A | True | none | A4 |
| IOT31A | I/O | 0 | none | | True_of_IOT31B | True | x16 | B5 |
| IOT31B | I/O | 0 | none | | Comp_of_IOT31A | True | none | A5 |
| IOT33A | I/O | 0 | none | | True_of_IOT33B | True | x16 | D5 |
| IOT33B | I/O | 0 | none | | Comp_of_IOT33A | True | none | C5 |
| IOT35A | I/O | 0 | none | | True_of_IOT35B | True | x16 | B6 |
| IOT35B | I/O | 0 | none | | Comp_of_IOT35A | True | none | A6 |
| IOT37A | I/O | 0 | none | | True_of_IOT37B | True | x16 | F7 |
| IOT37B | I/O | 0 | none | | Comp_of_IOT37A | True | none | E6 |
| IOT39A | I/O | 0 | none | | True_of_IOT39B | True | x16 | C7 |
| IOT39B | I/O | 0 | none | | Comp_of_IOT39A | True | none | A7 |
| IOT41A | I/O | 0 | none | | True_of_IOT41B | True | x16 | D6 |
| IOT41B | I/O | 0 | none | | Comp_of_IOT41A | True | none | C6 |
| IOT54A | I/O | 0 | none | | True_of_IOT54B | True | x16 | B8 |
| IOT54B | I/O | 0 | none | | Comp_of_IOT54A | True | none | A8 |
| IOT56A/GCLKT_0/TPLL_T_IN1 | I/O | 0 | none | GCLKT_0/TPLL_T_IN1 | True_of_IOT56B | True | x16 | C9 |
| IOT56B/GCLKC_0/TPLL_C_FB1 | I/O | 0 | none | GCLKC_0/TPLL_C_FB1 | Comp_of_IOT56A | True | none | A9 |
| IOT58A/GCLKT_1/TPLL_T_IN2 | I/O | 0 | none | GCLKT_1/TPLL_T_IN2 | True_of_IOT58B | True | x16 | B10 |
| IOT58B/GCLKC_1/TPLL_C_FB0 | I/O | 0 | none | GCLKC_1/TPLL_C_FB0 | Comp_of_IOT58A | True | none | A10 |

| 注! | | | | | | | | |
|-----------------------------|-----|------|------------|----------------------|----------------|------|------|-----------------------|
| [1] EV版本封装。 | | | | | | | | |
| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | UG256C ^[1] |
| BANK7 True LVDS Pair | | | | | | | | |
| IOT13A | I/O | 7 | none | | True_of_IOT13B | True | x16 | D15 |
| IOT13B | I/O | 7 | none | | Comp_of_IOT13A | True | none | D16 |
| IOT19A/EMCCLK | I/O | 7 | none | EMCCLK | True_of_IOT19B | True | x16 | F15 |
| IOT19B/CSO_B | I/O | 7 | none | CSO_B | Comp_of_IOT19A | True | none | F16 |
| IOT1A/GCLKT_15/LPLL0_T_IN0 | I/O | 7 | none | GCLKT_15/LPLL0_T_IN0 | True_of_IOT1B | True | x16 | F14 |
| IOT1B/GCLKC_15 | I/O | 7 | none | GCLKC_15 | Comp_of_IOT1A | True | none | B16 |
| IOT21A | I/O | 7 | none | | True_of_IOT21B | True | x16 | G11 |
| IOT21B | I/O | 7 | none | | Comp_of_IOT21A | True | none | F13 |
| IOT23A | I/O | 7 | none | | True_of_IOT23B | True | x16 | G15 |
| IOT23B | I/O | 7 | none | | Comp_of_IOT23A | True | none | G16 |
| IOT25A/MODE0 | I/O | 7 | none | MODE0 | True_of_IOT25B | True | x16 | H13 |
| IOT25B/MODE1 | I/O | 7 | none | MODE1 | Comp_of_IOT25A | True | none | H12 |
| IOT27A/MODE2 | I/O | 7 | none | MODE2 | True_of_IOT27B | True | x16 | G12 |
| IOT27B/DONE | I/O | 7 | none | DONE | Comp_of_IOT27A | True | none | H14 |
| IOT3A/GCLKT_16 | I/O | 7 | none | GCLKT_16 | True_of_IOT3B | True | x16 | E15 |
| IOT3B/GCLKC_16 | I/O | 7 | none | GCLKC_16 | Comp_of_IOT3A | True | none | E16 |
| IOT9A | I/O | 7 | none | | True_of_IOT9B | True | x16 | C15 |
| IOT9B | I/O | 7 | none | | Comp_of_IOT9A | True | none | C16 |
| BANK6 True LVDS Pair | | | | | | | | |
| IOL12A | I/O | 6 | DQ7 | | True_of_IOL12B | True | x16 | E11 |
| IOL12B | I/O | 6 | DQ7 | | Comp_of_IOL12A | True | none | E10 |
| IOL14A/LPLL1_T_IN0 | I/O | 6 | DQ7 | LPLL1_T_IN0 | True_of_IOL14B | True | x16 | F9 |
| IOL14B | I/O | 6 | DQ7 | | Comp_of_IOL14A | True | none | F10 |
| IOL16A | I/O | 6 | DQ6/DQS_67 | | True_of_IOL16B | True | x16 | B13 |
| IOL16B | I/O | 6 | DQ6/DQS_67 | | Comp_of_IOL16A | True | none | A13 |
| IOL18A | I/O | 6 | DQ6 | | True_of_IOL18B | True | x16 | B12 |
| IOL18B | I/O | 6 | DQ6 | | Comp_of_IOL18A | True | none | A12 |

| 注! | | | | | | | | |
|---------------------------------------|-----|------|----------|--------------------------------|----------------|------|------|-----------------------|
| [1] EV版本封装。 | | | | | | | | |
| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | UG256C ^[1] |
| IOL21A | I/O | 6 | DQS6/DQ6 | | True_of_IOL21B | True | x16 | C11 |
| IOL21B | I/O | 6 | DQS6/DQ6 | | Comp_of_IOL21A | True | none | E9 |
| IOL23A | I/O | 6 | DQ6 | | True_of_IOL23B | True | x16 | B11 |
| IOL23B | I/O | 6 | DQ6 | | Comp_of_IOL23A | True | none | A11 |
| IOL25A | I/O | 6 | DQ6 | | True_of_IOL25B | True | x16 | B10 |
| IOL25B | I/O | 6 | DQ6 | | Comp_of_IOL25A | True | none | A10 |
| IOL27A | I/O | 6 | DQ6 | | True_of_IOL27B | True | x16 | D9 |
| IOL27B | I/O | 6 | DQ6 | | Comp_of_IOL27A | True | none | C9 |
| IOL29A | I/O | 6 | none | | True_of_IOL29B | True | x16 | B9 |
| IOL29B | I/O | 6 | none | | Comp_of_IOL29A | True | none | A9 |
| IOL3A/GCLKT_14/LPLL0_T_IN2 | I/O | 6 | DQ7 | GCLKT_14/LPLL0_T_IN2 | True_of_IOL3B | True | x16 | D14 |
| IOL3B/GCLKC_14/LPLL0_C_FB0 | I/O | 6 | DQ7 | GCLKC_14/LPLL0_C_FB0 | Comp_of_IOL3A | True | none | C14 |
| IOL5A/GCLKT_13/LPLL0_T_IN1 | I/O | 6 | DQ7 | GCLKT_13/LPLL0_T_IN1 | True_of_IOL5B | True | x16 | D12 |
| IOL5B/GCLKC_13/LPLL0_C_FB1 | I/O | 6 | DQ7 | GCLKC_13/LPLL0_C_FB1 | Comp_of_IOL5A | True | none | D11 |
| IOL7A | I/O | 6 | DQ7 | | True_of_IOL7B | True | x16 | A15 |
| IOL7B | I/O | 6 | DQ7 | | Comp_of_IOL7A | True | none | F11 |
| IOL9A | I/O | 6 | DQS7/DQ7 | | True_of_IOL9B | True | x16 | B14 |
| IOL9B | I/O | 6 | DQS7/DQ7 | | Comp_of_IOL9A | True | none | A14 |
| BANK5 True LVDS Pair | | | | | | | | |
| IOB10A/D06/SSPI_CS_N | I/O | 5 | none | D06/SSPI_CS_N | True_of_IOB10B | True | x16 | E6 |
| IOB10B/D05/SI/SSI0 | I/O | 5 | none | D05/SI/SSI0 | Comp_of_IOB10A | True | none | E7 |
| IOB12A/GCLKT_10B/D15/SSPI_WP/SSI2 | I/O | 5 | none | GCLKT_10B/D15/SSPI_WP/SSI2 | True_of_IOB12B | True | x16 | C6 |
| IOB12B/GCLKC_10B/D07/DOUT/LPLL1_C_IN1 | I/O | 5 | none | GCLKC_10B/D07/DOUT/LPLL1_C_IN1 | Comp_of_IOB12A | True | none | A5 |
| IOB14A/SSPI_CLK | I/O | 5 | none | SSPI_CLK | True_of_IOB14B | True | x16 | B6 |
| IOB14B/CLKHOLD_N/SSI3 | I/O | 5 | none | CLKHOLD_N/SSI3 | Comp_of_IOB14A | True | none | A6 |
| IOB16A | I/O | 5 | none | | True_of_IOB16B | True | x16 | D6 |

注!
[1] EV版本封装。

| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | UG256C ^[1] |
|--|-----|------|------|-----------------------------------|----------------|------|------|-----------------------|
| IOB16B | I/O | 5 | none | | Comp_of_IOB16A | True | none | D5 |
| IOB18A | I/O | 5 | none | | True_of_IOB18B | True | x16 | B4 |
| IOB18B | I/O | 5 | none | | Comp_of_IOB18A | True | none | A4 |
| IOB20A | I/O | 5 | none | | True_of_IOB20B | True | x16 | F7 |
| IOB20B | I/O | 5 | none | | Comp_of_IOB20A | True | none | F6 |
| IOB22A | I/O | 5 | none | | True_of_IOB22B | True | x16 | B5 |
| IOB22B | I/O | 5 | none | | Comp_of_IOB22A | True | none | A2 |
| IOB24A | I/O | 5 | none | | True_of_IOB24B | True | x16 | D3 |
| IOB24B | I/O | 5 | none | | Comp_of_IOB24A | True | none | C3 |
| IOB26A/GCLKT_12 | I/O | 5 | none | GCLKT_12 | True_of_IOB26B | True | x16 | B3 |
| IOB26B/GCLKC_12 | I/O | 5 | none | GCLKC_12 | Comp_of_IOB26A | True | none | A3 |
| IOB2A | I/O | 5 | none | | True_of_IOB2B | True | x16 | B8 |
| IOB2B | I/O | 5 | none | | Comp_of_IOB2A | True | none | A8 |
| IOB4A/D04/SDA | I/O | 5 | none | D04/SDA | True_of_IOB4B | True | x16 | B7 |
| IOB4B/D09/SCL/LPLL1_C_FB0 | I/O | 5 | none | D09/SCL/LPLL1_C_FB0 | Comp_of_IOB4A | True | none | A7 |
| IOB6A | I/O | 5 | none | | True_of_IOB6B | True | x16 | C8 |
| IOB6B | I/O | 5 | none | | Comp_of_IOB6A | True | none | D8 |
| IOB8A/D03/SO/SSI1 | I/O | 5 | none | D03/SO/SSI1 | True_of_IOB8B | True | x16 | F8 |
| IOB8B/D02 | I/O | 5 | none | D02 | Comp_of_IOB8A | True | none | E8 |
| BANK4 True LVDS Pair | | | | | | | | |
| IOB29A/GCLKT_11A | I/O | 4 | none | GCLKT_11A | True_of_IOB29B | True | x16 | B1 |
| IOB29B/GCLKC_11A | I/O | 4 | none | GCLKC_11A | Comp_of_IOB29A | True | none | D4 |
| IOB31A/GCLKT_10A/D14 | I/O | 4 | none | GCLKT_10A/D14 | True_of_IOB31B | True | x16 | C2 |
| IOB31B/GCLKC_10A/D01/MOSI/MIO/BPLL_C_FB0 | I/O | 4 | none | GCLKC_10A/D01/MOSI/MIO/BPLL_C_FB0 | Comp_of_IOB31A | True | none | C1 |
| IOB33A/GCLKT_9/D13/MCS_N/BPLL_T_IN1 | I/O | 4 | none | GCLKT_9/D13/MCS_N/BPLL_T_IN1 | True_of_IOB33B | True | x16 | D2 |
| IOB33B/GCLKC_9 | I/O | 4 | none | GCLKC_9 | Comp_of_IOB33A | True | none | D1 |

| 注! | | | | | | | | |
|---------------------------------|-----|------|----------|--------------------------|----------------|------|------|-----------------------|
| [1] EV版本封装。 | | | | | | | | |
| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | UG256C ^[1] |
| IOB35A/GCLKT_8 | I/O | 4 | none | GCLKT_8 | True_of_IOB35B | True | x16 | E5 |
| IOB35B/GCLKC_8 | I/O | 4 | none | GCLKC_8 | Comp_of_IOB35A | True | none | E1 |
| IOB37A/D08 | I/O | 4 | none | D08 | True_of_IOB37B | True | x16 | G5 |
| IOB37B | I/O | 4 | none | | Comp_of_IOB37A | True | none | F5 |
| IOB45A | I/O | 4 | none | | True_of_IOB45B | True | x16 | F3 |
| IOB50A/D11 | I/O | 4 | none | D11 | True_of_IOB50B | True | x16 | F2 |
| IOB50B/D12 | I/O | 4 | none | D12 | Comp_of_IOB50A | True | none | F1 |
| IOB52A/RECONFIG_N | I/O | 4 | none | RECONFIG_N | True_of_IOB52B | True | x16 | H5 |
| IOB52B | I/O | 4 | none | | Comp_of_IOB52A | True | none | |
| IOB54A/GCLKT_11B/D10/MI2 | I/O | 4 | none | GCLKT_11B/D10/MI2 | True_of_IOB54B | True | x16 | G2 |
| IOB54B/GCLKC_11B/MI3/BPLL_C_FB1 | I/O | 4 | none | GCLKC_11B/MI3/BPLL_C_FB1 | Comp_of_IOB54A | True | none | G1 |
| IOB58A/D00/MISO/MI1/DIN | I/O | 4 | none | D00/MISO/MI1/DIN | True_of_IOB58B | True | x16 | H2 |
| IOB62A/CCLK | I/O | 4 | none | CCLK | True_of_IOB62B | True | x16 | H1 |
| IOB62B/CSI_B | I/O | 4 | none | CSI_B | Comp_of_IOB62A | True | none | J3 |
| BANK3 True LVDS Pair | | | | | | | | |
| IOB65A | I/O | 3 | none | | True_of_IOB65B | True | x16 | J6 |
| IOB65B | I/O | 3 | none | | Comp_of_IOB65A | True | none | L3 |
| IOB69A | I/O | 3 | DQ5 | | True_of_IOB69B | True | x16 | J2 |
| IOB69B | I/O | 3 | DQ5 | | Comp_of_IOB69A | True | none | J1 |
| IOB71A | I/O | 3 | DQ5 | | True_of_IOB71B | True | x16 | K2 |
| IOB71B | I/O | 3 | DQ5 | | Comp_of_IOB71A | True | none | K1 |
| IOB73A | I/O | 3 | DQ5 | | True_of_IOB73B | True | x16 | K5 |
| IOB73B | I/O | 3 | DQ5 | | Comp_of_IOB73A | True | none | L4 |
| IOB75A/GCLKT_6B | I/O | 3 | DQS5/DQ5 | GCLKT_6B | True_of_IOB75B | True | x16 | L2 |
| IOB75B/GCLKC_6B | I/O | 3 | DQS5/DQ5 | GCLKC_6B | Comp_of_IOB75A | True | none | L1 |
| IOB77A | I/O | 3 | DQ5 | | True_of_IOB77B | True | x16 | N2 |
| IOB77B | I/O | 3 | DQ5 | | Comp_of_IOB77A | True | none | N1 |

| 注! | | | | | | | | |
|----------------------------|-----|------|------------|---------------------|----------------|------|------|-----------------------|
| [1] EV版本封装。 | | | | | | | | |
| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | UG256C ^[1] |
| IOB79A | I/O | 3 | DQ5/DQS_45 | | True_of_IOB79B | True | x16 | P2 |
| IOB79B | I/O | 3 | DQ5/DQS_45 | | Comp_of_IOB79A | True | none | P1 |
| IOB85B | I/O | 3 | DQS4/DQ4 | | Comp_of_IOB85A | True | none | R1 |
| IOB89A/GCLKT_7/BPLL_T_IN0 | I/O | 3 | DQ4 | GCLKT_7/BPLL_T_IN0 | True_of_IOB89B | True | x16 | M2 |
| IOB89B/GCLKC_7 | I/O | 3 | DQ4 | GCLKC_7 | Comp_of_IOB89A | True | none | M1 |
| IOB91A/GCLKT_6A | I/O | 3 | DQ4 | GCLKT_6A | True_of_IOB91B | True | x16 | K6 |
| IOB91B/GCLKC_6A | I/O | 3 | DQ4 | GCLKC_6A | Comp_of_IOB91A | True | none | L6 |
| BANK2 True LVDS Pair | | | | | | | | |
| IOR12A | I/O | 2 | DQS2/DQ2 | | True_of_IOR12B | True | x16 | R7 |
| IOR12B | I/O | 2 | DQS2/DQ2 | | Comp_of_IOR12A | True | none | T7 |
| IOR14A | I/O | 2 | DQ2 | | True_of_IOR14B | True | x16 | R6 |
| IOR14B | I/O | 2 | DQ2 | | Comp_of_IOR14A | True | none | T6 |
| IOR18A | I/O | 2 | DQ2/DQS_23 | | True_of_IOR18B | True | x16 | R5 |
| IOR18B | I/O | 2 | DQ2/DQS_23 | | Comp_of_IOR18A | True | none | T5 |
| IOR20A | I/O | 2 | DQ3 | | True_of_IOR20B | True | x16 | P6 |
| IOR20B | I/O | 2 | DQ3 | | Comp_of_IOR20A | True | none | M6 |
| IOR22A | I/O | 2 | DQ3 | | True_of_IOR22B | True | x16 | N5 |
| IOR22B | I/O | 2 | DQ3 | | Comp_of_IOR22A | True | none | N6 |
| IOR24A | I/O | 2 | DQ3 | | True_of_IOR24B | True | x16 | R3 |
| IOR24B | I/O | 2 | DQ3 | | Comp_of_IOR24A | True | none | T3 |
| IOR26A | I/O | 2 | DQS3/DQ3 | | True_of_IOR26B | True | x16 | M7 |
| IOR26B | I/O | 2 | DQS3/DQ3 | | Comp_of_IOR26A | True | none | K8 |
| IOR29A | I/O | 2 | DQ3 | | True_of_IOR29B | True | x16 | N3 |
| IOR29B | I/O | 2 | DQ3 | | Comp_of_IOR29A | True | none | P3 |
| IOR31A/GCLKT_4/RPLL1_T_IN0 | I/O | 2 | DQ3 | GCLKT_4/RPLL1_T_IN0 | True_of_IOR31B | True | x16 | R4 |
| IOR31B/GCLKC_4/RPLL1_C_FB1 | I/O | 2 | DQ3 | GCLKC_4/RPLL1_C_FB1 | Comp_of_IOR31A | True | none | T4 |
| IOR33A/GCLKT_5/RPLL1_T_IN1 | I/O | 2 | none | GCLKT_5/RPLL1_T_IN1 | True_of_IOR33B | True | x16 | T2 |
| IOR33B/GCLKC_5/RPLL1_C_FB0 | I/O | 2 | none | GCLKC_5/RPLL1_C_FB0 | Comp_of_IOR33A | True | none | L7 |

| 注! | | | | | | | | |
|----------------------------|-----|------|------------|---------------------|----------------|------|------|-----------------------|
| [1] EV版本封装。 | | | | | | | | |
| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | UG256C ^[1] |
| IOR5A | I/O | 2 | none | | True_of_IOR5B | True | x16 | R8 |
| IOR5B | I/O | 2 | none | | Comp_of_IOR5A | True | none | T8 |
| IOR7A | I/O | 2 | DQ2 | | True_of_IOR7B | True | x16 | N8 |
| IOR7B | I/O | 2 | DQ2 | | Comp_of_IOR7A | True | none | P8 |
| IOR9A | I/O | 2 | DQ2 | | True_of_IOR9B | True | x16 | L8 |
| IOR9B | I/O | 2 | DQ2 | | Comp_of_IOR9A | True | none | M8 |
| BANK1 True LVDS Pair | | | | | | | | |
| IOT61A/GCLKT_2/TPLL_T_IN0 | I/O | 1 | DQS0/DQ0 | GCLKT_2/TPLL_T_IN0 | True_of_IOT61B | True | x16 | T14 |
| IOT61B/GCLKC_2 | I/O | 1 | DQS0/DQ0 | GCLKC_2 | Comp_of_IOT61A | True | none | T15 |
| IOT63A/GCLKT_3/RPLL0_T_IN0 | I/O | 1 | DQ0 | GCLKT_3/RPLL0_T_IN0 | True_of_IOT63B | True | x16 | P14 |
| IOT63B/GCLKC_3 | I/O | 1 | DQ0 | GCLKC_3 | Comp_of_IOT63A | True | none | L11 |
| IOT66A | I/O | 1 | DQ0 | | True_of_IOT66B | True | x16 | R14 |
| IOT70A | I/O | 1 | DQ0 | | True_of_IOT70B | True | x16 | M11 |
| IOT70B | I/O | 1 | DQ0 | | Comp_of_IOT70A | True | none | N12 |
| IOT72A | I/O | 1 | DQ0 | | True_of_IOT72B | True | x16 | R13 |
| IOT72B | I/O | 1 | DQ0 | | Comp_of_IOT72A | True | none | T13 |
| IOT74A | I/O | 1 | DQ1/DQS_01 | | True_of_IOT74B | True | x16 | K10 |
| IOT74B | I/O | 1 | DQ1/DQS_01 | | Comp_of_IOT74A | True | none | L10 |
| IOT76A | I/O | 1 | DQ1 | | True_of_IOT76B | True | x16 | R12 |
| IOT76B | I/O | 1 | DQ1 | | Comp_of_IOT76A | True | none | T12 |
| IOT78A | I/O | 1 | DQ1 | | True_of_IOT78B | True | x16 | M10 |
| IOT78B | I/O | 1 | DQ1 | | Comp_of_IOT78A | True | none | N11 |
| IOT80A | I/O | 1 | DQS1/DQ1 | | True_of_IOT80B | True | x16 | R10 |
| IOT80B | I/O | 1 | DQS1/DQ1 | | Comp_of_IOT80A | True | none | T10 |
| IOT83A | I/O | 1 | DQ1 | | True_of_IOT83B | True | x16 | R11 |
| IOT83B | I/O | 1 | DQ1 | | Comp_of_IOT83A | True | none | T11 |
| IOT85A | I/O | 1 | DQ1 | | True_of_IOT85B | True | x16 | M9 |

注!
[1] EV版本封装。

| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | UG256C ^[1] |
|-----------------------------|-----|------|------|-------------|----------------|------|------|-----------------------|
| IOT85B | I/O | 1 | DQ1 | | Comp_of_IOT85A | True | none | N9 |
| IOT87A | I/O | 1 | none | | True_of_IOT87B | True | x16 | K9 |
| IOT87B | I/O | 1 | none | | Comp_of_IOT87A | True | none | L9 |
| IOT89A/RPLL0_T_FB1 | I/O | 1 | none | RPLL0_T_FB1 | True_of_IOT89B | True | x16 | P9 |
| IOT89B | I/O | 1 | none | | Comp_of_IOT89A | True | none | P11 |
| IOT91A/RPLL0_T_IN1 | I/O | 1 | none | RPLL0_T_IN1 | True_of_IOT91B | True | x16 | R9 |
| IOT91B/RPLL0_C_FB0 | I/O | 1 | none | RPLL0_C_FB0 | Comp_of_IOT91A | True | none | T9 |
| BANK0 True LVDS Pair | | | | | | | | |
| IOT31A | I/O | 0 | none | | True_of_IOT31B | True | x16 | J12 |
| IOT31B | I/O | 0 | none | | Comp_of_IOT31A | True | none | J14 |
| IOT33A | I/O | 0 | none | | True_of_IOT33B | True | x16 | J15 |
| IOT33B | I/O | 0 | none | | Comp_of_IOT33A | True | none | J16 |
| IOT37A | I/O | 0 | none | | True_of_IOT37B | True | x16 | L15 |
| IOT37B | I/O | 0 | none | | Comp_of_IOT37A | True | none | L16 |
| IOT39A | I/O | 0 | none | | True_of_IOT39B | True | x16 | J13 |
| IOT39B | I/O | 0 | none | | Comp_of_IOT39A | True | none | L13 |
| IOT41A | I/O | 0 | none | | True_of_IOT41B | True | x16 | L14 |
| IOT43A | I/O | 0 | none | | True_of_IOT43B | True | x16 | J11 |
| IOT43B | I/O | 0 | none | | Comp_of_IOT43A | True | none | K12 |
| IOT45A | I/O | 0 | none | | True_of_IOT45B | True | x16 | N15 |
| IOT45B | I/O | 0 | none | | Comp_of_IOT45A | True | none | N16 |
| IOT48A | I/O | 0 | none | | True_of_IOT48B | True | x16 | L12 |
| IOT48B | I/O | 0 | none | | Comp_of_IOT48A | True | none | K11 |
| IOT50A | I/O | 0 | none | | True_of_IOT50B | True | x16 | R16 |
| IOT50B | I/O | 0 | none | | Comp_of_IOT50A | True | none | P16 |
| IOT52A | I/O | 0 | none | | True_of_IOT52B | True | x16 | N14 |
| IOT52B | I/O | 0 | none | | Comp_of_IOT52A | True | none | P15 |

注!
 [1] EV版本封装。

| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | UG256C ^[1] |
|---------------------------|-----|------|------|--------------------|----------------|------|------|-----------------------|
| IOT54A | I/O | 0 | none | | True_of_IOT54B | True | x16 | N13 |
| IOT54B | I/O | 0 | none | | Comp_of_IOT54A | True | none | M12 |
| IOT56A/GCLKT_0/TPLL_T_IN1 | I/O | 0 | none | GCLKT_0/TPLL_T_IN1 | True_of_IOT56B | True | x16 | K15 |
| IOT56B/GCLKC_0/TPLL_C_FB1 | I/O | 0 | none | GCLKC_0/TPLL_C_FB1 | Comp_of_IOT56A | True | none | K16 |
| IOT58A/GCLKT_1/TPLL_T_IN2 | I/O | 0 | none | GCLKT_1/TPLL_T_IN2 | True_of_IOT58B | True | x16 | M15 |
| IOT58B/GCLKC_1/TPLL_C_FB0 | I/O | 0 | none | GCLKC_1/TPLL_C_FB0 | Comp_of_IOT58A | True | none | M16 |

| 注! | | | | | | | | |
|-----------------------------|-----|------|------------|----------------------|----------------|------|------|-----------------------|
| [1] EV版本封装。 | | | | | | | | |
| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | PG256C ^[1] |
| BANK7 True LVDS Pair | | | | | | | | |
| IOT13A | I/O | 7 | none | | True_of_IOT13B | True | x16 | D15 |
| IOT13B | I/O | 7 | none | | Comp_of_IOT13A | True | none | D16 |
| IOT19A/EMCCLK | I/O | 7 | none | EMCCLK | True_of_IOT19B | True | x16 | F15 |
| IOT19B/CSO_B | I/O | 7 | none | CSO_B | Comp_of_IOT19A | True | none | F16 |
| IOT1A/GCLKT_15/LPLL0_T_IN0 | I/O | 7 | none | GCLKT_15/LPLL0_T_IN0 | True_of_IOT1B | True | x16 | F14 |
| IOT1B/GCLKC_15 | I/O | 7 | none | GCLKC_15 | Comp_of_IOT1A | True | none | B16 |
| IOT21A | I/O | 7 | none | | True_of_IOT21B | True | x16 | G11 |
| IOT21B | I/O | 7 | none | | Comp_of_IOT21A | True | none | F13 |
| IOT23A | I/O | 7 | none | | True_of_IOT23B | True | x16 | G15 |
| IOT23B | I/O | 7 | none | | Comp_of_IOT23A | True | none | G16 |
| IOT25A/MODE0 | I/O | 7 | none | MODE0 | True_of_IOT25B | True | x16 | H13 |
| IOT25B/MODE1 | I/O | 7 | none | MODE1 | Comp_of_IOT25A | True | none | H12 |
| IOT27A/MODE2 | I/O | 7 | none | MODE2 | True_of_IOT27B | True | x16 | G12 |
| IOT27B/DONE | I/O | 7 | none | DONE | Comp_of_IOT27A | True | none | H14 |
| IOT3A/GCLKT_16 | I/O | 7 | none | GCLKT_16 | True_of_IOT3B | True | x16 | E15 |
| IOT3B/GCLKC_16 | I/O | 7 | none | GCLKC_16 | Comp_of_IOT3A | True | none | E16 |
| IOT9A | I/O | 7 | none | | True_of_IOT9B | True | x16 | C15 |
| IOT9B | I/O | 7 | none | | Comp_of_IOT9A | True | none | C16 |
| BANK6 True LVDS Pair | | | | | | | | |
| IOL12A | I/O | 6 | DQ7 | | True_of_IOL12B | True | x16 | E11 |
| IOL12B | I/O | 6 | DQ7 | | Comp_of_IOL12A | True | none | E10 |
| IOL14A/LPLL1_T_IN0 | I/O | 6 | DQ7 | LPLL1_T_IN0 | True_of_IOL14B | True | x16 | F9 |
| IOL14B | I/O | 6 | DQ7 | | Comp_of_IOL14A | True | none | F10 |
| IOL16A | I/O | 6 | DQ6/DQS_67 | | True_of_IOL16B | True | x16 | B13 |
| IOL16B | I/O | 6 | DQ6/DQS_67 | | Comp_of_IOL16A | True | none | A13 |
| IOL18A | I/O | 6 | DQ6 | | True_of_IOL18B | True | x16 | B12 |
| IOL18B | I/O | 6 | DQ6 | | Comp_of_IOL18A | True | none | A12 |

| 注! | | | | | | | | |
|---------------------------------------|-----|------|----------|--------------------------------|----------------|------|------|-----------------------|
| [1] EV版本封装。 | | | | | | | | |
| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | PG256C ^[1] |
| IOL21A | I/O | 6 | DQS6/DQ6 | | True_of_IOL21B | True | x16 | C11 |
| IOL21B | I/O | 6 | DQS6/DQ6 | | Comp_of_IOL21A | True | none | E9 |
| IOL23A | I/O | 6 | DQ6 | | True_of_IOL23B | True | x16 | B11 |
| IOL23B | I/O | 6 | DQ6 | | Comp_of_IOL23A | True | none | A11 |
| IOL25A | I/O | 6 | DQ6 | | True_of_IOL25B | True | x16 | B10 |
| IOL25B | I/O | 6 | DQ6 | | Comp_of_IOL25A | True | none | A10 |
| IOL27A | I/O | 6 | DQ6 | | True_of_IOL27B | True | x16 | D9 |
| IOL27B | I/O | 6 | DQ6 | | Comp_of_IOL27A | True | none | C9 |
| IOL29A | I/O | 6 | none | | True_of_IOL29B | True | x16 | B9 |
| IOL29B | I/O | 6 | none | | Comp_of_IOL29A | True | none | A9 |
| IOL3A/GCLKT_14/LPLL0_T_IN2 | I/O | 6 | DQ7 | GCLKT_14/LPLL0_T_IN2 | True_of_IOL3B | True | x16 | D14 |
| IOL3B/GCLKC_14/LPLL0_C_FB0 | I/O | 6 | DQ7 | GCLKC_14/LPLL0_C_FB0 | Comp_of_IOL3A | True | none | C14 |
| IOL5A/GCLKT_13/LPLL0_T_IN1 | I/O | 6 | DQ7 | GCLKT_13/LPLL0_T_IN1 | True_of_IOL5B | True | x16 | D12 |
| IOL5B/GCLKC_13/LPLL0_C_FB1 | I/O | 6 | DQ7 | GCLKC_13/LPLL0_C_FB1 | Comp_of_IOL5A | True | none | D11 |
| IOL7A | I/O | 6 | DQ7 | | True_of_IOL7B | True | x16 | A15 |
| IOL7B | I/O | 6 | DQ7 | | Comp_of_IOL7A | True | none | F11 |
| IOL9A | I/O | 6 | DQS7/DQ7 | | True_of_IOL9B | True | x16 | B14 |
| IOL9B | I/O | 6 | DQS7/DQ7 | | Comp_of_IOL9A | True | none | A14 |
| BANK5 True LVDS Pair | | | | | | | | |
| IOB10A/D06/SSPI_CS_N | I/O | 5 | none | D06/SSPI_CS_N | True_of_IOB10B | True | x16 | E6 |
| IOB10B/D05/SI/SSI0 | I/O | 5 | none | D05/SI/SSI0 | Comp_of_IOB10A | True | none | E7 |
| IOB12A/GCLKT_10B/D15/SSPI_WP/SSI2 | I/O | 5 | none | GCLKT_10B/D15/SSPI_WP/SSI2 | True_of_IOB12B | True | x16 | C6 |
| IOB12B/GCLKC_10B/D07/DOUT/LPLL1_C_IN1 | I/O | 5 | none | GCLKC_10B/D07/DOUT/LPLL1_C_IN1 | Comp_of_IOB12A | True | none | A5 |
| IOB14A/SSPI_CLK | I/O | 5 | none | SSPI_CLK | True_of_IOB14B | True | x16 | B6 |
| IOB14B/CLKHOLD_N/SSI3 | I/O | 5 | none | CLKHOLD_N/SSI3 | Comp_of_IOB14A | True | none | A6 |
| IOB16A | I/O | 5 | none | | True_of_IOB16B | True | x16 | D6 |

注!
[1] EV版本封装。

| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | PG256C ^[1] |
|--|-----|------|------|-----------------------------------|----------------|------|------|-----------------------|
| IOB16B | I/O | 5 | none | | Comp_of_IOB16A | True | none | D5 |
| IOB18A | I/O | 5 | none | | True_of_IOB18B | True | x16 | B4 |
| IOB18B | I/O | 5 | none | | Comp_of_IOB18A | True | none | A4 |
| IOB20A | I/O | 5 | none | | True_of_IOB20B | True | x16 | F7 |
| IOB20B | I/O | 5 | none | | Comp_of_IOB20A | True | none | F6 |
| IOB22A | I/O | 5 | none | | True_of_IOB22B | True | x16 | B5 |
| IOB22B | I/O | 5 | none | | Comp_of_IOB22A | True | none | A2 |
| IOB24A | I/O | 5 | none | | True_of_IOB24B | True | x16 | D3 |
| IOB24B | I/O | 5 | none | | Comp_of_IOB24A | True | none | C3 |
| IOB26A/GCLKT_12 | I/O | 5 | none | GCLKT_12 | True_of_IOB26B | True | x16 | B3 |
| IOB26B/GCLKC_12 | I/O | 5 | none | GCLKC_12 | Comp_of_IOB26A | True | none | A3 |
| IOB2A | I/O | 5 | none | | True_of_IOB2B | True | x16 | B8 |
| IOB2B | I/O | 5 | none | | Comp_of_IOB2A | True | none | A8 |
| IOB4A/D04/SDA | I/O | 5 | none | D04/SDA | True_of_IOB4B | True | x16 | B7 |
| IOB4B/D09/SCL/LPLL1_C_FB0 | I/O | 5 | none | D09/SCL/LPLL1_C_FB0 | Comp_of_IOB4A | True | none | A7 |
| IOB6A | I/O | 5 | none | | True_of_IOB6B | True | x16 | C8 |
| IOB6B | I/O | 5 | none | | Comp_of_IOB6A | True | none | D8 |
| IOB8A/D03/SO/SSI1 | I/O | 5 | none | D03/SO/SSI1 | True_of_IOB8B | True | x16 | F8 |
| IOB8B/D02 | I/O | 5 | none | D02 | Comp_of_IOB8A | True | none | E8 |
| BANK4 True LVDS Pair | | | | | | | | |
| IOB29A/GCLKT_11A | I/O | 4 | none | GCLKT_11A | True_of_IOB29B | True | x16 | B1 |
| IOB29B/GCLKC_11A | I/O | 4 | none | GCLKC_11A | Comp_of_IOB29A | True | none | D4 |
| IOB31A/GCLKT_10A/D14 | I/O | 4 | none | GCLKT_10A/D14 | True_of_IOB31B | True | x16 | C2 |
| IOB31B/GCLKC_10A/D01/MOSI/MIO/BPLL_C_FB0 | I/O | 4 | none | GCLKC_10A/D01/MOSI/MIO/BPLL_C_FB0 | Comp_of_IOB31A | True | none | C1 |
| IOB33A/GCLKT_9/D13/MCS_N/BPLL_T_IN1 | I/O | 4 | none | GCLKT_9/D13/MCS_N/BPLL_T_IN1 | True_of_IOB33B | True | x16 | D2 |
| IOB33B/GCLKC_9 | I/O | 4 | none | GCLKC_9 | Comp_of_IOB33A | True | none | D1 |

| 注! | | | | | | | | |
|---------------------------------|-----|------|------------|--------------------------|----------------|------|------|-----------------------|
| [1] EV版本封装。 | | | | | | | | |
| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | PG256C ^[1] |
| IOB35A/GCLKT_8 | I/O | 4 | none | GCLKT_8 | True_of_IOB35B | True | x16 | E5 |
| IOB35B/GCLKC_8 | I/O | 4 | none | GCLKC_8 | Comp_of_IOB35A | True | none | E1 |
| IOB37A/D08 | I/O | 4 | none | D08 | True_of_IOB37B | True | x16 | G5 |
| IOB37B | I/O | 4 | none | | Comp_of_IOB37A | True | none | F5 |
| IOB45A | I/O | 4 | none | | True_of_IOB45B | True | x16 | F3 |
| IOB50A/D11 | I/O | 4 | none | D11 | True_of_IOB50B | True | x16 | F2 |
| IOB50B/D12 | I/O | 4 | none | D12 | Comp_of_IOB50A | True | none | F1 |
| IOB52A/RECONFIG_N | I/O | 4 | none | RECONFIG_N | True_of_IOB52B | True | x16 | H5 |
| IOB54A/GCLKT_11B/D10/MI2 | I/O | 4 | none | GCLKT_11B/D10/MI2 | True_of_IOB54B | True | x16 | G2 |
| IOB54B/GCLKC_11B/MI3/BPLL_C_FB1 | I/O | 4 | none | GCLKC_11B/MI3/BPLL_C_FB1 | Comp_of_IOB54A | True | none | G1 |
| IOB58A/D00/MISO/MI1/DIN | I/O | 4 | none | D00/MISO/MI1/DIN | True_of_IOB58B | True | x16 | H2 |
| IOB62A/CCLK | I/O | 4 | none | CCLK | True_of_IOB62B | True | x16 | H1 |
| IOB62B/CSI_B | I/O | 4 | none | CSI_B | Comp_of_IOB62A | True | none | J3 |
| BANK3 True LVDS Pair | | | | | | | | |
| IOB65A | I/O | 3 | none | | True_of_IOB65B | True | x16 | J6 |
| IOB65B | I/O | 3 | none | | Comp_of_IOB65A | True | none | L3 |
| IOB69A | I/O | 3 | DQ5 | | True_of_IOB69B | True | x16 | J2 |
| IOB69B | I/O | 3 | DQ5 | | Comp_of_IOB69A | True | none | J1 |
| IOB71A | I/O | 3 | DQ5 | | True_of_IOB71B | True | x16 | K2 |
| IOB71B | I/O | 3 | DQ5 | | Comp_of_IOB71A | True | none | K1 |
| IOB73A | I/O | 3 | DQ5 | | True_of_IOB73B | True | x16 | K5 |
| IOB73B | I/O | 3 | DQ5 | | Comp_of_IOB73A | True | none | L4 |
| IOB75A/GCLKT_6B | I/O | 3 | DQS5/DQ5 | GCLKT_6B | True_of_IOB75B | True | x16 | L2 |
| IOB75B/GCLKC_6B | I/O | 3 | DQS5/DQ5 | GCLKC_6B | Comp_of_IOB75A | True | none | L1 |
| IOB77A | I/O | 3 | DQ5 | | True_of_IOB77B | True | x16 | N2 |
| IOB77B | I/O | 3 | DQ5 | | Comp_of_IOB77A | True | none | N1 |
| IOB79A | I/O | 3 | DQ5/DQS_45 | | True_of_IOB79B | True | x16 | P2 |

| 注! | | | | | | | | |
|----------------------------|-----|------|------------|---------------------|----------------|------|------|-----------------------|
| [1] EV版本封装。 | | | | | | | | |
| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | PG256C ^[1] |
| IOB79B | I/O | 3 | DQ5/DQS_45 | | Comp_of_IOB79A | True | none | P1 |
| IOB85B | I/O | 3 | DQS4/DQ4 | | Comp_of_IOB85A | True | none | R1 |
| IOB89A/GCLKT_7/BPLL_T_IN0 | I/O | 3 | DQ4 | GCLKT_7/BPLL_T_IN0 | True_of_IOB89B | True | x16 | M2 |
| IOB89B/GCLKC_7 | I/O | 3 | DQ4 | GCLKC_7 | Comp_of_IOB89A | True | none | M1 |
| IOB91A/GCLKT_6A | I/O | 3 | DQ4 | GCLKT_6A | True_of_IOB91B | True | x16 | K6 |
| IOB91B/GCLKC_6A | I/O | 3 | DQ4 | GCLKC_6A | Comp_of_IOB91A | True | none | L6 |
| BANK2 True LVDS Pair | | | | | | | | |
| IOR12A | I/O | 2 | DQS2/DQ2 | | True_of_IOR12B | True | x16 | R7 |
| IOR12B | I/O | 2 | DQS2/DQ2 | | Comp_of_IOR12A | True | none | T7 |
| IOR14A | I/O | 2 | DQ2 | | True_of_IOR14B | True | x16 | R6 |
| IOR14B | I/O | 2 | DQ2 | | Comp_of_IOR14A | True | none | T6 |
| IOR18A | I/O | 2 | DQ2/DQS_23 | | True_of_IOR18B | True | x16 | R5 |
| IOR18B | I/O | 2 | DQ2/DQS_23 | | Comp_of_IOR18A | True | none | T5 |
| IOR20A | I/O | 2 | DQ3 | | True_of_IOR20B | True | x16 | P6 |
| IOR20B | I/O | 2 | DQ3 | | Comp_of_IOR20A | True | none | M6 |
| IOR22A | I/O | 2 | DQ3 | | True_of_IOR22B | True | x16 | N5 |
| IOR22B | I/O | 2 | DQ3 | | Comp_of_IOR22A | True | none | N6 |
| IOR24A | I/O | 2 | DQ3 | | True_of_IOR24B | True | x16 | R3 |
| IOR24B | I/O | 2 | DQ3 | | Comp_of_IOR24A | True | none | T3 |
| IOR26A | I/O | 2 | DQS3/DQ3 | | True_of_IOR26B | True | x16 | M7 |
| IOR26B | I/O | 2 | DQS3/DQ3 | | Comp_of_IOR26A | True | none | K8 |
| IOR29A | I/O | 2 | DQ3 | | True_of_IOR29B | True | x16 | N3 |
| IOR29B | I/O | 2 | DQ3 | | Comp_of_IOR29A | True | none | P3 |
| IOR31A/GCLKT_4/RPLL1_T_IN0 | I/O | 2 | DQ3 | GCLKT_4/RPLL1_T_IN0 | True_of_IOR31B | True | x16 | R4 |
| IOR31B/GCLKC_4/RPLL1_C_FB1 | I/O | 2 | DQ3 | GCLKC_4/RPLL1_C_FB1 | Comp_of_IOR31A | True | none | T4 |
| IOR33A/GCLKT_5/RPLL1_T_IN1 | I/O | 2 | none | GCLKT_5/RPLL1_T_IN1 | True_of_IOR33B | True | x16 | T2 |
| IOR33B/GCLKC_5/RPLL1_C_FB0 | I/O | 2 | none | GCLKC_5/RPLL1_C_FB0 | Comp_of_IOR33A | True | none | L7 |
| IOR5A | I/O | 2 | none | | True_of_IOR5B | True | x16 | R8 |

| 注! | | | | | | | | |
|----------------------------|-----|------|------------|---------------------|----------------|------|------|-----------------------|
| [1] EV版本封装。 | | | | | | | | |
| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | PG256C ^[1] |
| IOR5B | I/O | 2 | none | | Comp_of_IOR5A | True | none | T8 |
| IOR7A | I/O | 2 | DQ2 | | True_of_IOR7B | True | x16 | N8 |
| IOR7B | I/O | 2 | DQ2 | | Comp_of_IOR7A | True | none | P8 |
| IOR9A | I/O | 2 | DQ2 | | True_of_IOR9B | True | x16 | L8 |
| IOR9B | I/O | 2 | DQ2 | | Comp_of_IOR9A | True | none | M8 |
| BANK1 True LVDS Pair | | | | | | | | |
| IOT61A/GCLKT_2/TPLL_T_IN0 | I/O | 1 | DQS0/DQ0 | GCLKT_2/TPLL_T_IN0 | True_of_IOT61B | True | x16 | T14 |
| IOT61B/GCLKC_2 | I/O | 1 | DQS0/DQ0 | GCLKC_2 | Comp_of_IOT61A | True | none | T15 |
| IOT63A/GCLKT_3/RPLL0_T_IN0 | I/O | 1 | DQ0 | GCLKT_3/RPLL0_T_IN0 | True_of_IOT63B | True | x16 | P14 |
| IOT63B/GCLKC_3 | I/O | 1 | DQ0 | GCLKC_3 | Comp_of_IOT63A | True | none | L11 |
| IOT66A | I/O | 1 | DQ0 | | True_of_IOT66B | True | x16 | R14 |
| IOT70A | I/O | 1 | DQ0 | | True_of_IOT70B | True | x16 | M11 |
| IOT70B | I/O | 1 | DQ0 | | Comp_of_IOT70A | True | none | N12 |
| IOT72A | I/O | 1 | DQ0 | | True_of_IOT72B | True | x16 | R13 |
| IOT72B | I/O | 1 | DQ0 | | Comp_of_IOT72A | True | none | T13 |
| IOT74A | I/O | 1 | DQ1/DQS_01 | | True_of_IOT74B | True | x16 | K10 |
| IOT74B | I/O | 1 | DQ1/DQS_01 | | Comp_of_IOT74A | True | none | L10 |
| IOT76A | I/O | 1 | DQ1 | | True_of_IOT76B | True | x16 | R12 |
| IOT76B | I/O | 1 | DQ1 | | Comp_of_IOT76A | True | none | T12 |
| IOT78A | I/O | 1 | DQ1 | | True_of_IOT78B | True | x16 | M10 |
| IOT78B | I/O | 1 | DQ1 | | Comp_of_IOT78A | True | none | N11 |
| IOT80A | I/O | 1 | DQS1/DQ1 | | True_of_IOT80B | True | x16 | R10 |
| IOT80B | I/O | 1 | DQS1/DQ1 | | Comp_of_IOT80A | True | none | T10 |
| IOT83A | I/O | 1 | DQ1 | | True_of_IOT83B | True | x16 | R11 |
| IOT83B | I/O | 1 | DQ1 | | Comp_of_IOT83A | True | none | T11 |
| IOT85A | I/O | 1 | DQ1 | | True_of_IOT85B | True | x16 | M9 |
| IOT85B | I/O | 1 | DQ1 | | Comp_of_IOT85A | True | none | N9 |

注!
[1] EV版本封装。

| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | PG256C ^[1] |
|-----------------------------|-----|------|------|-------------|----------------|------|------|-----------------------|
| IOT87A | I/O | 1 | none | | True_of_IOT87B | True | x16 | K9 |
| IOT87B | I/O | 1 | none | | Comp_of_IOT87A | True | none | L9 |
| IOT89A/RPLL0_T_FB1 | I/O | 1 | none | RPLL0_T_FB1 | True_of_IOT89B | True | x16 | P9 |
| IOT89B | I/O | 1 | none | | Comp_of_IOT89A | True | none | P11 |
| IOT91A/RPLL0_T_IN1 | I/O | 1 | none | RPLL0_T_IN1 | True_of_IOT91B | True | x16 | R9 |
| IOT91B/RPLL0_C_FB0 | I/O | 1 | none | RPLL0_C_FB0 | Comp_of_IOT91A | True | none | T9 |
| BANK0 True LVDS Pair | | | | | | | | |
| IOT31A | I/O | 0 | none | | True_of_IOT31B | True | x16 | J12 |
| IOT31B | I/O | 0 | none | | Comp_of_IOT31A | True | none | J14 |
| IOT33A | I/O | 0 | none | | True_of_IOT33B | True | x16 | J15 |
| IOT33B | I/O | 0 | none | | Comp_of_IOT33A | True | none | J16 |
| IOT37A | I/O | 0 | none | | True_of_IOT37B | True | x16 | L15 |
| IOT37B | I/O | 0 | none | | Comp_of_IOT37A | True | none | L16 |
| IOT39A | I/O | 0 | none | | True_of_IOT39B | True | x16 | J13 |
| IOT39B | I/O | 0 | none | | Comp_of_IOT39A | True | none | L13 |
| IOT41A | I/O | 0 | none | | True_of_IOT41B | True | x16 | L14 |
| IOT43A | I/O | 0 | none | | True_of_IOT43B | True | x16 | J11 |
| IOT43B | I/O | 0 | none | | Comp_of_IOT43A | True | none | K12 |
| IOT45A | I/O | 0 | none | | True_of_IOT45B | True | x16 | N15 |
| IOT45B | I/O | 0 | none | | Comp_of_IOT45A | True | none | N16 |
| IOT48A | I/O | 0 | none | | True_of_IOT48B | True | x16 | L12 |
| IOT48B | I/O | 0 | none | | Comp_of_IOT48A | True | none | K11 |
| IOT50A | I/O | 0 | none | | True_of_IOT50B | True | x16 | R16 |
| IOT50B | I/O | 0 | none | | Comp_of_IOT50A | True | none | P16 |
| IOT52A | I/O | 0 | none | | True_of_IOT52B | True | x16 | N14 |
| IOT52B | I/O | 0 | none | | Comp_of_IOT52A | True | none | P15 |
| IOT54A | I/O | 0 | none | | True_of_IOT54B | True | x16 | N13 |

注!
 [1] EV版本封装。

| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | PG256C ^[1] |
|---------------------------|-----|------|------|--------------------|----------------|------|------|-----------------------|
| IOT54B | I/O | 0 | none | | Comp_of_IOT54A | True | none | M12 |
| IOT56A/GCLKT_0/TPLL_T_IN1 | I/O | 0 | none | GCLKT_0/TPLL_T_IN1 | True_of_IOT56B | True | x16 | K15 |
| IOT56B/GCLKC_0/TPLL_C_FB1 | I/O | 0 | none | GCLKC_0/TPLL_C_FB1 | Comp_of_IOT56A | True | none | K16 |
| IOT58A/GCLKT_1/TPLL_T_IN2 | I/O | 0 | none | GCLKT_1/TPLL_T_IN2 | True_of_IOT58B | True | x16 | M15 |
| IOT58B/GCLKC_1/TPLL_C_FB0 | I/O | 0 | none | GCLKC_1/TPLL_C_FB0 | Comp_of_IOT58A | True | none | M16 |

注!
[1] LV版本封装。

| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | PG256 ^[1] |
|-----------------------------|-----|------|------|----------------------|----------------|------|-----|----------------------|
| BANK7 True LVDS Pair | | | | | | | | |
| IOT11A | I/O | 7 | none | | True_of_IOT11B | True | x16 | F4 |
| IOT11B | I/O | 7 | none | | Comp_of_IOT11A | True | x16 | F3 |
| IOT13A | I/O | 7 | none | | True_of_IOT13B | True | x16 | E2 |
| IOT13B | I/O | 7 | none | | Comp_of_IOT13A | True | x16 | E1 |
| IOT15A | I/O | 7 | none | | True_of_IOT15B | True | x16 | F6 |
| IOT15B | I/O | 7 | none | | Comp_of_IOT15A | True | x16 | F5 |
| IOT17A | I/O | 7 | none | | True_of_IOT17B | True | x16 | E4 |
| IOT17B | I/O | 7 | none | | Comp_of_IOT17A | True | x16 | E3 |
| IOT19A | I/O | 7 | none | | True_of_IOT19B | True | x16 | D3 |
| IOT19B | I/O | 7 | none | | Comp_of_IOT19A | True | x16 | D1 |
| IOT1A/GCLKT_15/LPLL0_T_IN0 | I/O | 7 | none | GCLKT_15/LPLL0_T_IN0 | True_of_IOT1B | True | x16 | H4 |
| IOT1B/GCLKC_15 | I/O | 7 | none | GCLKC_15 | Comp_of_IOT1A | True | x16 | H3 |
| IOT21A | I/O | 7 | none | | True_of_IOT21B | True | x16 | C1 |
| IOT21B | I/O | 7 | none | | Comp_of_IOT21A | True | x16 | B1 |
| IOT23A | I/O | 7 | none | | True_of_IOT23B | True | x16 | C3 |
| IOT23B | I/O | 7 | none | | Comp_of_IOT23A | True | x16 | C2 |
| IOT25A | I/O | 7 | none | | True_of_IOT25B | True | x16 | B2 |
| IOT25B | I/O | 7 | none | | Comp_of_IOT25A | True | x16 | A2 |
| IOT27A | I/O | 7 | none | | True_of_IOT27B | True | x16 | B3 |
| IOT27B | I/O | 7 | none | | Comp_of_IOT27A | True | x16 | A3 |
| IOT3A/GCLKT_16 | I/O | 7 | none | GCLKT_16 | True_of_IOT3B | True | x16 | J6 |
| IOT3B/GCLKC_16 | I/O | 7 | none | GCLKC_16 | Comp_of_IOT3A | True | x16 | H5 |
| IOT5A | I/O | 7 | none | | True_of_IOT5B | True | x16 | L4 |
| IOT5B | I/O | 7 | none | | Comp_of_IOT5A | True | x16 | L5 |
| IOT7A | I/O | 7 | none | | True_of_IOT7B | True | x16 | K5 |
| IOT7B | I/O | 7 | none | | Comp_of_IOT7A | True | x16 | K6 |

| 注! | | | | | | | | |
|---|-----|------|------------|---------------------------------|----------------|------|-----|----------------------|
| [1] LV版本封装。 | | | | | | | | |
| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | PG256 ^[1] |
| IOT9A | I/O | 7 | none | | True_of_IOT9B | True | x16 | G6 |
| IOT9B | I/O | 7 | none | | Comp_of_IOT9A | True | x16 | G5 |
| BANK6 True LVDS Pair | | | | | | | | |
| IOL12A | I/O | 6 | DQ7 | | True_of_IOL12B | True | x16 | J3 |
| IOL12B | I/O | 6 | DQ7 | | Comp_of_IOL12A | True | x16 | J1 |
| IOL14A/LPLL1_T_IN0 | I/O | 6 | DQ7 | LPLL1_T_IN0 | True_of_IOL14B | True | x16 | K2 |
| IOL14B | I/O | 6 | DQ7 | | Comp_of_IOL14A | True | x16 | K1 |
| IOL16A | I/O | 6 | DQ6/DQS_67 | | True_of_IOL16B | True | x16 | L3 |
| IOL16B | I/O | 6 | DQ6/DQS_67 | | Comp_of_IOL16A | True | x16 | L1 |
| IOL18A | I/O | 6 | DQ6 | | True_of_IOL18B | True | x16 | M2 |
| IOL18B | I/O | 6 | DQ6 | | Comp_of_IOL18A | True | x16 | M1 |
| IOL3A/GCLKT_14/LPLL0_T_IN2 | I/O | 6 | DQ7 | GCLKT_14/LPLL0_T_IN2 | True_of_IOL3B | True | x16 | K3 |
| IOL3B/GCLKC_14/LPLL0_C_FB0 | I/O | 6 | DQ7 | GCLKC_14/LPLL0_C_FB0 | Comp_of_IOL3A | True | x16 | J4 |
| IOL5A/GCLKT_13/LPLL0_T_IN1 | I/O | 6 | DQ7 | GCLKT_13/LPLL0_T_IN1 | True_of_IOL5B | True | x16 | F2 |
| IOL5B/GCLKC_13/LPLL0_C_FB1 | I/O | 6 | DQ7 | GCLKC_13/LPLL0_C_FB1 | Comp_of_IOL5A | True | x16 | F1 |
| IOL7A | I/O | 6 | DQ7 | | True_of_IOL7B | True | x16 | G3 |
| IOL7B | I/O | 6 | DQ7 | | Comp_of_IOL7A | True | x16 | G1 |
| IOL9A | I/O | 6 | DQS7/DQ7 | | True_of_IOL9B | True | x16 | H2 |
| IOL9B | I/O | 6 | DQS7/DQ7 | | Comp_of_IOL9A | True | x16 | H1 |
| BANK5 True LVDS Pair | | | | | | | | |
| IOB10A/D03/SSPI_CN | I/O | 5 | none | D03/SSPI_CN | True_of_IOB10B | True | x16 | N5 |
| IOB10B/D04/SI/SSI0 | I/O | 5 | none | D04/SI/SSI0 | Comp_of_IOB10A | True | x16 | P5 |
| IOB12A/GCLKT_10B/D07/SSPI_WP PN/SSI2 | I/O | 5 | none | GCLKT_10B/D07/SSPI_WP N/SSI2 | True_of_IOB12B | True | x16 | R5 |
| IOB12B/GCLKC_10B/RDWR_B/LP LL1_C_IN1 | I/O | 5 | none | GCLKC_10B/RDWR_B/LP L1_C_IN1 | Comp_of_IOB12A | True | x16 | T5 |
| IOB14A/SSPI_CLK | I/O | 5 | none | SSPI_CLK | True_of_IOB14B | True | x16 | P6 |
| IOB14B/CLKHOLD_N/SSI3 | I/O | 5 | none | CLKHOLD_N/SSI3 | Comp_of_IOB14A | True | x16 | T6 |

| 注! | | | | | | | | |
|---------------------------------|-----|------|------|--------------------------|----------------|------|-----|----------------------|
| [1] LV版本封装。 | | | | | | | | |
| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | PG256 ^[1] |
| IOB26A/GCLKT_9B | I/O | 5 | none | GCLKT_9B | True_of_IOB26B | True | x16 | R7 |
| IOB26B/GCLKC_9B | I/O | 5 | none | GCLKC_9B | Comp_of_IOB26A | True | x16 | T7 |
| IOB2A | I/O | 5 | none | | True_of_IOB2B | True | x16 | P4 |
| IOB2B | I/O | 5 | none | | Comp_of_IOB2A | True | x16 | T4 |
| IOB4A/D08/SDA | I/O | 5 | none | D08/SDA | True_of_IOB4B | True | x16 | M6 |
| IOB4B/D09/SCL/LPLL1_C_FB0 | I/O | 5 | none | D09/SCL/LPLL1_C_FB0 | Comp_of_IOB4A | True | x16 | N6 |
| IOB8A/D05/SO/SSI1 | I/O | 5 | none | D05/SO/SSI1 | True_of_IOB8B | True | x16 | L8 |
| IOB8B/D06 | I/O | 5 | none | D06 | Comp_of_IOB8A | True | x16 | L7 |
| BANK4 True LVDS Pair | | | | | | | | |
| IOB29A/GCLKT_11A | I/O | 4 | none | GCLKT_11A | True_of_IOB29B | True | x16 | M9 |
| IOB29B/GCLKC_11A | I/O | 4 | none | GCLKC_11A | Comp_of_IOB29A | True | x16 | N8 |
| IOB31A/GCLKT_10A/D14 | I/O | 4 | none | GCLKT_10A/D14 | True_of_IOB31B | True | x16 | P7 |
| IOB31B/GCLKC_10A/D15/BPLL_C_FB0 | I/O | 4 | none | GCLKC_10A/D15/BPLL_C_FB0 | Comp_of_IOB31A | True | x16 | M7 |
| IOB33A/GCLKT_9A/D13/BPLL_T_I_N1 | I/O | 4 | none | GCLKT_9A/D13/BPLL_T_I_N1 | True_of_IOB33B | True | x16 | P8 |
| IOB33B/GCLKC_9A/EMCCLK | I/O | 4 | none | GCLKC_9A/EMCCLK | Comp_of_IOB33A | True | x16 | T8 |
| IOB35A/GCLKT_8 | I/O | 4 | none | GCLKT_8 | True_of_IOB35B | True | x16 | R9 |
| IOB35B/GCLKC_8 | I/O | 4 | none | GCLKC_8 | Comp_of_IOB35A | True | x16 | T9 |
| IOB37A/READY | I/O | 4 | none | READY | True_of_IOB37B | True | x16 | R3 |
| IOB37B/MCS_N/CSO_B | I/O | 4 | none | MCS_N/CSO_B | Comp_of_IOB37A | True | x16 | T3 |
| IOB45A | I/O | 4 | none | | True_of_IOB45B | True | x16 | L10 |
| IOB45B | I/O | 4 | none | | Comp_of_IOB45A | True | x16 | M10 |
| IOB50A/D11 | I/O | 4 | none | D11 | True_of_IOB50B | True | x16 | N9 |
| IOB50B/D12 | I/O | 4 | none | D12 | Comp_of_IOB50A | True | x16 | P9 |
| IOB52A/MODE1 | I/O | 4 | none | MODE1 | True_of_IOB52B | True | x16 | N11 |
| IOB52B/D10 | I/O | 4 | none | D10 | Comp_of_IOB52A | True | x16 | P11 |
| IOB54A/GCLKT_11B/D01/MI2/MI2 | I/O | 4 | none | GCLKT_11B/D01/MI2/MI2 | True_of_IOB54B | True | x16 | N12 |

| 注! | | | | | | | | |
|---|-----|------|------------|----------------------------------|----------------|------|-----|----------------------|
| [1] LV版本封装。 | | | | | | | | |
| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | PG256 ^[1] |
| IOB54B/GCLKC_11B/D02/MI3/MI3/BPLL_C_FB1 | I/O | 4 | none | GCLKC_11B/D02/MI3/MI3/BPLL_C_FB1 | Comp_of_IOB54A | True | x16 | P12 |
| IOB56A | I/O | 4 | none | | True_of_IOB56B | True | x16 | L11 |
| IOB58A/D00/DIN/MISO/MI1/MI1 | I/O | 4 | none | D00/DIN/MISO/MI1/MI1 | True_of_IOB58B | True | x16 | P10 |
| IOB58B/MOSI/MI0/MI0/CSI_B | I/O | 4 | none | MOSI/MI0/MI0/CSI_B | Comp_of_IOB58A | True | x16 | T10 |
| IOB60A | I/O | 4 | none | | True_of_IOB60B | True | x16 | M12 |
| IOB60B | I/O | 4 | none | | Comp_of_IOB60A | True | x16 | M11 |
| IOB62A/CCLK | I/O | 4 | none | CCLK | True_of_IOB62B | True | x16 | R11 |
| IOB62B/MODE0 | I/O | 4 | none | MODE0 | Comp_of_IOB62A | True | x16 | T11 |
| BANK3 True LVDS Pair | | | | | | | | |
| IOB65A | I/O | 3 | none | | True_of_IOB65B | True | x16 | M13 |
| IOB65B/DOUT | I/O | 3 | none | DOUT | Comp_of_IOB65A | True | x16 | M14 |
| IOB69A | I/O | 3 | DQ5 | | True_of_IOB69B | True | x16 | L12 |
| IOB69B | I/O | 3 | DQ5 | | Comp_of_IOB69A | True | x16 | L13 |
| IOB71A | I/O | 3 | DQ5 | | True_of_IOB71B | True | x16 | R12 |
| IOB71B | I/O | 3 | DQ5 | | Comp_of_IOB71A | True | x16 | T12 |
| IOB73A | I/O | 3 | DQ5 | | True_of_IOB73B | True | x16 | T14 |
| IOB73B | I/O | 3 | DQ5 | | Comp_of_IOB73A | True | x16 | T13 |
| IOB75A/GCLKT_6B | I/O | 3 | DQS5/DQ5 | GCLKT_6B | True_of_IOB75B | True | x16 | R14 |
| IOB75B/GCLKC_6B | I/O | 3 | DQS5/DQ5 | GCLKC_6B | Comp_of_IOB75A | True | x16 | T15 |
| IOB77A | I/O | 3 | DQ5 | | True_of_IOB77B | True | x16 | R15 |
| IOB77B | I/O | 3 | DQ5 | | Comp_of_IOB77A | True | x16 | R16 |
| IOB79A | I/O | 3 | DQ5/DQS_45 | | True_of_IOB79B | True | x16 | P15 |
| IOB79B | I/O | 3 | DQ5/DQS_45 | | Comp_of_IOB79A | True | x16 | P16 |
| IOB81A | I/O | 3 | DQ4 | | True_of_IOB81B | True | x16 | L14 |
| IOB81B | I/O | 3 | DQ4 | | Comp_of_IOB81A | True | x16 | L16 |
| IOB83A | I/O | 3 | DQ4 | | True_of_IOB83B | True | x16 | M15 |
| IOB83B | I/O | 3 | DQ4 | | Comp_of_IOB83A | True | x16 | M16 |

注!
[1] LV版本封装。

| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | PG256 ^[1] |
|-----------------------------|-----|------|------------|---------------------|----------------|------|-----|----------------------|
| IOB85A | I/O | 3 | DQS4/DQ4 | | True_of_IOB85B | True | x16 | N14 |
| IOB85B | I/O | 3 | DQS4/DQ4 | | Comp_of_IOB85A | True | x16 | N16 |
| IOB87A | I/O | 3 | DQ4 | | True_of_IOB87B | True | x16 | K15 |
| IOB87B | I/O | 3 | DQ4 | | Comp_of_IOB87A | True | x16 | K16 |
| IOB89A/GCLKT_7/BPLL_T_IN0 | I/O | 3 | DQ4 | GCLKT_7/BPLL_T_IN0 | True_of_IOB89B | True | x16 | J14 |
| IOB89B/GCLKC_7 | I/O | 3 | DQ4 | GCLKC_7 | Comp_of_IOB89A | True | x16 | J16 |
| IOB91A/GCLKT_6A | I/O | 3 | DQ4 | GCLKT_6A | True_of_IOB91B | True | x16 | K12 |
| IOB91B/GCLKC_6A | I/O | 3 | DQ4 | GCLKC_6A | Comp_of_IOB91A | True | x16 | K11 |
| BANK2 True LVDS Pair | | | | | | | | |
| IOR12A | I/O | 2 | DQS2/DQ2 | | True_of_IOR12B | True | x16 | D14 |
| IOR12B | I/O | 2 | DQS2/DQ2 | | Comp_of_IOR12A | True | x16 | D16 |
| IOR14A | I/O | 2 | DQ2 | | True_of_IOR14B | True | x16 | F13 |
| IOR14B | I/O | 2 | DQ2 | | Comp_of_IOR14A | True | x16 | F14 |
| IOR16A | I/O | 2 | DQ2 | | True_of_IOR16B | True | x16 | C15 |
| IOR16B | I/O | 2 | DQ2 | | Comp_of_IOR16A | True | x16 | C16 |
| IOR18A | I/O | 2 | DQ2/DQS_23 | | True_of_IOR18B | True | x16 | E15 |
| IOR18B | I/O | 2 | DQ2/DQS_23 | | Comp_of_IOR18A | True | x16 | E16 |
| IOR20A | I/O | 2 | DQ3 | | True_of_IOR20B | True | x16 | F15 |
| IOR20B | I/O | 2 | DQ3 | | Comp_of_IOR20A | True | x16 | F16 |
| IOR22A | I/O | 2 | DQ3 | | True_of_IOR22B | True | x16 | G14 |
| IOR22B | I/O | 2 | DQ3 | | Comp_of_IOR22A | True | x16 | G16 |
| IOR24A | I/O | 2 | DQ3 | | True_of_IOR24B | True | x16 | H15 |
| IOR24B | I/O | 2 | DQ3 | | Comp_of_IOR24A | True | x16 | H16 |
| IOR26A | I/O | 2 | DQS3/DQ3 | | True_of_IOR26B | True | x16 | G12 |
| IOR26B | I/O | 2 | DQS3/DQ3 | | Comp_of_IOR26A | True | x16 | H11 |
| IOR29A | I/O | 2 | DQ3 | | True_of_IOR29B | True | x16 | H13 |
| IOR29B | I/O | 2 | DQ3 | | Comp_of_IOR29A | True | x16 | H14 |
| IOR31A/GCLKT_4/RPLL1_T_IN0 | I/O | 2 | DQ3 | GCLKT_4/RPLL1_T_IN0 | True_of_IOR31B | True | x16 | J11 |

注!
[1] LV版本封装。

| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | PG256 ^[1] |
|-----------------------------|-----|------|----------|---------------------|----------------|------|-----|----------------------|
| IOR31B/GCLKC_4/RPLL1_C_FB1 | I/O | 2 | DQ3 | GCLKC_4/RPLL1_C_FB1 | Comp_of_IOR31A | True | x16 | J12 |
| IOR33A/GCLKT_5/RPLL1_T_IN1 | I/O | 2 | none | GCLKT_5/RPLL1_T_IN1 | True_of_IOR33B | True | x16 | J13 |
| IOR33B/GCLKC_5/RPLL1_C_FB0 | I/O | 2 | none | GCLKC_5/RPLL1_C_FB0 | Comp_of_IOR33A | True | x16 | K14 |
| IOR5A | I/O | 2 | none | | True_of_IOR5B | True | x16 | E13 |
| IOR5B | I/O | 2 | none | | Comp_of_IOR5A | True | x16 | E12 |
| IOR7A | I/O | 2 | DQ2 | | True_of_IOR7B | True | x16 | B15 |
| IOR7B | I/O | 2 | DQ2 | | Comp_of_IOR7A | True | x16 | B16 |
| IOR9A | I/O | 2 | DQ2 | | True_of_IOR9B | True | x16 | F12 |
| IOR9B | I/O | 2 | DQ2 | | Comp_of_IOR9A | True | x16 | G11 |
| BANK1 True LVDS Pair | | | | | | | | |
| IOT61A/GCLKT_2/TPLL_T_IN0 | I/O | 1 | DQS0/DQ0 | GCLKT_2/TPLL_T_IN0 | True_of_IOT61B | True | x16 | E7 |
| IOT61B/GCLKC_2 | I/O | 1 | DQS0/DQ0 | GCLKC_2 | Comp_of_IOT61A | True | x16 | E8 |
| IOT63A/GCLKT_3/RPLL0_T_IN0 | I/O | 1 | DQ0 | GCLKT_3/RPLL0_T_IN0 | True_of_IOT63B | True | x16 | E10 |
| IOT63B/GCLKC_3 | I/O | 1 | DQ0 | GCLKC_3 | Comp_of_IOT63A | True | x16 | C10 |
| IOT66A | I/O | 1 | DQ0 | | True_of_IOT66B | True | x16 | D8 |
| IOT66B | I/O | 1 | DQ0 | | Comp_of_IOT66A | True | x16 | C8 |
| IOT68A | I/O | 1 | DQ0 | | True_of_IOT68B | True | x16 | C11 |
| IOT68B | I/O | 1 | DQ0 | | Comp_of_IOT68A | True | x16 | A11 |
| IOT70A | I/O | 1 | DQ0 | | True_of_IOT70B | True | x16 | F9 |
| IOT70B | I/O | 1 | DQ0 | | Comp_of_IOT70A | True | x16 | D9 |
| IOT83A | I/O | 1 | DQ1 | | True_of_IOT83B | True | x16 | B12 |
| IOT83B | I/O | 1 | DQ1 | | Comp_of_IOT83A | True | x16 | A12 |
| IOT85A | I/O | 1 | DQ1 | | True_of_IOT85B | True | x16 | C13 |
| IOT85B | I/O | 1 | DQ1 | | Comp_of_IOT85A | True | x16 | A13 |
| IOT87A | I/O | 1 | none | | True_of_IOT87B | True | x16 | F10 |
| IOT87B | I/O | 1 | none | | Comp_of_IOT87A | True | x16 | E11 |
| IOT89A/RPLL0_T_FB1 | I/O | 1 | none | RPLL0_T_FB1 | True_of_IOT89B | True | x16 | B14 |
| IOT89B | I/O | 1 | none | | Comp_of_IOT89A | True | x16 | A14 |

| 注! | | | | | | | | |
|---------------------------|-----|------|------|--------------------|----------------|------|-----|----------------------|
| [1] LV版本封装。 | | | | | | | | |
| 管脚名称 | 功能 | BANK | DQS | 配置功能 | 差分Pair | LVDS | X16 | PG256 ^[1] |
| IOT91A/RPLL0_T_IN1 | I/O | 1 | none | RPLL0_T_IN1 | True_of_IOT91B | True | x16 | D11 |
| IOT91B/RPLL0_C_FB0 | I/O | 1 | none | RPLL0_C_FB0 | Comp_of_IOT91A | True | x16 | D12 |
| BANK0 True LVDS Pair | | | | | | | | |
| IOT29A/PUDC_B | I/O | 0 | none | PUDC_B | True_of_IOT29B | True | x16 | C4 |
| IOT29B | I/O | 0 | none | | Comp_of_IOT29A | True | x16 | A4 |
| IOT31A | I/O | 0 | none | | True_of_IOT31B | True | x16 | B5 |
| IOT31B | I/O | 0 | none | | Comp_of_IOT31A | True | x16 | A5 |
| IOT33A | I/O | 0 | none | | True_of_IOT33B | True | x16 | D5 |
| IOT33B | I/O | 0 | none | | Comp_of_IOT33A | True | x16 | C5 |
| IOT35A | I/O | 0 | none | | True_of_IOT35B | True | x16 | B6 |
| IOT35B | I/O | 0 | none | | Comp_of_IOT35A | True | x16 | A6 |
| IOT37A | I/O | 0 | none | | True_of_IOT37B | True | x16 | F7 |
| IOT37B | I/O | 0 | none | | Comp_of_IOT37A | True | x16 | E6 |
| IOT39A | I/O | 0 | none | | True_of_IOT39B | True | x16 | C7 |
| IOT39B | I/O | 0 | none | | Comp_of_IOT39A | True | x16 | A7 |
| IOT41A | I/O | 0 | none | | True_of_IOT41B | True | x16 | D6 |
| IOT41B | I/O | 0 | none | | Comp_of_IOT41A | True | x16 | C6 |
| IOT54A | I/O | 0 | none | | True_of_IOT54B | True | x16 | B8 |
| IOT54B | I/O | 0 | none | | Comp_of_IOT54A | True | x16 | A8 |
| IOT56A/GCLKT_0/TPLL_T_IN1 | I/O | 0 | none | GCLKT_0/TPLL_T_IN1 | True_of_IOT56B | True | x16 | C9 |
| IOT56B/GCLKC_0/TPLL_C_FB1 | I/O | 0 | none | GCLKC_0/TPLL_C_FB1 | Comp_of_IOT56A | True | x16 | A9 |
| IOT58A/GCLKT_1/TPLL_T_IN2 | I/O | 0 | none | GCLKT_1/TPLL_T_IN2 | True_of_IOT58B | True | x16 | B10 |
| IOT58B/GCLKC_1/TPLL_C_FB0 | I/O | 0 | none | GCLKC_1/TPLL_C_FB0 | Comp_of_IOT58A | True | x16 | A10 |