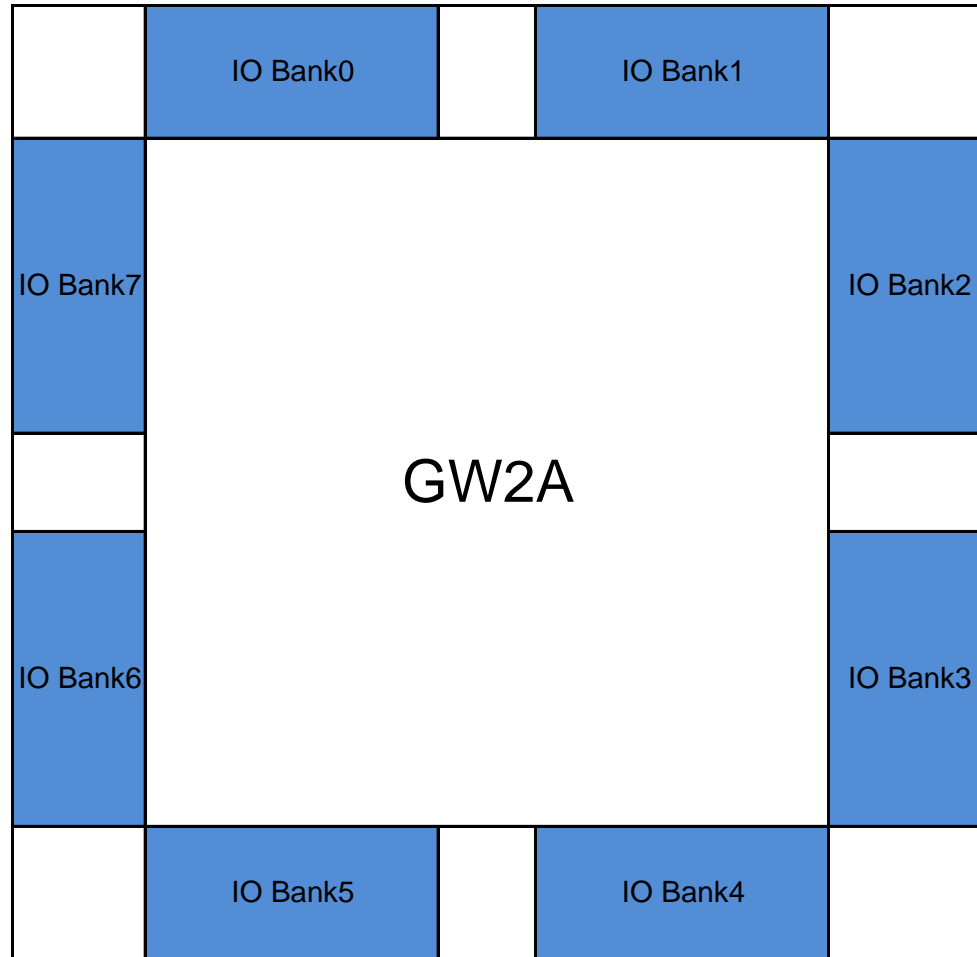


| 日期 | 版本 | 说明 |
|------------|-----|------------------------------------------------------------------------------|
| 2016/8/4 | 1.0 | 初始版本。 |
| 2019/12/10 | 1.1 | 新增PG256E封装。 |
| 2020/3/9 | 1.2 | 补充PG256C、UG324、PG256E封装中VCCPLLL、VCCPLLR和VCC的复用关系； 新增GW2A-18C器件。 |
| 2020/4/3 | 1.3 | 修改UG324封装R15,T9管脚位置； 修改UG324封装E7,E8管脚位置。 |
| 2021/7/16 | 1.4 | 修改PG256E封装的L11管脚位置； 修改PG256S封装P14,N10,R8,N7,R4管脚位置； 新增UG484、PG256CF封装。 |
| 2021/11/15 | 1.5 | 更新Pin Definitions。 新增PG256SF封装。 |

| 管脚名称 | 方向 | 说明 |
|--------------------------------------|----------|----------------------------------------------------------------------------------------------------------------------------|
| 用户I/O管脚 | | |
| IO [End][Row/Column Number][A/B] | I/O | [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 |
| 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時候，这些管脚可以用作用户I/O |
| D0 | I/O | CPU模式下的数据端口D0 |
| D1 | I/O | CPU模式下的数据端口D1 |
| D2 | I/O | CPU模式下的数据端口D2 |
| D3 | I/O | CPU模式下的数据端口D3 |
| D4 | I/O | CPU模式下的数据端口D4 |
| D5 | I/O | CPU模式下的数据端口D5 |
| D6 | I/O | CPU模式下的数据端口D6 |
| D7 | I/O | CPU模式下的数据端口D7 |
| WE_N | I | CPU模式下选择D[7: 0]的数据输入输出方向，"0"选择写入，"1"选择读出 |
| DOUT | O | SERIAL模式下的数据输出 |
| DIN | I, 内部弱上拉 | SERIAL模式下的数据输入 |
| 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 |
| JTAGSEL_N | I, 内部弱上拉 | 恢复JTAG下载功能信号 |
| RECONFIG_N | I | 全局复位GowinCONFIG逻辑信号，低电平有效 |
| FASTRD_N | I | 访问SPI FLASH方式选择信号，低电平表示Fast Read模式；高电平表示Read模式 |
| DONE ^[1] | O | 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 | 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] | I/O | 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 |
| MI | O | MSPI模式下MI |
| MO | I | MSPI模式下MO |

| 管脚名称 | 方向 | 说明 |
|------------------------------------|----------|------------------------------------------------------|
| MCS_N | O | MSPI模式下的使能信号MCS_N，低电平有效 |
| MCLK | O | MSPI模式下时钟输出MCLK，默认频率为 2.5Mhz |
| SCLK | I | SSPI, SERIAL, CPU模式下的时钟输入 |
| SO | O | SSPI模式下SO |
| SI | I/O | SSPI模式下SI |
| SSPI_CS_N | I/O | SSPI模式下的使能信号SSPI_CS_N，低电平有效，内部弱上拉 |
| CLKHOLD_N | I, 内部弱上拉 | 高电平表示SSPI模式和CPU模式操作有效 低电平表示SSPI模式和CPU模式操作无效 |
| GCLKC_[x] | I | GCLKT_[x]的差分对比输入管脚，C(Comp)，[x]是全局时钟序号 ^[2] |
| GCLKT_[x] | I | 全局时钟输入管脚，T(True)，[x]: 全局时钟序号 |
| LPLL_C_fb/RPLL_C_fb | I | 左边/右边PLL反馈输入管脚，C(Comp) |
| LPLL_T_fb/RPLL_T_fb | I | 左边/右边PLL反馈输入管脚，T(True) |
| LPLL_C_in/RPLL_C_in | I | 左边/右边PLL时钟输入管脚，C(Comp) |
| LPLL_T_in/RPLL_T_in | I | 左边/右边PLL时钟输入管脚，T(True) |
| MODE2 | I, 内部弱上拉 | GowinCONFIG配置模式选择信号端口；若该管脚未被封装出来，内部接地 |
| MODE1 | I, 内部弱上拉 | GowinCONFIG配置模式选择信号端口；若该管脚未被封装出来，内部接地 |
| MODE0 | I, 内部弱上拉 | GowinCONFIG配置模式选择信号端口；若该管脚未被封装出来，内部接地 |
| 其他管脚 | | |
| EXTR | NA | 外接10K 1%电阻到地 |
| NC | NA | 预留未使用 |
| VSS | NA | Ground管脚 |
| VCC | NA | 核电压供电管脚 |
| VCCO# | NA | I/O BANK#的I/O电压供电管脚 |
| VCCX | NA | 辅助电压供电管脚 |
| VCCPLLL0/1 | NA | 左边PLL0/1电压供电管脚，LQFP单独封装出来 |
| VCCPLLR0/1 | NA | 右边PLL0/1电压供电管脚，LQFP单独封装出来 |
| VCCPLLL | NA | PBGA封装：左边PLL0/1电压供电管脚简称 |
| VCCPLLR | NA | PBGA封装：右边PLL0/1电压供电管脚简称 |
| 注！ | | |
| [1]在芯片配置前及配置期间，需保持默认弱上拉，不可强驱动为“0”。 | | |
| [2]当输入是单端时,GCLKC_[x]所在管脚不是全局时钟管脚。 | | |



注!

- [1]每个Bank还提供一个独立的参考电压 (VREF) ;
- [2]用户可以选择使用IOB内置的VREF源 (等于 $0.5 \times VCC0$) ;
- [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) 。

注!
[1] UG324封装IOR30A, IOR30B共用T15管脚。
[2] Tie to VSS by 10K Resistor表示通过10K电阻下拉到地。

| 管脚名 | 功能 | DQS | BANK | 配置功能 | 差分Pair | LVDS | QN88 | LQ144 | EQ144 | MG196 | PG256 | PG256S | PG256C | UG324 | PG484 | PG256E | UG484 | PG256CF | PG256SF | |
|---------------------|--------|------|------|---------|----------------|------|--------------------------------|--------------------------------|--------------------------------|-------|--------------------------------|--------|--------|-------|---------------------------------|--------|-------|---------|---------|--|
| EXTR ^[2] | Ground | | N/A | | | | 47(Tie to VSS by 10K Resistor) | 75(Tie to VSS by 10K Resistor) | 75(Tie to VSS by 10K Resistor) | | L7(Tie to VSS by 10K Resistor) | | | | N17(Tie to VSS by 10K Resistor) | | | | | |
| IOB12A | I/O | DQ5 | 5 | | True_of_IOB12B | TRUE | | 44 | 44 | | E2 | P4 | N3 | D2 | | | V8 | N3 | P4 | |
| IOB12B | I/O | DQ5 | 5 | | Comp_of_IOB12A | TRUE | | 45 | 45 | | E3 | T4 | P3 | D1 | | | U8 | P3 | T4 | |
| IOB13A | I/O | DQ5 | 5 | | True_of_IOB13B | NONE | | | | | B3 | | | | AB1 | | W6 | | | |
| IOB13B | I/O | DQ5 | 5 | | Comp_of_IOB13A | NONE | | | | | A2 | | | | AB2 | | V7 | | | |
| IOB14A | I/O | DQ5 | 5 | | True_of_IOB14B | TRUE | 29 | 46 | 46 | | C1 | | R3 | F4 | Y6 | P12 | AA8 | R3 | | |
| IOB14B | I/O | DQ5 | 5 | | Comp_of_IOB14A | TRUE | 30 | 47 | 47 | | D2 | | T3 | F3 | AA6 | P11 | AB8 | T3 | | |
| IOB15A | I/O | DQ5 | 5 | | True_of_IOB15B | NONE | | | | | | | | | | | T10 | | | |
| IOB15B | I/O | DQ5 | 5 | | Comp_of_IOB15A | NONE | | | | | | | | | | | U10 | | | |
| IOB16A | I/O | DQ5 | 5 | | True_of_IOB16B | TRUE | | | | N12 | E1 | L8 | R4 | E3 | W7 | | AA6 | R4 | L8 | |
| IOB16B | I/O | DQ5 | 5 | | Comp_of_IOB16A | TRUE | | | | P12 | F2 | L7 | T4 | E1 | W8 | | AB6 | T4 | L7 | |
| IOB17A | I/O | DQ5 | 5 | | True_of_IOB17B | NONE | | 48 | 48 | | | | | | AB3 | T8 | V9 | | | |
| IOB17B | I/O | DQ5 | 5 | | Comp_of_IOB17A | NONE | | 49 | 49 | | | | | | AB4 | T7 | W8 | | | |
| IOB18A | I/O | DQ5 | 5 | | True_of_IOB18B | TRUE | 31 | | | | F4 | N5 | N5 | H6 | Y7 | | AA7 | N5 | N5 | |
| IOB18B | I/O | DQ5 | 5 | | Comp_of_IOB18A | TRUE | 32 | | | | G6 | P5 | N6 | H5 | Y8 | | AB7 | N6 | P5 | |
| IOB19A | I/O | DQ5 | 5 | | True_of_IOB19B | NONE | | | | | F3 | | | | V10 | P8 | Y8 | | | |
| IOB19B | I/O | DQ5 | 5 | | Comp_of_IOB19A | NONE | | | | | F1 | | | | V11 | P7 | W9 | | | |
| IOB20A | I/O | DQ5 | 5 | | True_of_IOB20B | TRUE | | 50 | 50 | N10 | G5 | R5 | M6 | F2 | W9 | | Y9 | M6 | R5 | |
| IOB20B | I/O | DQ5 | 5 | | Comp_of_IOB20A | TRUE | | 51 | 51 | P10 | G4 | T5 | P6 | F1 | Y9 | | Y10 | P6 | T5 | |
| IOB21A | I/O | DQS5 | 5 | | True_of_IOB21B | NONE | | | | | G2 | | M7 | J7 | AB5 | M9 | AA9 | M7 | | |
| IOB21B | I/O | DQS5 | 5 | | Comp_of_IOB21A | NONE | | | | | G3 | | K8 | J6 | AB6 | M8 | AB9 | K8 | | |
| IOB22A | I/O | DQ5 | 5 | | True_of_IOB22B | TRUE | | 52 | 52 | | F5 | P6 | R5 | G3 | AA7 | T5 | V10 | R5 | P6 | |
| IOB22B | I/O | DQ5 | 5 | | Comp_of_IOB22A | TRUE | | 54 | 54 | | H6 | T6 | T5 | G1 | AB7 | T6 | W10 | T5 | T6 | |
| IOB23A | I/O | DQ5 | 5 | | True_of_IOB23B | NONE | | | | | | | R7 | | AA8 | | T11 | R7 | | |
| IOB23B | I/O | DQ5 | 5 | | Comp_of_IOB23A | NONE | | | | | | | T7 | | AB8 | | U11 | T7 | | |
| IOB24A | I/O | DQ5 | 5 | | True_of_IOB24B | TRUE | 33 | | | L8 | G1 | R7 | R6 | L7 | W10 | | AA11 | R6 | R7 | |
| IOB24B | I/O | DQ5 | 5 | | Comp_of_IOB24A | TRUE | 34 | | | M8 | H2 | T7 | T6 | K6 | W11 | | AB11 | T6 | T7 | |
| IOB25A | I/O | DQ5 | 5 | | True_of_IOB25B | NONE | | | | | | | L7 | | AA11 | P5 | V11 | L7 | | |
| IOB25B | I/O | DQ5 | 5 | | Comp_of_IOB25A | NONE | | | | | | | | | AB11 | P6 | Y11 | | | |
| IOB26A | I/O | DQ5 | 5 | | True_of_IOB26B | TRUE | | | | | H4 | | L8 | H4 | Y10 | | AA10 | L8 | | |
| IOB26B | I/O | DQ5 | 5 | | Comp_of_IOB26A | TRUE | | | | | J6 | | M8 | H3 | Y11 | | AB10 | M8 | | |
| IOB27A/GCLKT_5 | I/O | DQ5 | 5 | GCLKT_5 | True_of_IOB27B | NONE | | | | N8 | J1 | P7 | N8 | L5 | AB9 | | U12 | N8 | P7 | |
| IOB27B/GCLKC_5 | I/O | DQ5 | 5 | GCLKC_5 | Comp_of_IOB27A | NONE | | | | P8 | J3 | M7 | P8 | K5 | AB10 | | V12 | P8 | M7 | |
| IOB2A | I/O | DQ4 | 5 | | True_of_IOB2B | TRUE | | | | | A4 | | | C2 | U6 | P9 | AA2 | | | |
| IOB2B | I/O | DQ4 | 5 | | Comp_of_IOB2A | TRUE | | | | | C5 | | | C1 | U7 | P10 | AB2 | | | |
| IOB30A/GCLKT_4 | I/O | DQ6 | 4 | GCLKT_4 | True_of_IOB30B | TRUE | 35 | 56 | 56 | N7 | L2 | P8 | R9 | L2 | AB12 | K15 | AB12 | R9 | P8 | |
| IOB30B/GCLKC_4 | I/O | DQ6 | 4 | GCLKC_4 | Comp_of_IOB30A | TRUE | 36 | 57 | 57 | P7 | M1 | T8 | T9 | L1 | AA12 | L15 | AA12 | T9 | T8 | |
| IOB31A | I/O | DQ6 | 4 | | True_of_IOB31B | NONE | | | | | | | | | Y12 | | Y12 | | | |
| IOB31B | I/O | DQ6 | 4 | | Comp_of_IOB31A | NONE | | | | | | | | | Y13 | | T12 | | | |
| IOB32A | I/O | DQ6 | 4 | | True_of_IOB32B | TRUE | | | | | H3 | | K9 | H2 | W12 | | V13 | K9 | | |
| IOB32B | I/O | DQ6 | 4 | | Comp_of_IOB32A | TRUE | | | | | H1 | | L9 | H1 | W13 | | U13 | L9 | | |
| IOB33A | I/O | DQ6 | 4 | | True_of_IOB33B | NONE | | 58 | 58 | | | | | K4 | AB13 | P16 | AB13 | | | |
| IOB33B | I/O | DQ6 | 4 | | Comp_of_IOB33A | NONE | | 59 | 59 | | | | | K3 | AB14 | P15 | AA13 | | | |
| IOB34A | I/O | DQ6 | 4 | | True_of_IOB34B | TRUE | 37 | 60 | 60 | N6 | J2 | M9 | M9 | J3 | AB15 | | Y13 | M9 | M9 | |
| IOB34B | I/O | DQ6 | 4 | | Comp_of_IOB34A | TRUE | 38 | 61 | 61 | P6 | K1 | N8 | N9 | J1 | AA15 | | W13 | N9 | N8 | |
| IOB35A | I/O | DQ6 | 4 | | True_of_IOB35B | NONE | | | | | H5 | | | | V12 | N14 | U14 | | | |
| IOB35B | I/O | DQ6 | 4 | | Comp_of_IOB35A | NONE | | | | | J4 | | | | V13 | M14 | V14 | | | |

注!
[1] UG324封装IOR30A, IOR30B共用T15管脚。
[2] Tie to VSS by 10K Resistor表示通过10K电阻下拉到地。

| 管脚名 | 功能 | DQS | BANK | 配置功能 | 差分Pair | LVDS | QN88 | LQ144 | EQ144 | MG196 | PG256 | PG256S | PG256C | UG324 | PG484 | PG256E | UG484 | PG256CF | PG256SF |
|--------|-----|------|------|------|----------------|------|------|-------|-------|-------|-------|--------|--------|-------|-------|--------|-------|---------|---------|
| IOB36A | I/O | DQ6 | 4 | | True_of_IOB36B | TRUE | | | | | K3 | R9 | R10 | K2 | AB16 | | T13 | R10 | R9 |
| IOB36B | I/O | DQ6 | 4 | | Comp_of_IOB36A | TRUE | | | | | K2 | T9 | T10 | K1 | AA16 | | T14 | T10 | T9 |
| IOB37A | I/O | DQS6 | 4 | | True_of_IOB37B | NONE | | | | N5 | J5 | | | L4 | Y14 | N16 | AB14 | | |
| IOB37B | I/O | DQS6 | 4 | | Comp_of_IOB37A | NONE | | | | P5 | K6 | | | L3 | Y15 | N15 | AA14 | | |
| IOB38A | I/O | DQ6 | 4 | | True_of_IOB38B | TRUE | | 62 | 62 | L4 | L1 | L10 | R11 | P2 | V14 | L16 | Y14 | R11 | L10 |
| IOB38B | I/O | DQ6 | 4 | | Comp_of_IOB38A | TRUE | | 63 | 63 | M4 | L3 | M10 | T11 | P1 | V15 | M16 | W14 | T11 | M10 |
| IOB39A | I/O | DQ6 | 4 | | True_of_IOB39B | NONE | | | | | K4 | | | | AB17 | | AB15 | | |
| IOB39B | I/O | DQ6 | 4 | | Comp_of_IOB39A | NONE | | | | | L5 | | | | AB18 | | AA15 | | |
| IOB3A | I/O | DQ4 | 5 | | True_of_IOB3B | NONE | | | | | D6 | | | | W5 | | V6 | | |
| IOB3B | I/O | DQ4 | 5 | | Comp_of_IOB3A | NONE | | | | | E7 | | | | W6 | | U6 | | |
| IOB40A | I/O | DQ6 | 4 | | True_of_IOB40B | TRUE | 39 | 64 | 64 | N4 | K5 | N9 | R12 | M3 | AA17 | | Y15 | R12 | N9 |
| IOB40B | I/O | DQ6 | 4 | | Comp_of_IOB40A | TRUE | 40 | 65 | 65 | P4 | L4 | P9 | T12 | M1 | Y17 | | W15 | T12 | P9 |
| IOB41A | I/O | DQ6 | 4 | | True_of_IOB41B | NONE | | | | | N2 | | | | W14 | | AB16 | | |
| IOB41B | I/O | DQ6 | 4 | | Comp_of_IOB41A | NONE | | | | | P1 | | | | W15 | | AA16 | | |
| IOB42A | I/O | DQ6 | 4 | | True_of_IOB42B | TRUE | | 66 | 66 | | M3 | | L10 | N2 | | | V15 | L10 | |
| IOB42B | I/O | DQ6 | 4 | | Comp_of_IOB42A | TRUE | 42 | 67 | 67 | | N1 | | K10 | N1 | | | U15 | K10 | |
| IOB43A | I/O | DQ6 | 4 | | True_of_IOB43B | NONE | 41 | | | N3 | M2 | | | | AB19 | J16 | AB17 | | |
| IOB43B | I/O | DQ6 | 4 | | Comp_of_IOB43A | NONE | | | | P3 | N3 | | | | AB20 | K16 | AA17 | | |
| IOB44A | I/O | DQ6 | 4 | | True_of_IOB44B | TRUE | | | | | R1 | | | T2 | Y16 | | Y17 | | |
| IOB44B | I/O | DQ6 | 4 | | Comp_of_IOB44A | TRUE | | | | | P2 | | | T1 | W16 | | V16 | | |
| IOB45A | I/O | DQ6 | 4 | | True_of_IOB45B | NONE | | | | | P4 | | P9 | | | | Y18 | P9 | |
| IOB45B | I/O | DQ6 | 4 | | Comp_of_IOB45A | NONE | | | | | T4 | | P11 | | | | W17 | P11 | |
| IOB48A | I/O | DQS7 | 4 | | True_of_IOB48B | TRUE | | 68 | 68 | | R3 | | R13 | U2 | Y19 | | AB18 | R13 | |
| IOB48B | I/O | DQS7 | 4 | | Comp_of_IOB48A | TRUE | | 69 | 69 | M12 | T2 | | T13 | U1 | Y18 | | AA18 | T13 | |
| IOB49A | I/O | DQ7 | 4 | | True_of_IOB49B | NONE | | | | | | | | | | R14 | AB19 | | |
| IOB49B | I/O | DQ7 | 4 | | Comp_of_IOB49A | NONE | | | | | | | | | | P14 | AA19 | | |
| IOB4A | I/O | DQ4 | 5 | | True_of_IOB4B | TRUE | | | | | A3 | M4 | | F6 | V6 | | AA3 | | M4 |
| IOB4B | I/O | DQ4 | 5 | | Comp_of_IOB4A | TRUE | | | | | B4 | M3 | | F5 | V7 | | AB3 | | M3 |
| IOB50A | I/O | DQ7 | 4 | | True_of_IOB50B | TRUE | | | | | P5 | | M10 | L6 | V16 | | T9 | M10 | |
| IOB50B | I/O | DQ7 | 4 | | Comp_of_IOB50A | TRUE | | | | | R5 | P11 | N11 | M5 | U16 | | U9 | N11 | P11 |
| IOB51A | I/O | DQ7 | 4 | | True_of_IOB51B | NONE | | | | | | | | | W17 | | T15 | | |
| IOB51B | I/O | DQ7 | 4 | | Comp_of_IOB51A | NONE | | | | | | | | | W18 | | U16 | | |
| IOB52A | I/O | DQ7 | 4 | | True_of_IOB52B | TRUE | | | | | R4 | N12 | T14 | P4 | | R16 | AB20 | T14 | N12 |
| IOB52B | I/O | DQ7 | 4 | | Comp_of_IOB52A | TRUE | | | | | T3 | P12 | T15 | P3 | | R15 | AA20 | T15 | P12 |
| IOB53A | I/O | DQ7 | 4 | | True_of_IOB53B | NONE | | 70 | 70 | | | | R14 | | AA20 | T15 | Y19 | R14 | |
| IOB53B | I/O | DQ7 | 4 | | Comp_of_IOB53A | NONE | | 71 | 71 | | | | | | Y20 | T14 | W18 | | |
| IOB54A | I/O | DQ7 | 4 | | True_of_IOB54B | TRUE | | | | | R6 | M12 | P14 | N4 | V17 | | AB21 | P14 | M12 |
| IOB54B | I/O | DQ7 | 4 | | Comp_of_IOB54A | TRUE | | | | | T5 | M11 | L11 | N3 | V18 | | AA21 | L11 | M11 |
| IOB55A | I/O | DQ7 | 4 | | True_of_IOB55B | NONE | | | | | | L11 | M11 | | W19 | | V17 | M11 | L11 |
| IOB55B | I/O | DQ7 | 4 | | Comp_of_IOB55A | NONE | | 72 | 72 | | | | N12 | | V19 | | T16 | N12 | |
| IOB5A | I/O | DQ4 | 5 | | True_of_IOB5B | NONE | | 38 | 38 | | | | | | | T9 | Y4 | | |
| IOB5B | I/O | DQ4 | 5 | | Comp_of_IOB5A | NONE | | 39 | 39 | | | | | | | T10 | W5 | | |
| IOB6A | I/O | DQ4 | 5 | | True_of_IOB6B | TRUE | 25 | 40 | 40 | | | | | E4 | Y4 | | U7 | | |
| IOB6B | I/O | DQ4 | 5 | | Comp_of_IOB6A | TRUE | 26 | 41 | 41 | | | | | D3 | Y5 | | T8 | | |
| IOB7A | I/O | DQ4 | 5 | | True_of_IOB7B | NONE | | 42 | 42 | | A5 | | | | V8 | | AA4 | | |
| IOB7B | I/O | DQ4 | 5 | | Comp_of_IOB7A | NONE | | 43 | 43 | | B6 | | | | V9 | | AB4 | | |
| IOB8A | I/O | DQ4 | 5 | | True_of_IOB8B | TRUE | 27 | | | | B1 | M6 | R8 | H7 | | T12 | AA5 | R8 | M6 |
| IOB8B | I/O | DQ4 | 5 | | Comp_of_IOB8A | TRUE | 28 | | | | C2 | N6 | T8 | G6 | | T11 | AB5 | T8 | N6 |
| IOB9A | I/O | DQS4 | 5 | | True_of_IOB9B | NONE | | | | | D3 | | T2 | | Y3 | | Y5 | T2 | |
| IOB9B | I/O | DQS4 | 5 | | Comp_of_IOB9A | NONE | | | | | D1 | | | | AA3 | | Y6 | | |

注!
[1] UG324封装IOR30A, IOR30B共用T15管脚。
[2] Tie to VSS by 10K Resistor表示通过10K电阻下拉到地。

| 管脚名 | 功能 | DQS | BANK | 配置功能 | 差分Pair | LVDS | QN88 | LQ144 | EQ144 | MG196 | PG256 | PG256S | PG256C | UG324 | PG484 | PG256E | UG484 | PG256CF | PG256SF |
|----------------|-----|------|------|---------|----------------|------|------|-------|-------|-------|-------|--------|--------|-------|-------|--------|-------|---------|---------|
| IOL11A | I/O | DQ1 | 7 | | True_of_IOL11B | TRUE | | | | | F10 | B2 | | B14 | C2 | F3 | E1 | | B2 |
| IOL11B | I/O | DQ1 | 7 | | Comp_of_IOL11A | TRUE | | | | | | A2 | | A14 | C1 | G3 | F1 | | A2 |
| IOL12A | I/O | DQ1 | 7 | | True_of_IOL12B | NONE | | | | | | | | | D1 | F2 | G3 | | |
| IOL12B | I/O | DQ1 | 7 | | Comp_of_IOL12A | NONE | | | | | | | | | E1 | F1 | G4 | | |
| IOL13A | I/O | DQ1 | 7 | | True_of_IOL13B | TRUE | | | | | B11 | G6 | | C13 | | | H4 | | G6 |
| IOL13B | I/O | DQ1 | 7 | | Comp_of_IOL13A | TRUE | | | | | A12 | G5 | | A13 | | | H3 | | G5 |
| IOL14A | I/O | DQ1 | 7 | | True_of_IOL14B | NONE | | | | | | | | D12 | F2 | G4 | G2 | | |
| IOL14B | I/O | DQ1 | 7 | | Comp_of_IOL14A | NONE | | | | | | | | C12 | G2 | H4 | G1 | | |
| IOL15A | I/O | DQ1 | 7 | | True_of_IOL15B | TRUE | | | | C1 | A11 | C1 | | B12 | F1 | | H2 | | C1 |
| IOL15B | I/O | DQ1 | 7 | | Comp_of_IOL15A | TRUE | | | | B1 | C11 | B1 | | A12 | G1 | | H1 | | B1 |
| IOL16A | I/O | DQ1 | 7 | | True_of_IOL16B | NONE | | | | | | | | | H4 | G2 | J7 | | |
| IOL16B | I/O | DQ1 | 7 | | Comp_of_IOL16A | NONE | | | | | | | | | J4 | H2 | J6 | | |
| IOL17A | I/O | DQ1 | 7 | | True_of_IOL17B | TRUE | | | | | D10 | D1 | | B11 | H3 | | H5 | | D1 |
| IOL17B | I/O | DQ1 | 7 | | Comp_of_IOL17A | TRUE | | | | | E10 | D3 | | A11 | J3 | | J5 | | D3 |
| IOL18A | I/O | DQ1 | 7 | | True_of_IOL18B | NONE | | | | | | | | | C3 | | H2 | | C3 |
| IOL18B | I/O | DQ1 | 7 | | Comp_of_IOL18A | NONE | | | | | | | | | C2 | | H1 | | C2 |
| IOL20A | I/O | DQ1 | 7 | | True_of_IOL20B | TRUE | | | | D4 | | K5 | F2 | G9 | J1 | | J2 | F2 | K5 |
| IOL20B | I/O | DQ1 | 7 | | Comp_of_IOL20A | TRUE | | | | D3 | | K6 | F1 | F9 | K1 | | J1 | F1 | K6 |
| IOL21A | I/O | DQ1 | 7 | | True_of_IOL21B | NONE | | | | | | | | | | | K5 | | |
| IOL21B | I/O | DQ1 | 7 | | Comp_of_IOL21A | NONE | | | | | | | | | | | L5 | | |
| IOL22A | I/O | DQS1 | 7 | | True_of_IOL22B | TRUE | | 9 | 9 | E2 | D11 | E2 | G2 | G11 | L2 | H3 | L7 | G2 | E2 |
| IOL22B | I/O | DQS1 | 7 | | Comp_of_IOL22A | TRUE | | 10 | 10 | E1 | | E1 | G1 | F10 | L1 | J3 | K5 | G1 | E1 |
| IOL23A | I/O | DQ1 | 7 | | True_of_IOL23B | NONE | | | | | | | | | | | K3 | | |
| IOL23B | I/O | DQ1 | 7 | | Comp_of_IOL23A | NONE | | | | | | | | | | | L3 | | |
| IOL24A | I/O | DQ1 | 7 | | True_of_IOL24B | TRUE | | | | F4 | | L4 | | C10 | K4 | | K2 | | L4 |
| IOL24B | I/O | DQ1 | 7 | | Comp_of_IOL24A | TRUE | | | | F3 | | L5 | | A10 | L4 | | K1 | | L5 |
| IOL25A | I/O | DQ1 | 7 | | True_of_IOL25B | NONE | | | | | | | | | F11 | M2 | | L6 | |
| IOL25B | I/O | DQ1 | 7 | | Comp_of_IOL25A | NONE | | | | | | | | | E11 | M1 | | L5 | |
| IOL26A | I/O | DQ1 | 7 | | True_of_IOL26B | TRUE | | | | F2 | | H4 | | D11 | P1 | | L1 | | H4 |
| IOL26B | I/O | DQ1 | 7 | | Comp_of_IOL26A | TRUE | | | | F1 | | H3 | | C11 | N1 | | M2 | | H3 |
| IOL27A/GCLKT_7 | I/O | DQ1 | 7 | GCLKT_7 | True_of_IOL27B | NONE | | 11 | 11 | H2 | A9 | J6 | E1 | B9 | R1 | G1 | L3 | E1 | J6 |
| IOL27B/GCLKC_7 | I/O | DQ1 | 7 | GCLKC_7 | Comp_of_IOL27A | NONE | | 12 | 12 | H1 | C9 | H5 | J3 | A9 | T1 | H1 | L4 | J3 | H5 |
| IOL29A/GCLKT_6 | I/O | DQ2 | 6 | GCLKT_6 | True_of_IOL29B | TRUE | 10 | 25 | 25 | G2 | C8 | K3 | M2 | D9 | M4 | K1 | M1 | M2 | K3 |
| IOL29B/GCLKC_6 | I/O | DQ2 | 6 | GCLKC_6 | Comp_of_IOL29A | TRUE | 11 | 26 | 26 | G1 | A8 | J4 | M1 | C9 | M3 | L1 | N1 | M1 | J4 |
| IOL2A | I/O | DQ0 | 7 | | True_of_IOL2B | TRUE | | 3 | 3 | | B14 | B3 | D1 | B16 | E5 | D1 | G7 | D1 | B3 |
| IOL2B | I/O | DQ0 | 7 | | Comp_of_IOL2A | TRUE | | 4 | 4 | | A15 | A3 | C2 | A16 | F5 | E1 | F6 | C2 | A3 |
| IOL30A | I/O | DQ2 | 6 | | True_of_IOL30B | NONE | | | | | | | | | U1 | J1 | N2 | | |
| IOL30B | I/O | DQ2 | 6 | | Comp_of_IOL30A | NONE | | | | | | | | | U2 | K2 | P1 | | |
| IOL31A | I/O | DQ2 | 6 | | True_of_IOL31B | TRUE | | | | J2 | F9 | F2 | J2 | B8 | N4 | | M6 | J2 | F2 |
| IOL31B | I/O | DQ2 | 6 | | Comp_of_IOL31A | TRUE | | | | J1 | E11 | F1 | J1 | A8 | N3 | | M5 | J1 | F1 |
| IOL32A | I/O | DQ2 | 6 | | True_of_IOL32B | NONE | | 23 | 23 | | | | | | M5 | L2 | N3 | | |
| IOL32B | I/O | DQ2 | 6 | | Comp_of_IOL32A | NONE | | 24 | 24 | | | | | | N5 | M2 | N4 | | |
| IOL33A | I/O | DQ2 | 6 | | True_of_IOL33B | TRUE | | 27 | 27 | J4 | B9 | G3 | K6 | D8 | T2 | M1 | P2 | K6 | G3 |
| IOL33B | I/O | DQ2 | 6 | | Comp_of_IOL33A | TRUE | | 28 | 28 | J3 | A10 | G1 | L6 | C8 | R2 | N1 | R1 | L6 | G1 |
| IOL34A | I/O | DQ2 | 6 | | True_of_IOL34B | NONE | | | | | | | | | V1 | | P3 | | |
| IOL34B | I/O | DQ2 | 6 | | Comp_of_IOL34A | NONE | | | | | | | | | W1 | | M7 | | |
| IOL35A | I/O | DQ2 | 6 | | True_of_IOL35B | TRUE | | | | K2 | F8 | | K2 | B6 | P3 | M3 | P4 | K2 | |
| IOL35B | I/O | DQ2 | 6 | | Comp_of_IOL35A | TRUE | | | | K1 | D9 | | K1 | A6 | R3 | N3 | N5 | K1 | |
| IOL36A | I/O | DQS2 | 6 | | True_of_IOL36B | NONE | | 29 | 29 | | | | H2 | L2 | E8 | P4 | L4 | N6 | H2 |
| IOL36B | I/O | DQS2 | 6 | | Comp_of_IOL36A | NONE | | 30 | 30 | | | | H1 | L1 | E7 | R4 | L5 | N7 | H1 |

注!
[1] UG324封装IOR30A, IOR30B共用T15管脚。
[2] Tie to VSS by 10K Resistor表示通过10K电阻下拉到地。

| 管脚名 | 功能 | DQS | BANK | 配置功能 | 差分Pair | LVDS | QN88 | LQ144 | EQ144 | MG196 | PG256 | PG256S | PG256C | UG324 | PG484 | PG256E | UG484 | PG256CF | PG256SF |
|-------------------|-----|------|------|------------|----------------|------|------|-------|-------|-------|-------|--------|--------|-------|-------|--------|-------|---------|---------|
| IOL38A | I/O | DQ2 | 6 | | True_of_IOL38B | TRUE | | | | | D8 | J3 | N2 | C7 | Y1 | | R2 | N2 | J3 |
| IOL38B | I/O | DQ2 | 6 | | Comp_of_IOL38A | TRUE | | | | | E9 | J1 | N1 | A7 | Y2 | | T1 | N1 | J1 |
| IOL39A | I/O | DQ2 | 6 | | True_of_IOL39B | NONE | | | | | | | | | T3 | P1 | P5 | | |
| IOL39B | I/O | DQ2 | 6 | | Comp_of_IOL39A | NONE | | | | | | | | U3 | R1 | P6 | | | |
| IOL3A | I/O | DQ0 | 7 | | True_of_IOL3B | NONE | | | | | | | | | B3 | E4 | D4 | | |
| IOL3B | I/O | DQ0 | 7 | | Comp_of_IOL3A | NONE | | | | | | | | | B2 | F4 | D3 | | |
| IOL40A | I/O | DQ2 | 6 | | True_of_IOL40B | TRUE | | | | | B7 | | K5 | G8 | | | T2 | K5 | |
| IOL40B | I/O | DQ2 | 6 | | Comp_of_IOL40A | TRUE | | | | | C7 | | L4 | F8 | | | U1 | L4 | |
| IOL41A | I/O | DQ2 | 6 | | True_of_IOL41B | NONE | | | | | | | | | | P2 | R3 | | |
| IOL41B | I/O | DQ2 | 6 | | Comp_of_IOL41A | NONE | | | | | | | | | | P3 | R4 | | |
| IOL42A | I/O | DQ2 | 6 | | True_of_IOL42B | TRUE | | 32 | 32 | | | | P2 | F7 | | | R5 | P2 | |
| IOL42B | I/O | DQ2 | 6 | | Comp_of_IOL42A | TRUE | | 33 | 33 | | | | P1 | E6 | | | P7 | P1 | |
| IOL43A | I/O | DQ2 | 6 | | True_of_IOL43B | NONE | | | | | | | | | | | R6 | | |
| IOL43B | I/O | DQ2 | 6 | | Comp_of_IOL43A | NONE | | | | | | | | | | | | | |
| IOL44A | I/O | DQ2 | 6 | | True_of_IOL44B | TRUE | | | | | | | | C5 | V3 | | T3 | | |
| IOL44B | I/O | DQ2 | 6 | | Comp_of_IOL44A | TRUE | | | | | | | | A5 | W3 | | T4 | | |
| IOL45A/LPLL2_T_in | I/O | DQ2 | 6 | LPLL2_T_in | True_of_IOL45B | NONE | 13 | 34 | 34 | L2 | F7 | K2 | L3 | B4 | AA1 | | R7 | L3 | K2 |
| IOL45B/LPLL2_C_in | I/O | DQ2 | 6 | LPLL2_C_in | Comp_of_IOL45A | NONE | | | | L1 | E8 | K1 | J6 | A4 | AA2 | | T5 | J6 | K1 |
| IOL47A/LPLL2_T_fb | I/O | DQ3 | 6 | LPLL2_T_fb | True_of_IOL47B | TRUE | 15 | | | M2 | C4 | R2 | R1 | B3 | P5 | | U2 | R1 | R2 |
| IOL47B/LPLL2_C_fb | I/O | DQ3 | 6 | LPLL2_C_fb | Comp_of_IOL47A | TRUE | 16 | | | M1 | B5 | R1 | | A3 | R5 | | V1 | | R1 |
| IOL48A | I/O | DQ3 | 6 | | True_of_IOL48B | NONE | | | | | | M2 | | D6 | T4 | T2 | W1 | | M2 |
| IOL48B | I/O | DQ3 | 6 | | Comp_of_IOL48A | NONE | | | | | | M1 | | C6 | U4 | T3 | W2 | | M1 |
| IOL49A | I/O | DQ3 | 6 | | True_of_IOL49B | TRUE | 17 | | | | | L3 | | | | | Y1 | | L3 |
| IOL49B | I/O | DQ3 | 6 | | Comp_of_IOL49A | TRUE | 18 | | | | | L1 | | | | | AA1 | | L1 |
| IOL4A | I/O | DQ0 | 7 | | True_of_IOL4B | TRUE | | | | | | F6 | F3 | | G6 | E3 | E4 | F3 | F6 |
| IOL4B | I/O | DQ0 | 7 | | Comp_of_IOL4A | TRUE | | | | | | F5 | F4 | | G5 | | F5 | F4 | F5 |
| IOL50A | I/O | DQS3 | 6 | | True_of_IOL50B | NONE | | | | | | N3 | | | V4 | | U3 | | N3 |
| IOL50B | I/O | DQS3 | 6 | | Comp_of_IOL50A | NONE | | | | | | N1 | | | W4 | | U4 | | N1 |
| IOL51A | I/O | DQ3 | 6 | | True_of_IOL51B | TRUE | 19 | | | | | P2 | | B2 | | R2 | W3 | | P2 |
| IOL51B | I/O | DQ3 | 6 | | Comp_of_IOL51A | TRUE | 20 | | | | | P1 | | A2 | | R3 | Y2 | | P1 |
| IOL52A | I/O | DQ3 | 6 | | True_of_IOL52B | NONE | | | | | | | | | | | V4 | | |
| IOL52B | I/O | DQ3 | 6 | | Comp_of_IOL52A | NONE | | | | | | | | | | | U5 | | |
| IOL53A | I/O | DQ3 | 6 | | True_of_IOL53B | TRUE | | | | | E6 | M5 | | D4 | V5 | | Y3 | | M5 |
| IOL53B | I/O | DQ3 | 6 | | Comp_of_IOL53A | TRUE | | | | | D7 | N4 | | C4 | U5 | | W4 | | N4 |
| IOL54A | I/O | DQ3 | 6 | | True_of_IOL54B | NONE | | | | | | | | | T5 | | V5 | | |
| IOL54B | I/O | DQ3 | 6 | | Comp_of_IOL54A | NONE | | | | | | | | | T6 | | T7 | | |
| IOL5A | I/O | DQ0 | 7 | | True_of_IOL5B | NONE | | | | | | | | | D3 | D3 | G6 | | |
| IOL5B | I/O | DQ0 | 7 | | Comp_of_IOL5A | NONE | | | | | | | | | C3 | D2 | H7 | | |
| IOL6A | I/O | DQS0 | 7 | | True_of_IOL6B | TRUE | | | | | | E4 | B1 | D14 | E4 | | C1 | B1 | E4 |
| IOL6B | I/O | DQS0 | 7 | | Comp_of_IOL6A | TRUE | | | | | | E3 | | C14 | E3 | | D2 | | E3 |
| IOL7A/LPLL1_T_in | I/O | DQ0 | 7 | LPLL1_T_in | True_of_IOL7B | NONE | 4 | 6 | 6 | D2 | C12 | F4 | F5 | C15 | F4 | K3 | G5 | F5 | F4 |
| IOL7B/LPLL1_C_in | I/O | DQ0 | 7 | LPLL1_C_in | Comp_of_IOL7A | NONE | | 7 | 7 | D1 | B12 | F3 | G5 | A15 | G4 | L3 | H6 | G5 | F3 |
| IOL8A/LPLL1_T_fb | I/O | DQ0 | 7 | LPLL1_T_fb | True_of_IOL8B | TRUE | | | | | B13 | | D4 | F13 | F3 | J4 | D1 | D4 | |
| IOL8B/LPLL1_C_fb | I/O | DQ0 | 7 | LPLL1_C_fb | Comp_of_IOL8A | TRUE | | | | | A14 | | E5 | E13 | G3 | K4 | E2 | E5 | |
| IOL9A | I/O | DQ0 | 7 | | True_of_IOL9B | NONE | | | | | | | | F12 | H5 | | E3 | | |
| IOL9B | I/O | DQ0 | 7 | | Comp_of_IOL9A | NONE | | | | | | | | E12 | J5 | | | | |
| IOR11A | I/O | DQ10 | 2 | | True_of_IOR11B | TRUE | | | | | R12 | F13 | D15 | U11 | G19 | | | D15 | F13 |
| IOR11B | I/O | DQ10 | 2 | | Comp_of_IOR11A | TRUE | | | | | P13 | F14 | D16 | V11 | G20 | | G20 | D16 | F14 |
| IOR12A | I/O | DQ10 | 2 | | True_of_IOR12B | NONE | | | | | | | | | F20 | | G19 | | |
| IOR12B | I/O | DQ10 | 2 | | Comp_of_IOR12A | NONE | | | | | | | | | F21 | | G18 | | |

| 管脚名 | 功能 | DQS | BANK | 配置功能 | 差分Pair | LVDS | QN88 | LQ144 | EQ144 | MG196 | PG256 | PG256S | PG256C | UG324 | PG484 | PG256E | UG484 | PG256CF | PG256SF |
|----------------------|-----|-------|------|---------------|----------------|------|------|-------|-------|-------|-------|--------|--------|--------------------|-------|--------|-------|---------|---------|
| IOR13A | I/O | DQ10 | 2 | | True_of_IOR13B | TRUE | | | | | C12 | C15 | F13 | R11 | | | H22 | F13 | C15 |
| IOR13B | I/O | DQ10 | 2 | | Comp_of_IOR13A | TRUE | | | | | C13 | C16 | F14 | T11 | | | H21 | F14 | C16 |
| IOR14A | I/O | DQ10 | 2 | | True_of_IOR14B | NONE | | | | | | | | | C22 | | G17 | | |
| IOR14B | I/O | DQ10 | 2 | | Comp_of_IOR14A | NONE | | | | | | | | | D22 | | H20 | | |
| IOR15A | I/O | DQ10 | 2 | | True_of_IOR15B | TRUE | | | | | | E15 | | | | | H20 | H19 | E15 |
| IOR15B | I/O | DQ10 | 2 | | Comp_of_IOR15A | TRUE | | | | | | E16 | | | | | H21 | H18 | E16 |
| IOR16A | I/O | DQ10 | 2 | | True_of_IOR16B | NONE | | | | | | | | | J19 | | H17 | | |
| IOR16B | I/O | DQ10 | 2 | | Comp_of_IOR16A | NONE | | | | | | | | | J20 | | H16 | | |
| IOR17A | I/O | DQ10 | 2 | | True_of_IOR17B | TRUE | | | | E13 | R11 | F15 | | T12 | | | F22 | H18 | F15 |
| IOR17B | I/O | DQ10 | 2 | | Comp_of_IOR17A | TRUE | | | | E14 | T12 | F16 | | V12 | | | E22 | J19 | F16 |
| IOR18A | I/O | DQ10 | 2 | | True_of_IOR18B | NONE | | | | | | | | | | | G21 | J21 | |
| IOR18B | I/O | DQ10 | 2 | | Comp_of_IOR18A | NONE | | | | | | | | | | | G22 | J22 | |
| IOR20A | I/O | DQ10 | 2 | | True_of_IOR20B | TRUE | | 102 | 102 | | R13 | G14 | | N10 | | | H22 | J16 | G14 |
| IOR20B | I/O | DQ10 | 2 | | Comp_of_IOR20A | TRUE | | 101 | 101 | | T14 | G16 | | P11 | | | J22 | J17 | G16 |
| IOR21A | I/O | DQ10 | 2 | | True_of_IOR21B | NONE | | | | | | | | M11 | | H16 | J20 | | |
| IOR21B | I/O | DQ10 | 2 | | Comp_of_IOR21A | NONE | | | | | | | | N11 | | L22 | J15 | K20 | |
| IOR22A | I/O | DQS10 | 2 | | True_of_IOR22B | TRUE | | 100 | 100 | F11 | M10 | H15 | B16 | M10 | K19 | | K19 | B16 | H15 |
| IOR22B | I/O | DQS10 | 2 | | Comp_of_IOR22A | TRUE | | 99 | 99 | F12 | N11 | H16 | | N9 | | | L19 | K18 | H16 |
| IOR23A | I/O | DQ10 | 2 | | True_of_IOR23B | NONE | | | | | | H13 | | | | | K20 | L17 | H13 |
| IOR23B | I/O | DQ10 | 2 | | Comp_of_IOR23A | NONE | | | | | | H14 | | | | | L20 | L16 | H14 |
| IOR24A | I/O | DQ10 | 2 | | True_of_IOR24B | TRUE | | | | G13 | T11 | G12 | F15 | R10 | | L21 | J13 | K17 | F15 |
| IOR24B | I/O | DQ10 | 2 | | Comp_of_IOR24A | TRUE | | | | G14 | P11 | H11 | F16 | T10 | | M21 | J14 | K16 | F16 |
| IOR25A/TDO | I/O | DQ10 | 2 | TDO | True_of_IOR25B | NONE | 8 | 18 | 18 | C14 | C6 | E14 | J4 | D16 | M22 | C2 | L19 | J4 | E14 |
| IOR25B/TMS | I/O | DQ10 | 2 | TMS | Comp_of_IOR25A | NONE | 5 | 13 | 13 | B14 | B8 | A15 | J5 | B18 | N22 | B2 | K22 | J5 | A15 |
| IOR26A/TCK | I/O | DQ10 | 2 | TCK | True_of_IOR26B | TRUE | 6 | 14 | 14 | B13 | A7 | C14 | H3 | A17 | N20 | B1 | L20 | H3 | C14 |
| IOR26B/TDI | I/O | DQ10 | 2 | TDI | Comp_of_IOR26A | TRUE | 7 | 16 | 16 | A13 | A6 | C12 | H4 | D15 | M20 | C1 | L21 | H4 | C12 |
| IOR27A/GCLKT_2 | I/O | DQ10 | 2 | GCLKT_2 | True_of_IOR27B | NONE | | 98 | 98 | F13 | N10 | J11 | E15 | U10 | M19 | K13 | L22 | E15 | J11 |
| IOR27B/GCLKC_2 | I/O | DQ10 | 2 | GCLKC_2 | Comp_of_IOR27A | NONE | | 97 | 97 | F14 | M11 | J12 | E16 | V10 | N19 | L13 | M17 | E16 | J12 |
| IOR29A/GCLKT_3 | I/O | DQ9 | 3 | GCLKT_3 | True_of_IOR29B | TRUE | 63 | | | H13 | T7 | J13 | M15 | R8 | P22 | | M22 | M15 | J13 |
| IOR29B/GCLKC_3 | I/O | DQ9 | 3 | GCLKC_3 | Comp_of_IOR29A | TRUE | | | | H14 | R8 | K14 | M16 | T8 | R22 | | M21 | M16 | K14 |
| IOR2A | I/O | DQ11 | 2 | | True_of_IOR2B | TRUE | | | | | | E13 | | U16 | F18 | | C22 | | E13 |
| IOR2B | I/O | DQ11 | 2 | | Comp_of_IOR2A | TRUE | | | | | | E12 | | V16 | F19 | | G16 | | E12 |
| IOR30A/MODE0 | I/O | DQ9 | 3 | MODE0 | True_of_IOR30B | NONE | 88 | 144 | 144 | N9 | M16 | T11 | H13 | T15 ^[1] | T22 | | M20 | H13 | T11 |
| IOR30B/MODE1 | I/O | DQ9 | 3 | MODE1 | Comp_of_IOR30A | NONE | 87 | 142 | 142 | P13 | B16 | N11 | H12 | T15 ^[1] | U22 | | N22 | H12 | |
| IOR31A/MODE2 | I/O | DQ9 | 3 | MODE2 | True_of_IOR31B | TRUE | | 143 | 143 | | C15 | | G12 | N12 | U21 | | M19 | G12 | N11 |
| IOR31B/RECONFIG_N | I/O | DQ9 | 3 | RECONFIG_N | Comp_of_IOR31A | TRUE | 9 | 20 | 20 | N1 | B10 | T2 | H5 | V2 | T21 | C15 | P21 | H5 | T2 |
| IOR32A/READY | I/O | DQ9 | 3 | READY | True_of_IOR32B | NONE | | 22 | 22 | N2 | A13 | R3 | G16 | U3 | L18 | D14 | M16 | G16 | R3 |
| IOR32B/DONE | I/O | DQ9 | 3 | DONE | Comp_of_IOR32A | NONE | | 21 | 21 | N14 | C13 | P13 | H14 | V17 | M18 | E12 | N16 | H14 | P13 |
| IOR33A/MI/D7 | I/O | DQ9 | 3 | MI/D7 | True_of_IOR33B | TRUE | 62 | 96 | 96 | N11 | P10 | P10 | H2 | R13 | P19 | H13 | N17 | | |
| IOR33B/MO/D6 | I/O | DQ9 | 3 | MO/D6 | Comp_of_IOR33A | TRUE | 61 | 95 | 95 | P11 | R10 | T10 | C1 | T13 | P20 | H14 | N18 | | |
| IOR34A/MCS_N/D5 | I/O | DQ9 | 3 | MCS_N/D5 | True_of_IOR34B | NONE | 60 | 94 | 94 | P2 | M9 | T3 | D2 | V3 | N18 | D16 | N20 | | |
| IOR34B/MCLK/D4 | I/O | DQ9 | 3 | MCLK/D4 | Comp_of_IOR34A | NONE | 59 | 93 | 93 | N13 | L10 | R11 | H1 | R15 | P18 | E15 | N19 | | |
| IOR35A/FASTRD_N/D3 | I/O | DQ9 | 3 | FASTRD_N/D3 | True_of_IOR35B | TRUE | 57 | 92 | 92 | P9 | R9 | K12 | G15 | T9 | R20 | F14 | R22 | | |
| IOR35B/SI/D2 | I/O | DQ9 | 3 | SI/D2 | Comp_of_IOR35A | TRUE | | 90 | 90 | L12 | T10 | K11 | | V9 | R21 | | R21 | D2 | |
| IOR36A/SO/D1 | I/O | DQS9 | 3 | SO/D1 | True_of_IOR36B | NONE | 56 | 88 | 88 | H11 | M8 | N14 | K11 | M8 | V22 | E13 | P22 | G15 | |
| IOR36B/SSPI_CS_N/D0 | I/O | DQS9 | 3 | SSPI_CS_N/D0 | Comp_of_IOR36A | NONE | 55 | 87 | 87 | H12 | N9 | N16 | | N8 | W22 | F13 | P20 | K11 | |
| IOR38A/DIN/CLKHOLD_N | I/O | DQ9 | 3 | DIN/CLKHOLD_N | True_of_IOR38B | TRUE | 54 | 86 | 86 | J13 | T9 | J14 | | U8 | T20 | G14 | T22 | H2 | P10 |

注!
[1] UG324封装IOR30A, IOR30B共用T15管脚。
[2] Tie to VSS by 10K Resistor表示通过10K电阻下拉到地。

| 管脚名 | 功能 | DQS | BANK | 配置功能 | 差分Pair | LVDS | QN88 | LQ144 | EQ144 | MG196 | PG256 | PG256S | PG256C | UG324 | PG484 | PG256E | UG484 | PG256CF | PG256SF |
|-------------------|-----|-------|------|------------|----------------|------|------|-------|-------|-------|-------|--------|--------|-------|-------|--------|-------|---------|---------|
| IOR38B/DOUT/WE_N | I/O | DQ9 | 3 | DOUT/WE_N | Comp_of_IOR38A | TRUE | 53 | 85 | 85 | J14 | P9 | J16 | | V8 | U20 | G13 | T21 | C1 | T10 |
| IOR39A/SCLK | I/O | DQ9 | 3 | SCLK | True_of_IOR39B | NONE | 52 | 15 | 15 | | C10 | | | P12 | T19 | D13 | P19 | H1 | R11 |
| IOR39B | I/O | DQ9 | 3 | | Comp_of_IOR39A | NONE | | | | | | | | P13 | R19 | | P18 | | K12 |
| IOR3A | I/O | DQ11 | 2 | | True_of_IOR3B | NONE | | | | | | | | E19 | | | F17 | | |
| IOR3B | I/O | DQ11 | 2 | | Comp_of_IOR3A | NONE | | | | | | | | E20 | | | C21 | | |
| IOR40A | I/O | DQ9 | 3 | | True_of_IOR40B | TRUE | | | | J11 | N8 | K15 | | U7 | | B16 | P17 | | T3 |
| IOR40B | I/O | DQ9 | 3 | | Comp_of_IOR40A | TRUE | | | | J12 | L9 | K16 | | V7 | | | P16 | | K11 |
| IOR41A | I/O | DQ9 | 3 | | True_of_IOR41B | NONE | | | | | | | | N7 | | A12 | U22 | | N14 |
| IOR41B | I/O | DQ9 | 3 | | Comp_of_IOR41A | NONE | | | | | | | | P8 | | A13 | U21 | | N16 |
| IOR42A | I/O | DQ9 | 3 | | True_of_IOR42B | TRUE | | 84 | 84 | K13 | P8 | M15 | K12 | T6 | | | V22 | K12 | M15 |
| IOR42B | I/O | DQ9 | 3 | | Comp_of_IOR42A | TRUE | | 83 | 83 | K14 | T8 | M16 | L12 | V6 | | | W22 | L12 | M16 |
| IOR43A | I/O | DQ9 | 3 | | True_of_IOR43B | NONE | | | | | | | | | | C12 | R20 | | J14 |
| IOR43B | I/O | DQ9 | 3 | | Comp_of_IOR43A | NONE | | | | | | | | | | C13 | R19 | | J16 |
| IOR44A | I/O | DQ9 | 3 | | True_of_IOR44B | TRUE | | | | L13 | M6 | L14 | M12 | R7 | Y22 | | R18 | M12 | K15 |
| IOR44B | I/O | DQ9 | 3 | | Comp_of_IOR44A | TRUE | | | | L14 | L8 | L16 | N13 | T7 | AA22 | | | N13 | K16 |
| IOR45A/RPLL2_T_in | I/O | DQ9 | 3 | RPLL2_T_in | True_of_IOR45B | NONE | 51 | 82 | 82 | M13 | | M13 | J15 | U5 | R18 | E14 | R16 | J15 | L14 |
| IOR45B/RPLL2_C_in | I/O | DQ9 | 3 | RPLL2_C_in | Comp_of_IOR45A | NONE | | | | M14 | | M14 | J16 | V5 | T18 | | R17 | J16 | L16 |
| IOR47A/RPLL2_T_fb | I/O | DQ8 | 3 | RPLL2_T_fb | True_of_IOR47B | TRUE | | | | | M7 | R15 | J12 | R3 | Y21 | C16 | T19 | J12 | M13 |
| IOR47B/RPLL2_C_fb | I/O | DQ8 | 3 | RPLL2_C_fb | Comp_of_IOR47A | TRUE | | | | | N7 | R16 | J14 | T3 | AA21 | | T18 | J14 | M14 |
| IOR48A | I/O | DQ8 | 3 | | True_of_IOR48B | NONE | | | | | | | J13 | N6 | W20 | E16 | Y22 | J13 | R15 |
| IOR48B | I/O | DQ8 | 3 | | Comp_of_IOR48A | NONE | | | | | | | J11 | P7 | V20 | G15 | W21 | J11 | R16 |
| IOR49A | I/O | DQ8 | 3 | | True_of_IOR49B | TRUE | 49 | 80 | 80 | | R7 | | L15 | | | F16 | T17 | L15 | |
| IOR49B | I/O | DQ8 | 3 | | Comp_of_IOR49A | TRUE | 48 | 79 | 79 | | P7 | | L16 | | | F15 | U20 | L16 | |
| IOR4A | I/O | DQ11 | 2 | | True_of_IOR4B | TRUE | | | | | | | B15 | U15 | G17 | | D22 | | B15 |
| IOR4B | I/O | DQ11 | 2 | | Comp_of_IOR4A | TRUE | | | | | | | B16 | V15 | G18 | | D21 | | B16 |
| IOR50A | I/O | DQS8 | 3 | | True_of_IOR50B | NONE | | 78 | 78 | | | R14 | K15 | R5 | AB22 | G16 | AA22 | K15 | R14 |
| IOR50B | I/O | DQS8 | 3 | | Comp_of_IOR50A | NONE | | 76 | 76 | | | | T15 | K16 | T5 | AB21 | Y21 | K16 | T15 |
| IOR51A | I/O | DQ8 | 3 | | True_of_IOR51B | TRUE | | | | | N6 | T14 | N15 | N5 | | B15 | U19 | N15 | T14 |
| IOR51B | I/O | DQ8 | 3 | | Comp_of_IOR51A | TRUE | | | | | | T13 | N16 | P6 | | C14 | U18 | N16 | T13 |
| IOR52A | I/O | DQ8 | 3 | | True_of_IOR52B | NONE | | | | | | L12 | L13 | | | A14 | U17 | L13 | L12 |
| IOR52B | I/O | DQ8 | 3 | | Comp_of_IOR52A | NONE | | | | | | L13 | L14 | | | A15 | V19 | L14 | L13 |
| IOR53A | I/O | DQ8 | 3 | | True_of_IOR53B | TRUE | | | | | P6 | R12 | R16 | T4 | T17 | | V18 | R16 | R12 |
| IOR53B | I/O | DQ8 | 3 | | Comp_of_IOR53A | TRUE | | | | | T6 | T12 | P16 | V4 | U17 | | W20 | P16 | T12 |
| IOR54A | I/O | DQ8 | 3 | | True_of_IOR54B | NONE | | | | | | P15 | P15 | | U19 | B13 | W19 | P15 | P15 |
| IOR54B | I/O | DQ8 | 3 | | Comp_of_IOR54A | NONE | | | | | | P16 | N14 | | U18 | B14 | Y20 | N14 | P16 |
| IOR5A | I/O | DQ11 | 2 | | True_of_IOR5B | NONE | | | | | | | | | H19 | | D19 | | |
| IOR5B | I/O | DQ11 | 2 | | Comp_of_IOR5A | NONE | | | | | | | | | H18 | | D20 | | |
| IOR6A | I/O | DQS11 | 2 | | True_of_IOR6B | TRUE | | | | | | F12 | C15 | | D19 | | E22 | C15 | F12 |
| IOR6B | I/O | DQS11 | 2 | | Comp_of_IOR6A | TRUE | | | | | | G11 | C16 | | D20 | | E21 | C16 | G11 |
| IOR7A/RPLL1_T_in | I/O | DQ11 | 2 | RPLL1_T_in | True_of_IOR7B | NONE | | 106 | 106 | D13 | T15 | D14 | G11 | T14 | B20 | K14 | F22 | G11 | D14 |
| IOR7B/RPLL1_C_in | I/O | DQ11 | 2 | RPLL1_C_in | Comp_of_IOR7A | NONE | | 105 | 105 | D14 | R14 | D16 | | V14 | C20 | L14 | G22 | | D16 |
| IOR8A/RPLL1_T_fb | I/O | DQ11 | 2 | RPLL1_T_fb | True_of_IOR8B | TRUE | | | | | P12 | | | U13 | B21 | | E19 | | |
| IOR8B/RPLL1_C_fb | I/O | DQ11 | 2 | RPLL1_C_fb | Comp_of_IOR8A | TRUE | | | | | T13 | | | V13 | C21 | | E20 | | |
| IOR9A | I/O | DQ11 | 2 | | True_of_IOR9B | NONE | | | | | | | | | J18 | | F18 | | |
| IOR9B | I/O | DQ11 | 2 | | Comp_of_IOR9A | NONE | | | | | | | | | K18 | | F19 | | |
| IOT12A | I/O | DQ14 | 0 | | True_of_IOT12B | TRUE | | 134 | 134 | | F12 | B6 | | H12 | | | B5 | | B6 |
| IOT12B | I/O | DQ14 | 0 | | Comp_of_IOT12A | TRUE | | 133 | 133 | | G13 | A6 | | G13 | | | A6 | | A6 |
| IOT13A | I/O | DQ14 | 0 | | True_of_IOT13B | NONE | | | | | G15 | | | | D7 | | D6 | | |
| IOT13B | I/O | DQ14 | 0 | | Comp_of_IOT13A | NONE | | | | | G14 | | | | D8 | | E7 | | |
| IOT14A | I/O | DQ14 | 0 | | True_of_IOT14B | TRUE | | 132 | 132 | | G11 | F7 | | E16 | A2 | | B6 | | F7 |

注!
[1] UG324封装IOR30A, IOR30B共用T15管脚。
[2] Tie to VSS by 10K Resistor表示通过10K电阻下拉到地。

| 管脚名 | 功能 | DQS | BANK | 配置功能 | 差分Pair | LVDS | QN88 | LQ144 | EQ144 | MG196 | PG256 | PG256S | PG256C | UG324 | PG484 | PG256E | UG484 | PG256CF | PG256SF |
|----------------|-----|-------|------|---------|----------------|------|------|-------|-------|-------|-------|--------|--------|-------|-------|--------|-------|---------|---------|
| IOT14B | I/O | DQ14 | 0 | | Comp_of_IOT14A | TRUE | | 131 | 131 | | H12 | E6 | A5 | E18 | A3 | | A7 | A5 | E6 |
| IOT15A | I/O | DQ14 | 0 | | True_of_IOT15B | NONE | | | | | | | | | | | C6 | | |
| IOT15B | I/O | DQ14 | 0 | | Comp_of_IOT15A | NONE | | | | | | | | | | | D7 | | |
| IOT16A | I/O | DQ14 | 0 | | True_of_IOT16B | TRUE | | | | B2 | G16 | C7 | E6 | K12 | C7 | | C8 | E6 | C7 |
| IOT16B | I/O | DQ14 | 0 | | Comp_of_IOT16A | TRUE | | | | A2 | H15 | A7 | E7 | K13 | C8 | | D8 | E7 | A7 |
| IOT17A | I/O | DQ14 | 0 | | True_of_IOT17B | NONE | 82 | 130 | 130 | | | | | | A4 | | E8 | | |
| IOT17B | I/O | DQ14 | 0 | | Comp_of_IOT17A | NONE | 81 | 129 | 129 | | | | | | A5 | | E9 | | |
| IOT18A | I/O | DQ14 | 0 | | True_of_IOT18B | TRUE | | | | B3 | H13 | D6 | B4 | F17 | B6 | | B8 | B4 | D6 |
| IOT18B | I/O | DQ14 | 0 | | Comp_of_IOT18A | TRUE | | | | A3 | J12 | C6 | A4 | F18 | A6 | | A8 | A4 | C6 |
| IOT19A | I/O | DQ14 | 0 | | True_of_IOT19B | NONE | | 128 | 128 | | | | | | E8 | | C9 | | |
| IOT19B | I/O | DQ14 | 0 | | Comp_of_IOT19A | NONE | | | | | | | | | E9 | | D9 | | |
| IOT20A | I/O | DQ14 | 0 | | True_of_IOT20B | TRUE | | | | | H14 | | B5 | H13 | D9 | | F9 | B5 | |
| IOT20B | I/O | DQ14 | 0 | | Comp_of_IOT20A | TRUE | | | | | H16 | | A2 | H14 | D10 | | G9 | A2 | |
| IOT21A | I/O | DQS14 | 0 | | True_of_IOT21B | NONE | | | | B4 | | | B6 | H15 | B7 | D7 | B9 | B6 | |
| IOT21B | I/O | DQS14 | 0 | | Comp_of_IOT21A | NONE | | | | A4 | | | A6 | H16 | A7 | D8 | A9 | A6 | |
| IOT22A | I/O | DQ14 | 0 | | True_of_IOT22B | TRUE | | 125 | 125 | B5 | J16 | B8 | | G16 | C9 | | F10 | | B8 |
| IOT22B | I/O | DQ14 | 0 | | Comp_of_IOT22A | TRUE | | | | A5 | J14 | A8 | | G18 | C10 | | E10 | | A8 |
| IOT23A | I/O | DQ14 | 0 | | True_of_IOT23B | NONE | | 126 | 126 | | | | B7 | | B8 | A8 | D10 | B7 | |
| IOT23B | I/O | DQ14 | 0 | | Comp_of_IOT23A | NONE | | 124 | 124 | | | | A7 | | A8 | A9 | C10 | A7 | |
| IOT24A | I/O | DQ14 | 0 | | True_of_IOT24B | TRUE | | | | B6 | J15 | C9 | F8 | J13 | A9 | B7 | B10 | F8 | C9 |
| IOT24B | I/O | DQ14 | 0 | | Comp_of_IOT24A | TRUE | | | | A6 | K16 | A9 | E8 | K14 | A10 | A7 | A10 | E8 | A9 |
| IOT25A | I/O | DQ14 | 0 | | True_of_IOT25B | NONE | | | | | | | C8 | | E10 | B6 | G11 | C8 | |
| IOT25B | I/O | DQ14 | 0 | | Comp_of_IOT25A | NONE | | | | | | | | | E11 | A6 | F11 | | |
| IOT26A | I/O | DQ14 | 0 | | True_of_IOT26B | TRUE | | | | | | | B8 | L12 | A11 | C6 | B11 | B8 | |
| IOT26B | I/O | DQ14 | 0 | | Comp_of_IOT26A | TRUE | | | | | | | A8 | L13 | A12 | C7 | A11 | A8 | |
| IOT27A/GCLKT_0 | I/O | DQ14 | 0 | GCLKT_0 | True_of_IOT27B | NONE | 80 | 123 | 123 | B7 | H11 | B10 | C6 | K15 | B11 | E8 | E11 | C6 | B10 |
| IOT27B/GCLKC_0 | I/O | DQ14 | 0 | GCLKC_0 | Comp_of_IOT27A | NONE | 79 | 122 | 122 | A7 | J13 | A10 | D8 | K16 | B12 | E9 | D11 | D8 | A10 |
| IOT2A | I/O | DQ15 | 0 | | True_of_IOT2B | TRUE | | | | | L15 | C4 | | F15 | D5 | | B1 | | C4 |
| IOT2B | I/O | DQ15 | 0 | | Comp_of_IOT2A | TRUE | | 141 | 141 | | | A4 | | F16 | D6 | | A2 | | A4 |
| IOT30A/GCLKT_1 | I/O | DQ13 | 1 | GCLKT_1 | True_of_IOT30B | TRUE | 77 | 121 | 121 | D8 | K14 | E7 | D9 | L15 | D11 | D9 | B12 | D9 | E7 |
| IOT30B/GCLKC_1 | I/O | DQ13 | 1 | GCLKC_1 | Comp_of_IOT30A | TRUE | 76 | 120 | 120 | C8 | K15 | E8 | C9 | L16 | D12 | C9 | A12 | C9 | E8 |
| IOT31A | I/O | DQ13 | 1 | | True_of_IOT31B | NONE | | | | | | | | H17 | C11 | | D12 | | |
| IOT31B | I/O | DQ13 | 1 | | Comp_of_IOT31A | NONE | | | | | | | | H18 | C12 | | E12 | | |
| IOT32A | I/O | DQ13 | 1 | | True_of_IOT32B | TRUE | | | | B8 | J11 | E10 | B10 | J16 | E12 | | G12 | B10 | E10 |
| IOT32B | I/O | DQ13 | 1 | | Comp_of_IOT32A | TRUE | | | | A8 | L12 | C10 | A10 | J18 | E13 | | F12 | A10 | C10 |
| IOT33A | I/O | DQ13 | 1 | | True_of_IOT33B | NONE | | | | | | | | | A13 | | C13 | | |
| IOT33B | I/O | DQ13 | 1 | | Comp_of_IOT33A | NONE | | | | | | | | | A14 | | D13 | | |
| IOT34A | I/O | DQ13 | 1 | | True_of_IOT34B | TRUE | 75 | | | B9 | L16 | | B11 | L17 | A15 | | E13 | B11 | |
| IOT34B | I/O | DQ13 | 1 | | Comp_of_IOT34A | TRUE | 74 | | | A9 | L14 | | A11 | L18 | B15 | | F13 | A11 | |
| IOT35A | I/O | DQ13 | 1 | | True_of_IOT35B | NONE | | | | | | | | K17 | C13 | | C14 | | |
| IOT35B | I/O | DQ13 | 1 | | Comp_of_IOT35A | NONE | | | | | | | | K18 | D13 | | D14 | | |
| IOT36A | I/O | DQ13 | 1 | | True_of_IOT36B | TRUE | | | | | K13 | TRUE | B12 | M16 | C14 | | A14 | B12 | |
| IOT36B | I/O | DQ13 | 1 | | Comp_of_IOT36A | TRUE | | | | | K12 | | A12 | M18 | C15 | | B14 | A12 | |
| IOT37A | I/O | DQS13 | 1 | | True_of_IOT37B | NONE | | | | B10 | | | | N15 | A16 | C10 | E14 | | |
| IOT37B | I/O | DQS13 | 1 | | Comp_of_IOT37A | NONE | | | | A10 | | | | N16 | B16 | B10 | E15 | | |
| IOT38A | I/O | DQ13 | 1 | | True_of_IOT38B | TRUE | | 119 | 119 | B11 | K11 | TRUE | E10 | N17 | A17 | C11 | A15 | E10 | |
| IOT38B | I/O | DQ13 | 1 | | Comp_of_IOT38A | TRUE | | 118 | 118 | A11 | L13 | | E11 | N18 | B17 | B11 | B15 | E11 | |
| IOT39A | I/O | DQ13 | 1 | | True_of_IOT39B | NONE | | | | | | | | | D14 | | A16 | | |
| IOT39B | I/O | DQ13 | 1 | | Comp_of_IOT39A | NONE | | | | | | | | | D15 | | B17 | | |
| IOT3A | I/O | DQ15 | 0 | | True_of_IOT3B | NONE | | | | | | | | | E6 | A4 | E6 | | |

注!
[1] UG324封装IOR30A, IOR30B共用T15管脚。
[2] Tie to VSS by 10K Resistor表示通过10K电阻下拉到地。

| 管脚名 | 功能 | DQS | BANK | 配置功能 | 差分Pair | LVDS | QN88 | LQ144 | EQ144 | MG196 | PG256 | PG256S | PG256C | UG324 | PG484 | PG256E | UG484 | PG256CF | PG256SF |
|------------------|-------|-------|------|-----------|----------------|------|------|-------|-------|-------|-------|--------|--------|-------|-------|--------|-------|---------|---------|
| IOT3B | I/O | DQ15 | 0 | | Comp_of_IOT3A | NONE | | | | | | | | | E7 | A5 | F7 | | |
| IOT40A | I/O | DQ13 | 1 | | True_of_IOT40B | TRUE | 73 | 117 | 117 | B12 | M14 | D8 | B14 | P17 | A18 | | C15 | B14 | D8 |
| IOT40B | I/O | DQ13 | 1 | | Comp_of_IOT40A | TRUE | 72 | 116 | 116 | A12 | M15 | C8 | A14 | P18 | A19 | | D15 | A14 | C8 |
| IOT41A | I/O | DQ13 | 1 | | True_of_IOT41B | NONE | | | | | | | | | C16 | A10 | C17 | | |
| IOT41B | I/O | DQ13 | 1 | | Comp_of_IOT41A | NONE | | | | | | | | | C17 | A11 | D16 | | |
| IOT42A | I/O | DQ13 | 1 | | True_of_IOT42B | TRUE | | 115 | 115 | D11 | | C11 | B13 | U17 | | | A13 | B13 | C11 |
| IOT42B | I/O | DQ13 | 1 | | Comp_of_IOT42A | TRUE | | 114 | 114 | C11 | | A11 | A13 | U18 | | | B13 | A13 | A11 |
| IOT43A | I/O | DQ13 | 1 | | True_of_IOT43B | NONE | | | | | | | | | A20 | D10 | E16 | | |
| IOT43B | I/O | DQ13 | 1 | | Comp_of_IOT43A | NONE | | | | | | | | | A21 | E11 | D17 | | |
| IOT44A | I/O | DQ13 | 1 | | True_of_IOT44B | TRUE | 71 | | | | D14 | F9 | D12 | T17 | C18 | | A17 | D12 | F9 |
| IOT44B | I/O | DQ13 | 1 | | Comp_of_IOT44A | TRUE | 70 | | | | E15 | D9 | D11 | T18 | C19 | | B18 | D11 | D9 |
| IOT45A | I/O | DQ13 | 1 | | True_of_IOT45B | NONE | | | | | | | D14 | | | C8 | A19 | D14 | |
| IOT45B | I/O | DQ13 | 1 | | Comp_of_IOT45A | NONE | | | | | | | C14 | | | B9 | B20 | C14 | |
| IOT48A | I/O | DQS12 | 1 | | True_of_IOT48B | TRUE | | 113 | 113 | | N15 | B12 | B9 | M14 | D16 | | A18 | B9 | B12 |
| IOT48B | I/O | DQS12 | 1 | | Comp_of_IOT48A | TRUE | | 112 | 112 | | P16 | A12 | A9 | N14 | E16 | | B19 | A9 | A12 |
| IOT49A | I/O | DQ12 | 1 | | True_of_IOT49B | NONE | | | | | | | | | | | C18 | | |
| IOT49B | I/O | DQ12 | 1 | | Comp_of_IOT49A | NONE | | | | | | | | | | | D18 | | |
| IOT4A | I/O | DQ15 | 0 | | True_of_IOT4B | TRUE | 86 | 140 | 140 | | D16 | B5 | D3 | C17 | D4 | A2 | C3 | D3 | B5 |
| IOT4B | I/O | DQ15 | 0 | | Comp_of_IOT4A | TRUE | 85 | 139 | 139 | | E14 | A5 | C3 | C18 | C4 | A3 | C4 | C3 | A5 |
| IOT50A | I/O | DQ12 | 1 | | True_of_IOT50B | TRUE | 69 | 111 | 111 | | | C13 | E9 | | E14 | | G14 | E9 | C13 |
| IOT50B | I/O | DQ12 | 1 | | Comp_of_IOT50A | TRUE | | 110 | 110 | | | A13 | | | E15 | | F14 | | A13 |
| IOT51A | I/O | DQ12 | 1 | | True_of_IOT51B | NONE | | | | | | | | | D17 | | F15 | | |
| IOT51B | I/O | DQ12 | 1 | | Comp_of_IOT51A | NONE | | | | | | | | | D18 | | G15 | | |
| IOT52A | I/O | DQ12 | 1 | | True_of_IOT52B | TRUE | | | | | N16 | F10 | A15 | L14 | | | A20 | A15 | F10 |
| IOT52B | I/O | DQ12 | 1 | | Comp_of_IOT52A | TRUE | | | | | N14 | E11 | F11 | M13 | | | B21 | F11 | E11 |
| IOT53A | I/O | DQ12 | 1 | | True_of_IOT53B | NONE | | | | | | | | | F16 | | C19 | | |
| IOT53B | I/O | DQ12 | 1 | | Comp_of_IOT53A | NONE | | | | | | | | | F17 | | C20 | | |
| IOT54A | I/O | DQ12 | 1 | | True_of_IOT54B | TRUE | | | | | P15 | B14 | F9 | P15 | A22 | D11 | A21 | F9 | B14 |
| IOT54B | I/O | DQ12 | 1 | | Comp_of_IOT54A | TRUE | | | | | R16 | A14 | F10 | P16 | B22 | D12 | B22 | F10 | A14 |
| IOT55A | I/O | DQ12 | 1 | | True_of_IOT55B | NONE | | | | | | D11 | | | E17 | | F16 | | D11 |
| IOT55B/JTAGSEL_N | I/O | DQ12 | 1 | JTAGSEL_N | Comp_of_IOT55A | NONE | | | | | | D12 | C11 | R16 | E18 | | E17 | C11 | D12 |
| IOT5A | I/O | DQ15 | 0 | | True_of_IOT5B | NONE | | | | | C16 | | | | | | C3 | B2 | |
| IOT5B | I/O | DQ15 | 0 | | Comp_of_IOT5A | NONE | | | | | D15 | | | | | | B3 | A3 | |
| IOT6A | I/O | DQ15 | 0 | | True_of_IOT6B | TRUE | 84 | 138 | 138 | | E16 | | D6 | F14 | F6 | D4 | B4 | D6 | |
| IOT6B | I/O | DQ15 | 0 | | Comp_of_IOT6A | TRUE | 83 | 137 | 137 | | F15 | | D5 | G14 | F7 | C4 | A5 | D5 | |
| IOT7A | I/O | DQ15 | 0 | | True_of_IOT7B | NONE | | 136 | 136 | | | | | | C5 | C5 | F8 | | |
| IOT7B | I/O | DQ15 | 0 | | Comp_of_IOT7A | NONE | | 135 | 135 | | | | | | C6 | B5 | G8 | | |
| IOT8A | I/O | DQ15 | 0 | | True_of_IOT8B | TRUE | | | | | F13 | | F7 | D17 | | E6 | B3 | F7 | |
| IOT8B | I/O | DQ15 | 0 | | Comp_of_IOT8A | TRUE | | | | | G12 | | F6 | D18 | | D6 | A4 | F6 | |
| IOT9A | I/O | DQS15 | 0 | | True_of_IOT9B | NONE | | | | | F14 | D5 | B3 | | B1 | D5 | D5 | B3 | D5 |
| IOT9B | I/O | DQS15 | 0 | | Comp_of_IOT9A | NONE | | | | | F16 | C5 | A3 | | A1 | E5 | C5 | A3 | C5 |
| NC | N/A | | N/A | | | | | | | | | P14 | L5 | | | G6 | | F12 | P14 |
| NC | N/A | | N/A | | | | | | | | | | F12 | | | G11 | | L5 | |
| NC | N/A | | N/A | | | | | | | | | | | | | K11 | | | |
| NC | N/A | | N/A | | | | | | | | | | | | | K6 | | | |
| VCC | Power | | N/A | | | | 1 | | | | | | | | | | | | G7 |
| VCC | Power | | N/A | | | | 22 | | | | | | | | | | | | G9 |
| VCC | Power | | N/A | | | | 45 | | | | | | | | | | | | H8 |
| VCC | Power | | N/A | | | | 66 | | | | | | | | | | | | J9 |
| VCC | Power | | N/A | | | | | | | | A1 | G7 | | | G7 | | M12 | | K10 |

注!
[1] UG324封装IOR30A, IOR30B共用T15管脚。
[2] Tie to VSS by 10K Resistor表示通过10K电阻下拉到地。

| 管脚名 | 功能 | DQS | BANK | 配置功能 | 差分Pair | LVDS | QN88 | LQ144 | EQ144 | MG196 | PG256 | PG256S | PG256C | UG324 | PG484 | PG256E | UG484 | PG256CF | PG256SF |
|-------------------------------------|-------|-----|------|------|--------|------|------|-------|-------|-------|-------|--------|--------|-------|-------|--------|-------|---------|---------|
| VCC | Power | | N/A | | | | | | | | A16 | G9 | | | G8 | | N12 | | K8 |
| VCC | Power | | N/A | | | | | | | | G7 | | | | G9 | | K11 | | |
| VCC | Power | | N/A | | | | | | | | K10 | J9 | | | G12 | | L11 | | |
| VCC | Power | | N/A | | | | | | | | T1 | K10 | | | G13 | | M11 | | |
| VCC | Power | | N/A | | | | | | | | T16 | K8 | | | G14 | | N11 | | |
| VCC | Power | | N/A | | | | | | | | | H8 | | | G10 | | K10 | | |
| VCC | Power | | N/A | | | | | | | | | | | | G16 | | N10 | | |
| VCC | Power | | N/A | | | | | | | | | | | | G11 | | | | |
| VCC | Power | | N/A | | | | | | | | | | | | G15 | | | | |
| VCC | Power | | N/A | | | | | | | | | | | | H16 | | | | |
| VCC | Power | | N/A | | | | | | | | | | | | H7 | | | | |
| VCC | Power | | N/A | | | | | | | | | | | | J16 | | | | |
| VCC | Power | | N/A | | | | | | | | | | | | J7 | | | | |
| VCC | Power | | N/A | | | | | | | | | | | | L16 | | | | |
| VCC | Power | | N/A | | | | | | | | | | | | L7 | | | | |
| VCC | Power | | N/A | | | | | | | | | | | | M16 | | | | |
| VCC | Power | | N/A | | | | | | | | | | | | M7 | | | | |
| VCC | Power | | N/A | | | | | | | | | | | | P16 | | | | |
| VCC | Power | | N/A | | | | | | | | | | | | P7 | | | | |
| VCC | Power | | N/A | | | | | | | | | | | | R16 | | | | |
| VCC | Power | | N/A | | | | | | | | | | | | R7 | | | | |
| VCC | Power | | N/A | | | | | | | | | | | | T10 | | | | |
| VCC | Power | | N/A | | | | | | | | | | | | T11 | | | | |
| VCC | Power | | N/A | | | | | | | | | | | | T12 | | | | |
| VCC | Power | | N/A | | | | | | | | | | | | T13 | | | | |
| VCC | Power | | N/A | | | | | | | | | | | | T14 | | | | |
| VCC | Power | | N/A | | | | | | | | | | | | T15 | | | | |
| VCC | Power | | N/A | | | | | | | | | | | | T16 | | | | |
| VCC | Power | | N/A | | | | | | | | | | | | T7 | | | | |
| VCC | Power | | N/A | | | | | | | | | | | | T8 | | | | |
| VCC | Power | | N/A | | | | | | | | | | | | T9 | | | | |
| VCC/VCCPLL0/VCCPLL1/VCCPLL0/VCCPLL1 | Power | | N/A | | | | | | | E10 | | | | | | | | | |
| VCC/VCCPLL0/VCCPLL1/VCCPLL0/VCCPLL1 | Power | | N/A | | | | | | | E5 | | | | | | | | | |
| VCC/VCCPLL0/VCCPLL1/VCCPLL0/VCCPLL1 | Power | | N/A | | | | | | | E6 | | | | | | | | | |
| VCC/VCCPLL0/VCCPLL1/VCCPLL0/VCCPLL1 | Power | | N/A | | | | | | | E9 | | | | | | | | | |
| VCC/VCCPLL0/VCCPLL1/VCCPLL0/VCCPLL1 | Power | | N/A | | | | | | | F10 | | | | | | | | | |
| VCC/VCCPLL0/VCCPLL1/VCCPLL0/VCCPLL1 | Power | | N/A | | | | | | | F5 | | | | | | | | | |
| VCC/VCCPLL0/VCCPLL1/VCCPLL0/VCCPLL1 | Power | | N/A | | | | | | | F6 | | | | | | | | | |
| VCC/VCCPLL0/VCCPLL1/VCCPLL0/VCCPLL1 | Power | | N/A | | | | | | | F9 | | | | | | | | | |
| VCC/VCCPLL0/VCCPLL1/VCCPLL0/VCCPLL1 | Power | | N/A | | | | | | | J5 | | | | | | | | | |

| 管脚名 | 功能 | DQS | BANK | 配置功能 | 差分Pair | LVDS | QN88 | LQ144 | EQ144 | MG196 | PG256 | PG256S | PG256C | UG324 | PG484 | PG256E | UG484 | PG256CF | PG256SF |
|-------------------------------------|-------|-----|------|------|--------|------|------|-------|-------|-------|-------|--------|--------|-------|-------|--------|-------|---------|---------|
| VCC/VCCPLL0/VCCPLL1/VCCPLL0/VCCPLL1 | Power | | N/A | | | | | | | J6 | | | | | | | | | |
| VCC/VCCPLL0/VCCPLL1/VCCPLL0/VCCPLL1 | Power | | N/A | | | | | | | J9 | | | | | | | | | |
| VCC/VCCPLL0/VCCPLL1/VCCPLL0/VCCPLL1 | Power | | N/A | | | | | | | K10 | | | | | | | | | |
| VCC/VCCPLL0/VCCPLL1/VCCPLL0/VCCPLL1 | Power | | N/A | | | | | | | K5 | | | | | | | | | |
| VCC/VCCPLL0/VCCPLL1/VCCPLL0/VCCPLL1 | Power | | N/A | | | | | | | K6 | | | | | | | | | |
| VCC/VCCPLL0/VCCPLL1/VCCPLL0/VCCPLL1 | Power | | N/A | | | | | | | K9 | | | | | | | | | |
| VCC/VCCPLL1 | Power | | N/A | | | | | 1 | 1 | | | | | | | | | | |
| VCC/VCCPLL1 | Power | | N/A | | | | | 36 | 36 | | | | | | | | | | |
| VCC/VCCPLL1 | Power | | N/A | | | | | 73 | 73 | | | | | | | | | | |
| VCC/VCCPLL1 | Power | | N/A | | | | | 108 | 108 | | | | | | | | | | |
| VCC/VCCPLL/VCCPLL | Power | | N/A | | | | | | | | | | G6 | G7 | | J10 | | G6 | |
| VCC/VCCPLL/VCCPLL | Power | | N/A | | | | | | | | | | G7 | H11 | | K7 | | G7 | |
| VCC/VCCPLL/VCCPLL | Power | | N/A | | | | | | | | | | G8 | H9 | | F5 | | G8 | |
| VCC/VCCPLL/VCCPLL | Power | | N/A | | | | | | | | | | H6 | J10 | | K9 | | G9 | |
| VCC/VCCPLL/VCCPLL | Power | | N/A | | | | | | | | | | H11 | J8 | | G8 | | G10 | |
| VCC/VCCPLL/VCCPLL | Power | | N/A | | | | | | | | | | K7 | K11 | | H7 | | H6 | |
| VCC/VCCPLL/VCCPLL | Power | | N/A | | | | | | | | | | G9 | K9 | | G10 | | H11 | |
| VCC/VCCPLL/VCCPLL | Power | | N/A | | | | | | | | | | D13 | L10 | | M10 | | K7 | |
| VCC/VCCPLL/VCCPLL | Power | | N/A | | | | | | | | | | G10 | L8 | | L9 | | N4 | |
| VCC/VCCPLL/VCCPLL | Power | | N/A | | | | | | | | | | N4 | M12 | | L8 | | D13 | |
| VCC/VCCPLL/VCCPLL | Power | | N/A | | | | | | | | | | | M7 | | M7 | | | |
| VCCO0 | Power | | N/A | | | | 78 | | | | | | | J14 | | E7 | C7 | C4 | D7 |
| VCCO0 | Power | | N/A | | | | | 127 | 127 | | | | | E17 | | F7 | H9 | C7 | B4 |
| VCCO0 | Power | | N/A | | | | | | | C10 | H10 | B4 | C4 | G15 | B10 | | G10 | A1 | B9 |
| VCCO0 | Power | | N/A | | | | | | | C4 | | B9 | C7 | | F11 | | H11 | | |
| VCCO0 | Power | | N/A | | | | | | | | E13 | D7 | A1 | | B5 | | | | |
| VCCO1 | Power | | N/A | | | | 67 | 109 | 109 | | | | | R17 | | F9 | C12 | C10 | D10 |
| VCCO1 | Power | | N/A | | | | | | | C5 | J10 | D10 | A16 | J17 | B14 | E10 | H12 | C13 | B13 |
| VCCO1 | Power | | N/A | | | | | | | C9 | M13 | | C10 | M15 | B19 | | G13 | A16 | |
| VCCO1 | Power | | N/A | | | | | | | | | B13 | C13 | | F12 | | H14 | | |
| VCCO1 | Power | | N/A | | | | | | | | | | | | | | C16 | | |
| VCCO2 | Power | | N/A | | | | | | | D12 | N12 | D15 | E14 | | E21 | | | E14 | D15 |
| VCCO2 | Power | | N/A | | | | | | | E12 | | G13 | G14 | P9 | K21 | H11 | | G14 | G13 |
| VCCO2 | Power | | N/A | | | | | | | G11 | | J15 | | R12 | L17 | G12 | | | J15 |
| VCCO2 | Power | | N/A | | | | | | | | | | | U14 | | | | | |
| VCCO3 | Power | | N/A | | | | 58 | 91 | 91 | | | | | R6 | | N7 | M15 | K14 | K13 |
| VCCO3 | Power | | N/A | | | | | 77 | 77 | | | | | U4 | | F12 | N15 | M14 | N15 |
| VCCO3 | Power | | N/A | | | | | | | G12 | K8 | K13 | K14 | U9 | M17 | N8 | P15 | | R13 |
| VCCO3 | Power | | N/A | | | | | | | K11 | N5 | N15 | M14 | | P21 | | M18 | | |
| VCCO3 | Power | | N/A | | | | | | | K12 | | R13 | | | W21 | | V20 | | |
| VCCO4 | Power | | N/A | | | | 44 | | | | | N10 | | J5 | | J11 | R14 | P10 | N10 |
| VCCO4 | Power | | N/A | | | | | 55 | 55 | | | R8 | | M4 | | M13 | W16 | P13 | R8 |
| VCCO4 | Power | | N/A | | | | | | | M10 | J7 | | P13 | R2 | AA18 | | R13 | T16 | |
| VCCO4 | Power | | N/A | | | | | | | M5 | | | T16 | | U12 | | R12 | | |

注!
[1] UG324封装IOR30A, IOR30B共用T15管脚。
[2] Tie to VSS by 10K Resistor表示通过10K电阻下拉到地。

| 管脚名 | 功能 | DQS | BANK | 配置功能 | 差分Pair | LVDS | QN88 | LQ144 | EQ144 | MG196 | PG256 | PG256S | PG256C | UG324 | PG484 | PG256E | UG484 | PG256CF | PG256SF |
|------------------|-------|-----|------|------|--------|------|------|-------|-------|-------|-------|--------|--------|-------|-------|--------|-------|---------|---------|
| VCCO4 | Power | | N/A | | | | | | | | M4 | | P10 | | AA13 | | | | |
| VCCO5 | Power | | N/A | | | | 23 | 37 | 37 | | | N7 | | E2 | | N9 | W11 | P4 | N7 |
| VCCO5 | Power | | N/A | | | | | | | M6 | E4 | R4 | P4 | G4 | U11 | N10 | R11 | P7 | R4 |
| VCCO5 | Power | | N/A | | | | | | | M9 | H7 | | P7 | J2 | AA4 | N11 | R10 | T1 | |
| VCCO5 | Power | | N/A | | | | | | | | | | T1 | | AA9 | N5 | R9 | | |
| VCCO5 | Power | | N/A | | | | | | | | | | | | | N12 | W7 | | |
| VCCO5 | Power | | N/A | | | | | | | | | | | | | N6 | | | |
| VCCO6 | Power | | N/A | | | | | | | E3 | | N2 | M3 | B5 | N2 | J6 | | K3 | K4 |
| VCCO6 | Power | | N/A | | | | | | | E4 | | J2 | | D7 | V2 | M4 | | M3 | N2 |
| VCCO6 | Power | | N/A | | | | | | | G3 | D5 | K4 | K3 | B10 | M6 | | | | J2 |
| VCCO7 | Power | | N/A | | | | 3 | 5 | 5 | | | | | B15 | | H6 | | | G4 |
| VCCO7 | Power | | N/A | | | | | 19 | 19 | | | | | D13 | | G5 | | | D2 |
| VCCO7 | Power | | N/A | | | | | | | H3 | G9 | G4 | | E10 | D2 | | | | |
| VCCO7 | Power | | N/A | | | | | | | K3 | D12 | | | | J2 | | | | |
| VCCO7 | Power | | N/A | | | | | | | K4 | | D2 | | | L6 | | | | |
| VCCO6/VCCO7 | Power | | N/A | | | | | | | | | | | | | | M3 | | |
| VCCO6/VCCO7 | Power | | N/A | | | | | | | | | | | | | | N8 | | |
| VCCO6/VCCO7 | Power | | N/A | | | | | | | | | | | | | | J8 | | |
| VCCO6/VCCO7 | Power | | N/A | | | | | | | | | | | | | | P8 | | |
| VCCO6/VCCO7 | Power | | N/A | | | | | | | | | | | | | | V3 | | |
| VCCO6/VCCO7 | Power | | N/A | | | | | | | | | | | | | | L8 | | |
| VCCO6/VCCO7 | Power | | N/A | | | | | | | | | | | | | | M8 | | |
| VCCO6/VCCO7 | Power | | N/A | | | | | | | | | | | | | | K8 | | |
| VCCO6/VCCO7 | Power | | N/A | | | | | | | | | | | | | | F3 | | |
| VCCPLLL | Power | | N/A | | | | | | | | G10 | J7 | | | N7 | | | | J7 |
| VCCPLLL | Power | | N/A | | | | | | | | | | | | K7 | | | | |
| VCCPLLL0 | Power | | N/A | | | | | 8 | 8 | | | | | | | | F4 | | |
| VCCPLLL1 | Power | | N/A | | | | 14 | | | | | | | | | | T6 | | |
| VCCPLLR | Power | | N/A | | | | | | | | K7 | H10 | | | N16 | | | | H10 |
| VCCPLLR | Power | | N/A | | | | | | | | | | | | K16 | | | | |
| VCCPLLR0 | Power | | N/A | | | | | 104 | 104 | | | | | | | | | G21 | |
| VCCPLLR1 | Power | | N/A | | | | 50 | 81 | 81 | | | | | | | | T20 | | |
| VCCX | Power | | N/A | | | | | | | D7 | | L9 | | B1 | U14 | F8 | | | E5 |
| VCCX | Power | | N/A | | | | | | | E7 | K9 | E5 | | B17 | F14 | H12 | | | F11 |
| VCCX | Power | | N/A | | | | | | | G10 | G8 | F11 | | E14 | F9 | L10 | | | F8 |
| VCCX | Power | | N/A | | | | | | | G9 | | F8 | | E5 | J6 | H5 | | | G10 |
| VCCX | Power | | N/A | | | | | | | H5 | | G10 | | E9 | J17 | K5 | | | H6 |
| VCCX | Power | | N/A | | | | | | | H6 | | H6 | | G10 | P6 | K12 | | | J10 |
| VCCX | Power | | N/A | | | | | | | K7 | | J10 | | J12 | P17 | | | | L6 |
| VCCX | Power | | N/A | | | | | | | L7 | | L6 | | K7 | U9 | | | | L9 |
| VCCX | Power | | N/A | | | | | | | | | | | M9 | | | | | |
| VCCX | Power | | N/A | | | | | | | | | | | P10 | | | | | |
| VCCX | Power | | N/A | | | | | | | | | | | P14 | | | | | |
| VCCX | Power | | N/A | | | | | | | | | | | P5 | | | | | |
| VCCX/VCCO2 | | | | | | | | | | | | | | | | | F20 | | |
| VCCX/VCCO2 | | | | | | | | | | | | | | | | | K15 | | |
| VCCX/VCCO2 | | | | | | | | | | | | | | | | | L15 | | |
| VCCX/VCCO2 | | | | | | | | | | | | | | | | | J15 | | |
| VCCX/VCCO2/VCCO6 | Power | | N/A | | | | 12 | 31 | 31 | | | | | | | | | | |
| VCCX/VCCO2/VCCO6 | Power | | N/A | | | | 64 | 103 | 103 | | | | | | | | | | |

注!
[1] UG324封装IOR30A, IOR30B共用T15管脚。
[2] Tie to VSS by 10K Resistor表示通过10K电阻下拉到地。

| 管脚名 | 功能 | DQS | BANK | 配置功能 | 差分Pair | LVDS | QN88 | LQ144 | EQ144 | MG196 | PG256 | PG256S | PG256C | UG324 | PG484 | PG256E | UG484 | PG256CF | PG256SF |
|------------|--------|-----|------|------|--------|------|------|-------|-------|-------|-------|--------|--------|-------|-------|--------|-------|---------|---------|
| VCCX/VCCO7 | Power | | N/A | | | | | | | | | | E3 | | | | | | E3 |
| VCCX/VCCO7 | Power | | N/A | | | | | | | | | | G3 | | | | | | G3 |
| VSS | Ground | | N/A | | | | 2 | 2 | 2 | | | | | | | R13 | A1 | H7 | A1 |
| VSS | Ground | | N/A | | | | 21 | 35 | 35 | | | | | | | A1 | | H8 | A16 |
| VSS | Ground | | N/A | | | | 24 | | | | | | | | | N2 | | H9 | B11 |
| VSS | Ground | | N/A | | | | 43 | | | | | | | | | J2 | | H10 | B7 |
| VSS | Ground | | N/A | | | | 46 | 74 | 74 | | | | | | | | | J7 | D13 |
| VSS | Ground | | N/A | | | | 65 | 107 | 107 | | | | | A1 | | M5 | | J8 | D4 |
| VSS | Ground | | N/A | | | | 68 | | | | | | | A18 | | T4 | | J9 | E9 |
| VSS | Ground | | N/A | | | | | 17 | 17 | | | | | B13 | | | | J10 | G15 |
| VSS | Ground | | N/A | | | | | 53 | 53 | | | | | B7 | | B4 | | B2 | G2 |
| VSS | Ground | | N/A | | | | | 89 | 89 | | | | | C16 | | H9 | | B15 | G8 |
| VSS | Ground | | N/A | | | | | | | A1 | B2 | A1 | H7 | C3 | B4 | T1 | | C5 | H12 |
| VSS | Ground | | N/A | | | | | | | A14 | B15 | A16 | H8 | D10 | AA5 | N13 | A22 | C12 | H7 |
| VSS | Ground | | N/A | | | | | | | C2 | C3 | B11 | H9 | D5 | AA10 | R4 | AB22 | D7 | H9 |
| VSS | Ground | | N/A | | | | | | | C3 | C14 | B7 | H10 | E15 | AA14 | M12 | F21 | D10 | J5 |
| VSS | Ground | | N/A | | | | | | | C6 | D4 | D13 | J7 | G12 | AA19 | A16 | K21 | E4 | J8 |
| VSS | Ground | | N/A | | | | | | | C7 | D13 | D4 | J8 | G17 | B9 | E2 | N21 | E13 | K7 |
| VSS | Ground | | N/A | | | | | | | D10 | E5 | E9 | J9 | G2 | B13 | H8 | V21 | G4 | K9 |
| VSS | Ground | | N/A | | | | | | | D5 | E12 | G15 | J10 | G5 | B18 | R11 | E18 | G13 | L15 |
| VSS | Ground | | N/A | | | | | | | D6 | F6 | G2 | B2 | H10 | D21 | P4 | L18 | K4 | L2 |
| VSS | Ground | | N/A | | | | | | | D9 | F11 | G8 | B15 | H8 | E2 | D15 | B16 | K13 | M8 |
| VSS | Ground | | N/A | | | | | | | E11 | H8 | H12 | C5 | J11 | H8 | K10 | Y16 | M4 | N13 |
| VSS | Ground | | N/A | | | | | | | E8 | H9 | H7 | C12 | J15 | H9 | T13 | H15 | M13 | P3 |
| VSS | Ground | | N/A | | | | | | | F7 | J8 | H9 | D7 | J4 | H10 | R9 | R15 | N7 | R10 |
| VSS | Ground | | N/A | | | | | | | F8 | J9 | J5 | D10 | J9 | H11 | R12 | J14 | N10 | R6 |
| VSS | Ground | | N/A | | | | | | | G4 | | | | K10 | L10 | R10 | K14 | P5 | T1 |
| VSS | Ground | | N/A | | | | | | | G5 | L6 | J8 | E4 | K8 | H12 | L6 | L14 | P12 | T16 |
| VSS | Ground | | N/A | | | | | | | G6 | L11 | K7 | E13 | L11 | H13 | J12 | M14 | R2 | |
| VSS | Ground | | N/A | | | | | | | G7 | M5 | K9 | G4 | L9 | H14 | L12 | N14 | R15 | |
| VSS | Ground | | N/A | | | | | | | G8 | M12 | L15 | G13 | M17 | H15 | H15 | P14 | E2 | |
| VSS | Ground | | N/A | | | | | | | H10 | N4 | L2 | K4 | M2 | J8 | F6 | H13 | H16 | |
| VSS | Ground | | N/A | | | | | | | H4 | N13 | M8 | K13 | M6 | J9 | R8 | J13 | H15 | |
| VSS | Ground | | N/A | | | | | | | H7 | P3 | N13 | M4 | N13 | J10 | P13 | L13 | M5 | |
| VSS | Ground | | N/A | | | | | | | H8 | P14 | P3 | M13 | R1 | J11 | J9 | M13 | E12 | |
| VSS | Ground | | N/A | | | | | | | H9 | R2 | R10 | N7 | R14 | J12 | G7 | P13 | | |
| VSS | Ground | | N/A | | | | | | | J10 | R15 | R6 | N10 | R18 | J13 | R5 | J12 | | |
| VSS | Ground | | N/A | | | | | | | J7 | | T1 | P5 | R4 | J14 | J8 | P12 | | |
| VSS | Ground | | N/A | | | | | | | J8 | | T16 | P12 | R9 | J15 | F10 | W12 | | |
| VSS | Ground | | N/A | | | | | | | K8 | | | R2 | T16 | J21 | N4 | C11 | | |
| VSS | Ground | | N/A | | | | | | | L10 | | | R15 | U12 | K2 | J5 | J11 | | |
| VSS | Ground | | N/A | | | | | | | L11 | | | E2 | U6 | K8 | M15 | P11 | | |
| VSS | Ground | | N/A | | | | | | | L3 | | | H16 | V1 | K9 | T16 | H10 | | |
| VSS | Ground | | N/A | | | | | | | L5 | | | H15 | V18 | K10 | | J10 | | |
| VSS | Ground | | N/A | | | | | | | L6 | | | | | K11 | G9 | L10 | | |
| VSS | Ground | | N/A | | | | | | | L9 | | | M5 | | K12 | B8 | M10 | | |
| VSS | Ground | | N/A | | | | | | | M11 | | | E12 | | K13 | M6 | P10 | | |
| VSS | Ground | | N/A | | | | | | | M3 | | | | | K14 | R6 | J9 | | |
| VSS | Ground | | N/A | | | | | | | M7 | | | | | K15 | K8 | K9 | | |
| VSS | Ground | | N/A | | | | | | | P1 | | | | | L8 | J7 | L9 | | |

注!
[1] UG324封装IOR30A, IOR30B共用T15管脚。
[2] Tie to VSS by 10K Resistor表示通过10K电阻下拉到地。

| 管脚名 | 功能 | DQS | BANK | 配置功能 | 差分Pair | LVDS | QN88 | LQ144 | EQ144 | MG196 | PG256 | PG256S | PG256C | UG324 | PG484 | PG256E | UG484 | PG256CF | PG256SF |
|-----|--------|-----|------|------|--------|------|------|-------|-------|-------|-------|--------|--------|-------|-------|--------|-------|---------|---------|
| VSS | Ground | | N/A | | | | | | | P14 | | | | | L9 | L7 | M9 | | |
| VSS | Ground | | N/A | | | | | | | | | | | | F10 | H10 | N9 | | |
| VSS | Ground | | N/A | | | | | | | | | | | | F13 | B12 | P9 | | |
| VSS | Ground | | N/A | | | | | | | | | | | | F15 | M11 | H8 | | |
| VSS | Ground | | N/A | | | | | | | | | | | | F8 | F11 | R8 | | |
| VSS | Ground | | N/A | | | | | | | | | | | | H17 | R7 | B7 | | |
| VSS | Ground | | N/A | | | | | | | | | | | | H6 | L11 | Y7 | | |
| VSS | Ground | | N/A | | | | | | | | | | | | K17 | | E5 | | |
| VSS | Ground | | N/A | | | | | | | | | | | | K6 | | M4 | | |
| VSS | Ground | | N/A | | | | | | | | | | | | L11 | | C2 | | |
| VSS | Ground | | N/A | | | | | | | | | | | | L12 | | F2 | | |
| VSS | Ground | | N/A | | | | | | | | | | | | L13 | | L2 | | |
| VSS | Ground | | N/A | | | | | | | | | | | | L14 | | V2 | | |
| VSS | Ground | | N/A | | | | | | | | | | | | L15 | | | | |
| VSS | Ground | | N/A | | | | | | | | | | | | M10 | | AB1 | | |
| VSS | Ground | | N/A | | | | | | | | | | | | M11 | | | | |
| VSS | Ground | | N/A | | | | | | | | | | | | M12 | | | | |
| VSS | Ground | | N/A | | | | | | | | | | | | M13 | | | | |
| VSS | Ground | | N/A | | | | | | | | | | | | M14 | | | | |
| VSS | Ground | | N/A | | | | | | | | | | | | M15 | | | | |
| VSS | Ground | | N/A | | | | | | | | | | | | M8 | | | | |
| VSS | Ground | | N/A | | | | | | | | | | | | M9 | | | | |
| VSS | Ground | | N/A | | | | | | | | | | | | N10 | | | | |
| VSS | Ground | | N/A | | | | | | | | | | | | N11 | | | | |
| VSS | Ground | | N/A | | | | | | | | | | | | N12 | | | | |
| VSS | Ground | | N/A | | | | | | | | | | | | N13 | | | | |
| VSS | Ground | | N/A | | | | | | | | | | | | N14 | | | | |
| VSS | Ground | | N/A | | | | | | | | | | | | N15 | | | | |
| VSS | Ground | | N/A | | | | | | | | | | | | N21 | | | | |
| VSS | Ground | | N/A | | | | | | | | | | | | N6 | | | | |
| VSS | Ground | | N/A | | | | | | | | | | | | N8 | | | | |
| VSS | Ground | | N/A | | | | | | | | | | | | N9 | | | | |
| VSS | Ground | | N/A | | | | | | | | | | | | P10 | | | | |
| VSS | Ground | | N/A | | | | | | | | | | | | P11 | | | | |
| VSS | Ground | | N/A | | | | | | | | | | | | P12 | | | | |
| VSS | Ground | | N/A | | | | | | | | | | | | P13 | | | | |
| VSS | Ground | | N/A | | | | | | | | | | | | P14 | | | | |
| VSS | Ground | | N/A | | | | | | | | | | | | P15 | | | | |
| VSS | Ground | | N/A | | | | | | | | | | | | P2 | | | | |
| VSS | Ground | | N/A | | | | | | | | | | | | P8 | | | | |
| VSS | Ground | | N/A | | | | | | | | | | | | P9 | | | | |
| VSS | Ground | | N/A | | | | | | | | | | | | R10 | | | | |
| VSS | Ground | | N/A | | | | | | | | | | | | R11 | | | | |
| VSS | Ground | | N/A | | | | | | | | | | | | R12 | | | | |
| VSS | Ground | | N/A | | | | | | | | | | | | R13 | | | | |
| VSS | Ground | | N/A | | | | | | | | | | | | R14 | | | | |
| VSS | Ground | | N/A | | | | | | | | | | | | R15 | | | | |
| VSS | Ground | | N/A | | | | | | | | | | | | R17 | | | | |
| VSS | Ground | | N/A | | | | | | | | | | | | R6 | | | | |
| VSS | Ground | | N/A | | | | | | | | | | | | R8 | | | | |

注!
 [1] UG324封装IOR30A, IOR30B共用T15管脚。
 [2] Tie to VSS by 10K Resistor表示通过10K电阻下拉到地。

| 管脚名 | 功能 | DQS | BANK | 配置功能 | 差分Pair | LVDS | QN88 | LQ144 | EQ144 | MG196 | PG256 | PG256S | PG256C | UG324 | PG484 | PG256E | UG484 | PG256CF | PG256SF |
|-----|--------|-----|------|------|--------|------|------|-------|-------|-------|-------|--------|--------|-------|-------|--------|-------|---------|---------|
| VSS | Ground | | N/A | | | | | | | | | | | | R9 | | | | |
| VSS | Ground | | N/A | | | | | | | | | | | | U10 | | | | |
| VSS | Ground | | N/A | | | | | | | | | | | | U13 | | | | |
| VSS | Ground | | N/A | | | | | | | | | | | | U15 | | | | |
| VSS | Ground | | N/A | | | | | | | | | | | | U8 | | | | |
| VSS | Ground | | N/A | | | | | | | | | | | | V21 | | | | |
| VSS | Ground | | N/A | | | | | | | | | | | | W2 | | | | |

| 管脚名 | 功能 | DQS | BANK | 配置功能 | 差分Pair | LVDS | QN88 | LQ144 | EQ144 | MG196 | PG256 | PG256S | PG256C | UG324 | PG484 | PG256E | UG484 | PG256CF | PG256SF | |
|-----------------------------|-----|------|------|------------|----------------|------|------|-------|-------|-------|-------|--------|--------|-------|-------|--------|-------|---------|---------|--|
| BANK7 True LVDS Pair | | | | | | | | | | | | | | | | | | | | |
| IOL11A | I/O | DQ1 | 7 | | True_of_IOL11B | TRUE | | | | | | B2 | | B14 | C2 | F3 | E1 | | B2 | |
| IOL11B | I/O | DQ1 | 7 | | Comp_of_IOL11A | TRUE | | | | | | A2 | | A14 | C1 | G3 | F1 | | A2 | |
| IOL13A | I/O | DQ1 | 7 | | True_of_IOL13B | TRUE | | | | | B11 | G6 | | C13 | | | H4 | | G6 | |
| IOL13B | I/O | DQ1 | 7 | | Comp_of_IOL13A | TRUE | | | | | A12 | G5 | | A13 | | | H3 | | G5 | |
| IOL15A | I/O | DQ1 | 7 | | True_of_IOL15B | TRUE | | | | C1 | A11 | C1 | | B12 | F1 | | H2 | | C1 | |
| IOL15B | I/O | DQ1 | 7 | | Comp_of_IOL15A | TRUE | | | | B1 | C11 | B1 | | A12 | G1 | | H1 | | B1 | |
| IOL17A | I/O | DQ1 | 7 | | True_of_IOL17B | TRUE | | | | | D10 | D1 | | B11 | H3 | | H5 | | D1 | |
| IOL17B | I/O | DQ1 | 7 | | Comp_of_IOL17A | TRUE | | | | | E10 | D3 | | A11 | J3 | | J5 | | D3 | |
| IOL20A | I/O | DQ1 | 7 | | True_of_IOL20B | TRUE | | | | D4 | | K5 | F2 | G9 | J1 | | J2 | F2 | K5 | |
| IOL20B | I/O | DQ1 | 7 | | Comp_of_IOL20A | TRUE | | | | D3 | | K6 | F1 | F9 | K1 | | J1 | F1 | K6 | |
| IOL22A | I/O | DQS1 | 7 | | True_of_IOL22B | TRUE | 9 | 9 | | E2 | | E2 | G2 | G11 | L2 | H3 | L7 | G2 | E2 | |
| IOL22B | I/O | DQS1 | 7 | | Comp_of_IOL22A | TRUE | 10 | 10 | | E1 | | E1 | G1 | F10 | L1 | J3 | K5 | G1 | E1 | |
| IOL24A | I/O | DQ1 | 7 | | True_of_IOL24B | TRUE | | | | F4 | | L4 | | C10 | K4 | | K2 | | L4 | |
| IOL24B | I/O | DQ1 | 7 | | Comp_of_IOL24A | TRUE | | | | F3 | | L5 | | A10 | L4 | | K1 | | L5 | |
| IOL26A | I/O | DQ1 | 7 | | True_of_IOL26B | TRUE | | | | F2 | | H4 | | D11 | P1 | | L1 | | H4 | |
| IOL26B | I/O | DQ1 | 7 | | Comp_of_IOL26A | TRUE | | | | F1 | | H3 | | C11 | N1 | | M2 | | H3 | |
| IOL2A | I/O | DQ0 | 7 | | True_of_IOL2B | TRUE | 3 | 3 | | | B14 | B3 | D1 | B16 | E5 | D1 | G7 | D1 | B3 | |
| IOL2B | I/O | DQ0 | 7 | | Comp_of_IOL2A | TRUE | 4 | 4 | | | A15 | A3 | C2 | A16 | F5 | E1 | F6 | C2 | A3 | |
| IOL4A | I/O | DQ0 | 7 | | True_of_IOL4B | TRUE | | | | | | F6 | F3 | | G6 | | E4 | F3 | F6 | |
| IOL4B | I/O | DQ0 | 7 | | Comp_of_IOL4A | TRUE | | | | | | F5 | F4 | | G5 | | F5 | F4 | F5 | |
| IOL6A | I/O | DQS0 | 7 | | True_of_IOL6B | TRUE | | | | | | E4 | | D14 | E4 | | C1 | | E4 | |
| IOL6B | I/O | DQS0 | 7 | | Comp_of_IOL6A | TRUE | | | | | | E3 | | C14 | E3 | | D2 | | E3 | |
| IOL8A/LPLL1_T_fb | I/O | DQ0 | 7 | LPLL1_T_fb | True_of_IOL8B | TRUE | | | | | B13 | | D4 | F13 | F3 | J4 | D1 | D4 | | |
| IOL8B/LPLL1_C_fb | I/O | DQ0 | 7 | LPLL1_C_fb | Comp_of_IOL8A | TRUE | | | | | A14 | | E5 | E13 | G3 | K4 | E2 | E5 | | |
| BANK6 True LVDS Pair | | | | | | | | | | | | | | | | | | | | |
| IOL29A/GCLKT_6 | I/O | DQ2 | 6 | GCLKT_6 | True_of_IOL29B | TRUE | 10 | 25 | 25 | G2 | C8 | K3 | M2 | D9 | M4 | K1 | M1 | M2 | K3 | |
| IOL29B/GCLKC_6 | I/O | DQ2 | 6 | GCLKC_6 | Comp_of_IOL29A | TRUE | 11 | 26 | 26 | G1 | A8 | J4 | M1 | C9 | M3 | L1 | N1 | M1 | J4 | |
| IOL31A | I/O | DQ2 | 6 | | True_of_IOL31B | TRUE | | | | J2 | F9 | F2 | J2 | B8 | N4 | | M6 | J2 | F2 | |
| IOL31B | I/O | DQ2 | 6 | | Comp_of_IOL31A | TRUE | | | | J1 | E11 | F1 | J1 | A8 | N3 | | M5 | J1 | F1 | |
| IOL33A | I/O | DQ2 | 6 | | True_of_IOL33B | TRUE | 27 | 27 | | J4 | B9 | G3 | K6 | D8 | T2 | M1 | P2 | K6 | G3 | |
| IOL33B | I/O | DQ2 | 6 | | Comp_of_IOL33A | TRUE | 28 | 28 | | J3 | A10 | G1 | L6 | C8 | R2 | N1 | R1 | L6 | G1 | |
| IOL35A | I/O | DQ2 | 6 | | True_of_IOL35B | TRUE | | | | K2 | F8 | | K2 | B6 | P3 | M3 | P4 | K2 | | |
| IOL35B | I/O | DQ2 | 6 | | Comp_of_IOL35A | TRUE | | | | K1 | D9 | | K1 | A6 | R3 | N3 | N5 | K1 | | |
| IOL38A | I/O | DQ2 | 6 | | True_of_IOL38B | TRUE | | | | | D8 | J3 | N2 | C7 | Y1 | | R2 | N2 | J3 | |
| IOL38B | I/O | DQ2 | 6 | | Comp_of_IOL38A | TRUE | | | | | E9 | J1 | N1 | A7 | Y2 | | T1 | N1 | J1 | |
| IOL40A | I/O | DQ2 | 6 | | True_of_IOL40B | TRUE | | | | | B7 | | K5 | G8 | | | T2 | K5 | | |
| IOL40B | I/O | DQ2 | 6 | | Comp_of_IOL40A | TRUE | | | | | C7 | | L4 | F8 | | | U1 | L4 | | |
| IOL42A | I/O | DQ2 | 6 | | True_of_IOL42B | TRUE | | 32 | 32 | | | | | P2 | F7 | | R5 | P2 | | |
| IOL42B | I/O | DQ2 | 6 | | Comp_of_IOL42A | TRUE | | 33 | 33 | | | | | P1 | E6 | | P7 | P1 | | |
| IOL44A | I/O | DQ2 | 6 | | True_of_IOL44B | TRUE | | | | | | | | C5 | V3 | | T3 | | | |
| IOL44B | I/O | DQ2 | 6 | | Comp_of_IOL44A | TRUE | | | | | | | | A5 | W3 | | T4 | | | |
| IOL47A/LPLL2_T_fb | I/O | DQ3 | 6 | LPLL2_T_fb | True_of_IOL47B | TRUE | 15 | | | M2 | C4 | R2 | | B3 | P5 | | U2 | | R2 | |
| IOL47B/LPLL2_C_fb | I/O | DQ3 | 6 | LPLL2_C_fb | Comp_of_IOL47A | TRUE | 16 | | | M1 | B5 | R1 | | A3 | R5 | | V1 | | R1 | |
| IOL49A | I/O | DQ3 | 6 | | True_of_IOL49B | TRUE | 17 | | | | | L3 | | | | | Y1 | | L3 | |
| IOL49B | I/O | DQ3 | 6 | | Comp_of_IOL49A | TRUE | 18 | | | | | L1 | | | | | AA1 | | L1 | |
| IOL51A | I/O | DQ3 | 6 | | True_of_IOL51B | TRUE | 19 | | | | | P2 | | B2 | | R2 | W3 | | P2 | |
| IOL51B | I/O | DQ3 | 6 | | Comp_of_IOL51A | TRUE | 20 | | | | | P1 | | A2 | | R3 | Y2 | | P1 | |
| IOL53A | I/O | DQ3 | 6 | | True_of_IOL53B | TRUE | | | | | E6 | M5 | | D4 | V5 | | Y3 | | M5 | |

| 管脚名 | 功能 | DQS | BANK | 配置功能 | 差分Pair | LVDS | QN88 | LQ144 | EQ144 | MG196 | PG256 | PG256S | PG256C | UG324 | PG484 | PG256E | UG484 | PG256CF | PG256SF |
|-----------------------------|-----|------|------|---------|----------------|------|------|-------|-------|-------|-------|--------|--------|-------|-------|--------|-------|---------|---------|
| IOL53B | I/O | DQ3 | 6 | | Comp_of_IOL53A | TRUE | | | | | D7 | N4 | | C4 | U5 | | W4 | | N4 |
| BANK5 True LVDS Pair | | | | | | | | | | | | | | | | | | | |
| IOB12A | I/O | DQ5 | 5 | | True_of_IOB12B | TRUE | | 44 | 44 | | E2 | P4 | N3 | D2 | | | V8 | N3 | P4 |
| IOB12B | I/O | DQ5 | 5 | | Comp_of_IOB12A | TRUE | | 45 | 45 | | E3 | T4 | P3 | D1 | | | U8 | P3 | T4 |
| IOB14A | I/O | DQ5 | 5 | | True_of_IOB14B | TRUE | 29 | 46 | 46 | | C1 | | R3 | F4 | Y6 | P12 | AA8 | R3 | |
| IOB14B | I/O | DQ5 | 5 | | Comp_of_IOB14A | TRUE | 30 | 47 | 47 | | D2 | | T3 | F3 | AA6 | P11 | AB8 | T3 | |
| IOB16A | I/O | DQ5 | 5 | | True_of_IOB16B | TRUE | | | | N12 | E1 | L8 | R4 | E3 | W7 | | AA6 | R4 | L8 |
| IOB16B | I/O | DQ5 | 5 | | Comp_of_IOB16A | TRUE | | | | P12 | F2 | L7 | T4 | E1 | W8 | | AB6 | T4 | L7 |
| IOB18A | I/O | DQ5 | 5 | | True_of_IOB18B | TRUE | 31 | | | | F4 | N5 | N5 | H6 | Y7 | | AA7 | N5 | N5 |
| IOB18B | I/O | DQ5 | 5 | | Comp_of_IOB18A | TRUE | 32 | | | | G6 | P5 | N6 | H5 | Y8 | | AB7 | N6 | P5 |
| IOB20A | I/O | DQ5 | 5 | | True_of_IOB20B | TRUE | | 50 | 50 | N10 | G5 | R5 | M6 | F2 | W9 | | Y9 | M6 | R5 |
| IOB20B | I/O | DQ5 | 5 | | Comp_of_IOB20A | TRUE | | 51 | 51 | P10 | G4 | T5 | P6 | F1 | Y9 | | Y10 | P6 | T5 |
| IOB22A | I/O | DQ5 | 5 | | True_of_IOB22B | TRUE | | 52 | 52 | | F5 | P6 | R5 | G3 | AA7 | T5 | V10 | R5 | P6 |
| IOB22B | I/O | DQ5 | 5 | | Comp_of_IOB22A | TRUE | | 54 | 54 | | H6 | T6 | T5 | G1 | AB7 | T6 | W10 | T5 | T6 |
| IOB24A | I/O | DQ5 | 5 | | True_of_IOB24B | TRUE | 33 | | | L8 | G1 | R7 | R6 | L7 | W10 | | AA11 | R6 | R7 |
| IOB24B | I/O | DQ5 | 5 | | Comp_of_IOB24A | TRUE | 34 | | | M8 | H2 | T7 | T6 | K6 | W11 | | AB11 | T6 | T7 |
| IOB26A | I/O | DQ5 | 5 | | True_of_IOB26B | TRUE | | | | | H4 | | L8 | H4 | Y10 | | AA10 | L8 | |
| IOB26B | I/O | DQ5 | 5 | | Comp_of_IOB26A | TRUE | | | | | J6 | | M8 | H3 | Y11 | | AB10 | M8 | |
| IOB2A | I/O | DQ4 | 5 | | True_of_IOB2B | TRUE | | | | | A4 | | | C2 | U6 | P9 | AA2 | | |
| IOB2B | I/O | DQ4 | 5 | | Comp_of_IOB2A | TRUE | | | | | C5 | | | C1 | U7 | P10 | AB2 | | |
| IOB4A | I/O | DQ4 | 5 | | True_of_IOB4B | TRUE | | | | | A3 | M4 | | F6 | V6 | | AA3 | | M4 |
| IOB4B | I/O | DQ4 | 5 | | Comp_of_IOB4A | TRUE | | | | | B4 | M3 | | F5 | V7 | | AB3 | | M3 |
| IOB6A | I/O | DQ4 | 5 | | True_of_IOB6B | TRUE | 25 | 40 | 40 | | | | | E4 | Y4 | | U7 | | |
| IOB6B | I/O | DQ4 | 5 | | Comp_of_IOB6A | TRUE | 26 | 41 | 41 | | | | | D3 | Y5 | | T8 | | |
| IOB8A | I/O | DQ4 | 5 | | True_of_IOB8B | TRUE | 27 | | | | B1 | M6 | R8 | H7 | | T12 | AA5 | R8 | M6 |
| IOB8B | I/O | DQ4 | 5 | | Comp_of_IOB8A | TRUE | 28 | | | | C2 | N6 | T8 | G6 | | T11 | AB5 | T8 | N6 |
| BANK4 True LVDS Pair | | | | | | | | | | | | | | | | | | | |
| IOB30A/GCLKT_4 | I/O | DQ6 | 4 | GCLKT_4 | True_of_IOB30B | TRUE | 35 | 56 | 56 | N7 | L2 | P8 | R9 | L2 | AB12 | K15 | AB12 | R9 | P8 |
| IOB30B/GCLKC_4 | I/O | DQ6 | 4 | GCLKC_4 | Comp_of_IOB30A | TRUE | 36 | 57 | 57 | P7 | M1 | T8 | T9 | L1 | AA12 | L15 | AA12 | T9 | T8 |
| IOB32A | I/O | DQ6 | 4 | | True_of_IOB32B | TRUE | | | | | H3 | | K9 | H2 | W12 | | V13 | K9 | |
| IOB32B | I/O | DQ6 | 4 | | Comp_of_IOB32A | TRUE | | | | | H1 | | L9 | H1 | W13 | | U13 | L9 | |
| IOB34A | I/O | DQ6 | 4 | | True_of_IOB34B | TRUE | 37 | 60 | 60 | N6 | J2 | M9 | M9 | J3 | AB15 | | Y13 | M9 | M9 |
| IOB34B | I/O | DQ6 | 4 | | Comp_of_IOB34A | TRUE | 38 | 61 | 61 | P6 | K1 | N8 | N9 | J1 | AA15 | | W13 | N9 | N8 |
| IOB36A | I/O | DQ6 | 4 | | True_of_IOB36B | TRUE | | | | | K3 | R9 | R10 | K2 | AB16 | | T13 | R10 | R9 |
| IOB36B | I/O | DQ6 | 4 | | Comp_of_IOB36A | TRUE | | | | | K2 | T9 | T10 | K1 | AA16 | | T14 | T10 | T9 |
| IOB38A | I/O | DQ6 | 4 | | True_of_IOB38B | TRUE | | 62 | 62 | L4 | L1 | L10 | R11 | P2 | V14 | L16 | Y14 | R11 | L10 |
| IOB38B | I/O | DQ6 | 4 | | Comp_of_IOB38A | TRUE | | 63 | 63 | M4 | L3 | M10 | T11 | P1 | V15 | M16 | W14 | T11 | M10 |
| IOB40A | I/O | DQ6 | 4 | | True_of_IOB40B | TRUE | 39 | 64 | 64 | N4 | K5 | N9 | R12 | M3 | AA17 | | Y15 | R12 | N9 |
| IOB40B | I/O | DQ6 | 4 | | Comp_of_IOB40A | TRUE | 40 | 65 | 65 | P4 | L4 | P9 | T12 | M1 | Y17 | | W15 | T12 | P9 |
| IOB42A | I/O | DQ6 | 4 | | True_of_IOB42B | TRUE | | 66 | 66 | | M3 | | L10 | N2 | | | V15 | L10 | |
| IOB42B | I/O | DQ6 | 4 | | Comp_of_IOB42A | TRUE | | 67 | 67 | | N1 | | K10 | N1 | | | U15 | K10 | |
| IOB44A | I/O | DQ6 | 4 | | True_of_IOB44B | TRUE | | | | | R1 | | | T2 | Y16 | | Y17 | | |
| IOB44B | I/O | DQ6 | 4 | | Comp_of_IOB44A | TRUE | | | | | P2 | | | T1 | W16 | | V16 | | |
| IOB48A | I/O | DQS7 | 4 | | True_of_IOB48B | TRUE | | 68 | 68 | | R3 | | R13 | U2 | Y19 | | AB18 | R13 | |
| IOB48B | I/O | DQS7 | 4 | | Comp_of_IOB48A | TRUE | | 69 | 69 | | T2 | | T13 | U1 | Y18 | | AA18 | T13 | |
| IOB50A | I/O | DQ7 | 4 | | True_of_IOB50B | TRUE | | | | | P5 | | M10 | L6 | V16 | | T9 | M10 | |
| IOB50B | I/O | DQ7 | 4 | | Comp_of_IOB50A | TRUE | | | | | R5 | | N11 | M5 | U16 | | U9 | N11 | |
| IOB52A | I/O | DQ7 | 4 | | True_of_IOB52B | TRUE | | | | | R4 | N12 | T14 | P4 | | R16 | AB20 | T14 | N12 |
| IOB52B | I/O | DQ7 | 4 | | Comp_of_IOB52A | TRUE | | | | | T3 | P12 | T15 | P3 | | R15 | AA20 | T15 | P12 |

| 管脚名 | 功能 | DQS | BANK | 配置功能 | 差分Pair | LVDS | QN88 | LQ144 | EQ144 | MG196 | PG256 | PG256S | PG256C | UG324 | PG484 | PG256E | UG484 | PG256CF | PG256SF |
|-----------------------------|-----|-------|------|---------------|----------------|------|------|-------|-------|-------|-------|--------|--------|-------|-------|--------|-------|---------|---------|
| I0B54A | I/O | DQ7 | 4 | | True_of_I0B54B | TRUE | | | | | R6 | M12 | P14 | N4 | V17 | | AB21 | P14 | M12 |
| I0B54B | I/O | DQ7 | 4 | | Comp_of_I0B54A | TRUE | | | | | T5 | M11 | L11 | N3 | V18 | | AA21 | L11 | M11 |
| BANK3 True LVDS Pair | | | | | | | | | | | | | | | | | | | |
| I0R29A/GCLKT_3 | I/O | DQ9 | 3 | GCLKT_3 | True_of_I0R29B | TRUE | | | | H13 | T7 | J13 | M15 | R8 | P22 | | M22 | M15 | J13 |
| I0R29B/GCLKC_3 | I/O | DQ9 | 3 | GCLKC_3 | Comp_of_I0R29A | TRUE | | | | H14 | R8 | K14 | M16 | T8 | R22 | | M21 | M16 | K14 |
| I0R31A/MODE2 | I/O | DQ9 | 3 | MODE2 | True_of_I0R31B | TRUE | | 143 | 143 | | C15 | | G12 | N12 | U21 | | M19 | G12 | N11 |
| I0R31B/RECONFIG_N | I/O | DQ9 | 3 | RECONFIG_N | Comp_of_I0R31A | TRUE | 9 | 20 | 20 | N1 | B10 | | H5 | V2 | T21 | | P21 | H5 | T2 |
| I0R33A/MI/D7 | I/O | DQ9 | 3 | MI/D7 | True_of_I0R33B | TRUE | 62 | 96 | 96 | N11 | P10 | P10 | H2 | R13 | P19 | H13 | N17 | | |
| I0R33B/MO/D6 | I/O | DQ9 | 3 | MO/D6 | Comp_of_I0R33A | TRUE | 61 | 95 | 95 | P11 | R10 | T10 | C1 | T13 | P20 | H14 | N18 | | |
| I0R35A/FASTRD_N/D3 | I/O | DQ9 | 3 | FASTRD_N/D3 | True_of_I0R35B | TRUE | 57 | 92 | 92 | P9 | R9 | K12 | | R15 | R20 | | R22 | | |
| I0R35B/SI/D2 | I/O | DQ9 | 3 | SI/D2 | Comp_of_I0R35A | TRUE | | 90 | 90 | L12 | T10 | K11 | | V9 | R21 | | R21 | | |
| I0R38A/DIN/CLKHOLD_N | I/O | DQ9 | 3 | DIN/CLKHOLD_N | True_of_I0R38B | TRUE | 54 | 86 | 86 | J13 | T9 | J14 | | U8 | T20 | G14 | T22 | H2 | P10 |
| I0R38B/DOUT/WE_N | I/O | DQ9 | 3 | DOUT/WE_N | Comp_of_I0R38A | TRUE | 53 | 85 | 85 | J14 | P9 | J16 | | V8 | U20 | G13 | T21 | C1 | T10 |
| I0R40A | I/O | DQ9 | 3 | | True_of_I0R40B | TRUE | | | | J11 | N8 | K15 | | U7 | | | P17 | | T3 |
| I0R40B | I/O | DQ9 | 3 | | Comp_of_I0R40A | TRUE | | | | J12 | L9 | K16 | | V7 | | | P16 | | K11 |
| I0R42A | I/O | DQ9 | 3 | | True_of_I0R42B | TRUE | | 84 | 84 | K13 | P8 | M15 | K12 | T6 | | | V22 | K12 | M15 |
| I0R42B | I/O | DQ9 | 3 | | Comp_of_I0R42A | TRUE | | 83 | 83 | K14 | T8 | M16 | L12 | V6 | | | W22 | L12 | M16 |
| I0R44A | I/O | DQ9 | 3 | | True_of_I0R44B | TRUE | | | | L13 | M6 | L14 | M12 | R7 | Y22 | | | M12 | K15 |
| I0R44B | I/O | DQ9 | 3 | | Comp_of_I0R44A | TRUE | | | | L14 | L8 | L16 | N13 | T7 | AA22 | | | N13 | K16 |
| I0R47A/RPLL2_T_fb | I/O | DQ8 | 3 | RPLL2_T_fb | True_of_I0R47B | TRUE | | | | | M7 | R15 | J12 | R3 | Y21 | | T19 | J12 | M13 |
| I0R47B/RPLL2_C_fb | I/O | DQ8 | 3 | RPLL2_C_fb | Comp_of_I0R47A | TRUE | | | | | N7 | R16 | J14 | T3 | AA21 | | T18 | J14 | M14 |
| I0R49A | I/O | DQ8 | 3 | | True_of_I0R49B | TRUE | 49 | 80 | 80 | | R7 | | L15 | | | F16 | T17 | L15 | |
| I0R49B | I/O | DQ8 | 3 | | Comp_of_I0R49A | TRUE | 48 | 79 | 79 | | P7 | | L16 | | | F15 | U20 | L16 | |
| I0R51A | I/O | DQ8 | 3 | | True_of_I0R51B | TRUE | | | | | | T14 | N15 | N5 | | B15 | U19 | N15 | T14 |
| I0R51B | I/O | DQ8 | 3 | | Comp_of_I0R51A | TRUE | | | | | | T13 | N16 | P6 | | C14 | U18 | N16 | T13 |
| I0R53A | I/O | DQ8 | 3 | | True_of_I0R53B | TRUE | | | | | P6 | R12 | R16 | T4 | T17 | | V18 | R16 | R12 |
| I0R53B | I/O | DQ8 | 3 | | Comp_of_I0R53A | TRUE | | | | | T6 | T12 | P16 | V4 | U17 | | W20 | P16 | T12 |
| BANK2 True LVDS Pair | | | | | | | | | | | | | | | | | | | |
| I0R11A | I/O | DQ10 | 2 | | True_of_I0R11B | TRUE | | | | | R12 | F13 | D15 | U11 | G19 | | | D15 | F13 |
| I0R11B | I/O | DQ10 | 2 | | Comp_of_I0R11A | TRUE | | | | | P13 | F14 | D16 | V11 | G20 | | | D16 | F14 |
| I0R13A | I/O | DQ10 | 2 | | True_of_I0R13B | TRUE | | | | C12 | | C15 | F13 | R11 | | | H22 | F13 | C15 |
| I0R13B | I/O | DQ10 | 2 | | Comp_of_I0R13A | TRUE | | | | C13 | | C16 | F14 | T11 | | | H21 | F14 | C16 |
| I0R15A | I/O | DQ10 | 2 | | True_of_I0R15B | TRUE | | | | | | E15 | | | H20 | | H19 | | E15 |
| I0R15B | I/O | DQ10 | 2 | | Comp_of_I0R15A | TRUE | | | | | | E16 | | | H21 | | H18 | | E16 |
| I0R17A | I/O | DQ10 | 2 | | True_of_I0R17B | TRUE | | | | E13 | R11 | F15 | | T12 | F22 | | J18 | | F15 |
| I0R17B | I/O | DQ10 | 2 | | Comp_of_I0R17A | TRUE | | | | E14 | T12 | F16 | | V12 | E22 | | J19 | | F16 |
| I0R20A | I/O | DQ10 | 2 | | True_of_I0R20B | TRUE | | 102 | 102 | | R13 | G14 | | N10 | H22 | | J16 | | G14 |
| I0R20B | I/O | DQ10 | 2 | | Comp_of_I0R20A | TRUE | | 101 | 101 | | T14 | G16 | | P11 | J22 | | J17 | | G16 |
| I0R22A | I/O | DQS10 | 2 | | True_of_I0R22B | TRUE | | 100 | 100 | F11 | M10 | H15 | | M10 | K19 | | K19 | | H15 |
| I0R22B | I/O | DQS10 | 2 | | Comp_of_I0R22A | TRUE | | 99 | 99 | F12 | N11 | H16 | | N9 | L19 | | K18 | | H16 |
| I0R24A | I/O | DQ10 | 2 | | True_of_I0R24B | TRUE | | | | G13 | T11 | G12 | F15 | R10 | L21 | J13 | K17 | F15 | G12 |
| I0R24B | I/O | DQ10 | 2 | | Comp_of_I0R24A | TRUE | | | | G14 | P11 | H11 | F16 | T10 | M21 | J14 | K16 | F16 | H11 |
| I0R26A/TCK | I/O | DQ10 | 2 | TCK | True_of_I0R26B | TRUE | 6 | 14 | 14 | B13 | A7 | C14 | H3 | A17 | N20 | B1 | L20 | H3 | C14 |
| I0R26B/TDI | I/O | DQ10 | 2 | TDI | Comp_of_I0R26A | TRUE | 7 | 16 | 16 | A13 | A6 | C12 | H4 | D15 | M20 | C1 | L21 | H4 | C12 |
| I0R2A | I/O | DQ11 | 2 | | True_of_I0R2B | TRUE | | | | | | E13 | | U16 | F18 | | C22 | | E13 |
| I0R2B | I/O | DQ11 | 2 | | Comp_of_I0R2A | TRUE | | | | | | E12 | | V16 | F19 | | G16 | | E12 |

| 管脚名 | 功能 | DQS | BANK | 配置功能 | 差分Pair | LVDS | QN88 | LQ144 | EQ144 | MG196 | PG256 | PG256S | PG256C | UG324 | PG484 | PG256E | UG484 | PG256CF | PG256SF | |
|-----------------------------|-----|-------|------|------------|----------------|------|------|-------|-------|-------|-------|--------|--------|-------|-------|--------|-------|---------|---------|-----|
| IOR4A | I/O | DQ11 | 2 | | True_of_IOR4B | TRUE | | | | | | B15 | | U15 | G17 | | D22 | | B15 | |
| IOR4B | I/O | DQ11 | 2 | | Comp_of_IOR4A | TRUE | | | | | | B16 | | V15 | G18 | | D21 | | B16 | |
| IOR6A | I/O | DQS11 | 2 | | True_of_IOR6B | TRUE | | | | | | F12 | C15 | | D19 | | E22 | C15 | F12 | |
| IOR6B | I/O | DQS11 | 2 | | Comp_of_IOR6A | TRUE | | | | | | G11 | C16 | | D20 | | E21 | C16 | G11 | |
| IOR8A/RPLL1_T_fb | I/O | DQ11 | 2 | RPLL1_T_fb | True_of_IOR8B | TRUE | | | | P12 | | | | U13 | B21 | | E19 | | | |
| IOR8B/RPLL1_C_fb | I/O | DQ11 | 2 | RPLL1_C_fb | Comp_of_IOR8A | TRUE | | | | T13 | | | | V13 | C21 | | E20 | | | |
| BANK1 True LVDS Pair | | | | | | | | | | | | | | | | | | | | |
| IOT30A/GCLKT_1 | I/O | DQ13 | 1 | GCLKT_1 | True_of_IOT30B | TRUE | 77 | 121 | 121 | D8 | K14 | E7 | D9 | L15 | D11 | D9 | B12 | D9 | E7 | |
| IOT30B/GCLKC_1 | I/O | DQ13 | 1 | GCLKC_1 | Comp_of_IOT30A | TRUE | 76 | 120 | 120 | C8 | K15 | E8 | C9 | L16 | D12 | C9 | A12 | C9 | E8 | |
| IOT32A | I/O | DQ13 | 1 | | True_of_IOT32B | TRUE | | | | B8 | J11 | E10 | B10 | J16 | E12 | | G12 | B10 | E10 | |
| IOT32B | I/O | DQ13 | 1 | | Comp_of_IOT32A | TRUE | | | | A8 | L12 | C10 | A10 | J18 | E13 | | F12 | A10 | C10 | |
| IOT34A | I/O | DQ13 | 1 | | True_of_IOT34B | TRUE | 75 | | | B9 | L16 | | | B11 | L17 | A15 | | E13 | B11 | |
| IOT34B | I/O | DQ13 | 1 | | Comp_of_IOT34A | TRUE | 74 | | | A9 | L14 | | | A11 | L18 | B15 | | F13 | A11 | |
| IOT36A | I/O | DQ13 | 1 | | True_of_IOT36B | TRUE | | | | | K13 | | | B12 | M16 | C14 | | A14 | B12 | |
| IOT36B | I/O | DQ13 | 1 | | Comp_of_IOT36A | TRUE | | | | | K12 | | | A12 | M18 | C15 | | B14 | A12 | |
| IOT38A | I/O | DQ13 | 1 | | True_of_IOT38B | TRUE | | 119 | 119 | B11 | K11 | | | E10 | N17 | A17 | C11 | A15 | E10 | |
| IOT38B | I/O | DQ13 | 1 | | Comp_of_IOT38A | TRUE | | 118 | 118 | A11 | L13 | | | E11 | N18 | B17 | B11 | B15 | E11 | |
| IOT40A | I/O | DQ13 | 1 | | True_of_IOT40B | TRUE | 73 | 117 | 117 | B12 | M14 | D8 | B14 | P17 | A18 | | | C15 | B14 | D8 |
| IOT40B | I/O | DQ13 | 1 | | Comp_of_IOT40A | TRUE | 72 | 116 | 116 | A12 | M15 | C8 | A14 | P18 | A19 | | | D15 | A14 | C8 |
| IOT42A | I/O | DQ13 | 1 | | True_of_IOT42B | TRUE | | 115 | 115 | D11 | | | | C11 | B13 | U17 | | A13 | B13 | C11 |
| IOT42B | I/O | DQ13 | 1 | | Comp_of_IOT42A | TRUE | | 114 | 114 | C11 | | | | A11 | A13 | U18 | | B13 | A13 | A11 |
| IOT44A | I/O | DQ13 | 1 | | True_of_IOT44B | TRUE | 71 | | | | D14 | F9 | D12 | T17 | C18 | | | A17 | D12 | F9 |
| IOT44B | I/O | DQ13 | 1 | | Comp_of_IOT44A | TRUE | 70 | | | | E15 | D9 | D11 | T18 | C19 | | | B18 | D11 | D9 |
| IOT48A | I/O | DQS12 | 1 | | True_of_IOT48B | TRUE | | 113 | 113 | | N15 | B12 | B9 | M14 | D16 | | | A18 | B9 | B12 |
| IOT48B | I/O | DQS12 | 1 | | Comp_of_IOT48A | TRUE | | 112 | 112 | | P16 | A12 | A9 | N14 | E16 | | | B19 | A9 | A12 |
| IOT50A | I/O | DQ12 | 1 | | True_of_IOT50B | TRUE | | 111 | 111 | | | | | C13 | | | E14 | | G14 | C13 |
| IOT50B | I/O | DQ12 | 1 | | Comp_of_IOT50A | TRUE | | 110 | 110 | | | | | A13 | | | E15 | | F14 | A13 |
| IOT52A | I/O | DQ12 | 1 | | True_of_IOT52B | TRUE | | | | | N16 | F10 | A15 | L14 | | | | A20 | A15 | F10 |
| IOT52B | I/O | DQ12 | 1 | | Comp_of_IOT52A | TRUE | | | | | N14 | E11 | F11 | M13 | | | | B21 | F11 | E11 |
| IOT54A | I/O | DQ12 | 1 | | True_of_IOT54B | TRUE | | | | | P15 | B14 | F9 | P15 | A22 | D11 | A21 | F9 | B14 | |
| IOT54B | I/O | DQ12 | 1 | | Comp_of_IOT54A | TRUE | | | | | R16 | A14 | F10 | P16 | B22 | D12 | B22 | F10 | A14 | |
| BANK0 True LVDS Pair | | | | | | | | | | | | | | | | | | | | |
| IOT12A | I/O | DQ14 | 0 | | True_of_IOT12B | TRUE | | 134 | 134 | | | F12 | B6 | | H12 | | | B5 | | B6 |
| IOT12B | I/O | DQ14 | 0 | | Comp_of_IOT12A | TRUE | | 133 | 133 | | | G13 | A6 | | G13 | | | A6 | | A6 |
| IOT14A | I/O | DQ14 | 0 | | True_of_IOT14B | TRUE | | 132 | 132 | | | G11 | F7 | | E16 | A2 | | B6 | | F7 |
| IOT14B | I/O | DQ14 | 0 | | Comp_of_IOT14A | TRUE | | 131 | 131 | | | H12 | E6 | | E18 | A3 | | A7 | | E6 |
| IOT16A | I/O | DQ14 | 0 | | True_of_IOT16B | TRUE | | | | B2 | G16 | C7 | E6 | K12 | C7 | | | C8 | E6 | C7 |
| IOT16B | I/O | DQ14 | 0 | | Comp_of_IOT16A | TRUE | | | | A2 | H15 | A7 | E7 | K13 | C8 | | | D8 | E7 | A7 |
| IOT18A | I/O | DQ14 | 0 | | True_of_IOT18B | TRUE | | | | B3 | H13 | D6 | B4 | F17 | B6 | | | B8 | B4 | D6 |
| IOT18B | I/O | DQ14 | 0 | | Comp_of_IOT18A | TRUE | | | | A3 | J12 | C6 | A4 | F18 | A6 | | | A8 | A4 | C6 |
| IOT20A | I/O | DQ14 | 0 | | True_of_IOT20B | TRUE | | | | | | H14 | | B5 | H13 | D9 | | F9 | B5 | |
| IOT20B | I/O | DQ14 | 0 | | Comp_of_IOT20A | TRUE | | | | | | H16 | | A2 | H14 | D10 | | G9 | A2 | |
| IOT22A | I/O | DQ14 | 0 | | True_of_IOT22B | TRUE | | | | B5 | J16 | B8 | | G16 | C9 | | | F10 | | B8 |
| IOT22B | I/O | DQ14 | 0 | | Comp_of_IOT22A | TRUE | | | | A5 | J14 | A8 | | G18 | C10 | | | E10 | | A8 |
| IOT24A | I/O | DQ14 | 0 | | True_of_IOT24B | TRUE | | | | B6 | J15 | C9 | F8 | J13 | A9 | B7 | | B10 | F8 | C9 |
| IOT24B | I/O | DQ14 | 0 | | Comp_of_IOT24A | TRUE | | | | A6 | K16 | A9 | E8 | K14 | A10 | A7 | | A10 | E8 | A9 |
| IOT26A | I/O | DQ14 | 0 | | True_of_IOT26B | TRUE | | | | | | | | B8 | L12 | A11 | C6 | B11 | B8 | |
| IOT26B | I/O | DQ14 | 0 | | Comp_of_IOT26A | TRUE | | | | | | | | A8 | L13 | A12 | C7 | A11 | A8 | |
| IOT2A | I/O | DQ15 | 0 | | True_of_IOT2B | TRUE | | | | | | | | C4 | F15 | D5 | | B1 | | C4 |

| 管脚名 | 功能 | DQS | BANK | 配置功能 | 差分Pair | LVDS | QN88 | LQ144 | EQ144 | MG196 | PG256 | PG256S | PG256C | UG324 | PG484 | PG256E | UG484 | PG256CF | PG256SF |
|-------|-----|------|------|------|---------------|------|------|-------|-------|-------|-------|--------|--------|-------|-------|--------|-------|---------|---------|
| IOT2B | I/O | DQ15 | 0 | | Comp_of_IOT2A | TRUE | | | | | | A4 | | F16 | D6 | | A2 | | A4 |
| IOT4A | I/O | DQ15 | 0 | | True_of_IOT4B | TRUE | 86 | 140 | 140 | | D16 | B5 | D3 | C17 | D4 | A2 | C3 | D3 | B5 |
| IOT4B | I/O | DQ15 | 0 | | Comp_of_IOT4A | TRUE | 85 | 139 | 139 | | E14 | A5 | C3 | C18 | C4 | A3 | C4 | C3 | A5 |
| IOT6A | I/O | DQ15 | 0 | | True_of_IOT6B | TRUE | 84 | 138 | 138 | | E16 | | D6 | F14 | F6 | D4 | B4 | D6 | |
| IOT6B | I/O | DQ15 | 0 | | Comp_of_IOT6A | TRUE | 83 | 137 | 137 | | F15 | | D5 | G14 | F7 | C4 | A5 | D5 | |
| IOT8A | I/O | DQ15 | 0 | | True_of_IOT8B | TRUE | | | | | F13 | | F7 | D17 | | E6 | B3 | F7 | |
| IOT8B | I/O | DQ15 | 0 | | Comp_of_IOT8A | TRUE | | | | | G12 | | F6 | D18 | | D6 | A4 | F6 | |

| 注! | | | |
|--------------------------------------------------------|-------------------------------------|-------|--------|
| [1]使用True LVDS的Bank VCCO建议设置为2.5V。 | | | |
| [2]建议把VCCX和电压最高的VCCO接在一起使用。 | | | |
| GW2A-18 QN88封装电源供电要求 | | | |
| 名称 | 描述 | 最小值 | 最大值 |
| VCC | 核电压 | 0.95V | 1.05V |
| VCCPLLL1 | 左边锁相环1供电电压 | 0.95V | 1.05V |
| VCCPLLR1 | 右边锁相环1供电电压 | 0.95V | 1.05V |
| VCCX/VCCO2/VCCO6 | I/O Bank电压, VCCX/VCCO2/VCCO6内部短接在一起 | 2.7V | 3.465V |
| VCCO0, VCCO1, VCCO3, VCCO4, VCCO5, VCCO7 | I/O Bank 电压 | 1.14V | 3.465V |
| GW2A-18 LQ144/EQ144封装电源供电要求 | | | |
| 名称 | 描述 | 最小值 | 最大值 |
| VCC/VCCPLLL1 | VCCPLLL1与VCC内部短接在一起 | 0.95V | 1.05V |
| VCCPLLL0 | 左边锁相环0供电电压 | 0.95V | 1.05V |
| VCCPLLR0/1 | 右边锁相环0/1供电电压 | 0.95V | 1.05V |
| VCCX/VCCO2/VCCO6 | I/O Bank电压, VCCX/VCCO2/VCCO6内部短接在一起 | 2.7V | 3.465V |
| VCCO0, VCCO1, VCCO3, VCCO4, VCCO5, VCCO7 | I/O Bank 电压 | 1.14V | 3.465V |
| GW2A-18 MG196封装电源供电要求 | | | |
| 名称 | 描述 | 最小值 | 最大值 |
| VCC/VCCPLLL0/VCCPLLL1 | 核电压 | 0.95V | 1.05V |
| VCCO0, VCCO1, VCCO2, VCCO3, VCCO4, VCCO5, VCCO6, VCCO7 | I/O Bank 电压 | 1.14V | 3.465V |
| VCCX | 辅助电压 | 2.7V | 3.465V |
| GW2A-18 PG256/PG484封装电源供电要求 | | | |
| 名称 | 描述 | 最小值 | 最大值 |
| VCC | 核电压 | 0.95V | 1.05V |
| VCCPLLL | 左边锁相环供电电压 | 0.95V | 1.05V |
| VCCPLLR | 右边锁相环供电电压 | 0.95V | 1.05V |
| VCCO0, VCCO1, VCCO2, VCCO3, VCCO4, VCCO5, VCCO6, VCCO7 | I/O Bank voltage | 1.14V | 3.465V |
| VCCX | 辅助电压 | 2.7V | 3.465V |

| 注! | | | |
|--------------------------------------------------------|---------------------------|-------|--------|
| [1]使用True LVDS的Bank VCCO建议设置为2.5V。 | | | |
| [2]建议把VCCX和电压最高的VCCO接在一起使用。 | | | |
| GW2A-18 PG256S封装电源供电要求 | | | |
| 名称 | 描述 | 最小值 | 最大值 |
| VCC | 核电压 | 0.95V | 1.05V |
| VCCPLLL | 左边锁相环供电电压 | 0.95V | 1.05V |
| VCCPLLR | 右边锁相环供电电压 | 0.95V | 1.05V |
| VCCO4/VCCO5 | VCCO4/VCCO5内部连接在一起, 供电要统一 | 1.14V | 3.465V |
| VCCO0, VCCO1, VCCO2, VCCO3, VCCO6, VCCO7 | I/O Bank 电压 | 1.14V | 3.465V |
| VCCX | 辅助电压 | 2.7V | 3.465V |
| GW2A-18 PG256C封装电源供电要求 | | | |
| 名称 | 描述 | 最小值 | 最大值 |
| VCC | 核电压 | 0.95V | 1.05V |
| VCCPLLL | 左边锁相环供电电压 | 0.95V | 1.05V |
| VCCPLLR | 右边锁相环供电电压 | 0.95V | 1.05V |
| VCCO0, VCCO1, VCCO2, VCCO3, VCCO4, VCCO5, VCCO6 | I/O Bank电压 | 1.14V | 3.465V |
| VCCX/VCCO7 | VCCX/VCCO7内部短接在一起 | 2.7V | 3.465V |
| GW2A-18 UG324封装电源供电要求 | | | |
| 名称 | 描述 | 最小值 | 最大值 |
| VCC | 核电压 | 0.95V | 1.05V |
| VCCPLLL | 左边锁相环供电电压 | 0.95V | 1.05V |
| VCCPLLR | 右边锁相环供电电压 | 0.95V | 1.05V |
| VCCO0, VCCO1, VCCO2, VCCO3, VCCO4, VCCO5, VCCO6, VCCO7 | I/O Bank电压 | 1.14V | 3.465V |
| VCCX | 辅助电压 | 2.7V | 3.465V |

| 注! | | | |
|--------------------------------------------------------|--------------------------------|-------|--------|
| [1]使用True LVDS的Bank VCCO建议设置为2.5V。 | | | |
| [2]建议把VCCX和电压最高的VCCO接在一起使用。 | | | |
| GW2A-18 PG256E封装电源供电要求 | | | |
| 名称 | 描述 | 最小值 | 最大值 |
| VCC | 核电压 | 0.95V | 1.05V |
| VCCPLLL | 左边锁相环供电电压 | 0.95V | 1.05V |
| VCCPLLR | 右边锁相环供电电压 | 0.95V | 1.05V |
| VCCO0, VCCO1, VCCO2, VCCO3, VCCO4, VCCO5, VCCO6, VCCO7 | I/O Bank电压 | 1.14V | 3.465V |
| VCCX | 辅助电压 | 2.7V | 3.465V |
| GW2A-18 UG484封装电源供电要求 | | | |
| 名称 | 描述 | 最小值 | 最大值 |
| VCC | 核电压 | 0.95V | 1.05V |
| VCCPLLL0/1 | 左边锁相环0/1供电电压 | 0.95V | 1.05V |
| VCCPLLR0/1 | 右边锁相环0/1供电电压 | 0.95V | 1.05V |
| VCCO0, VCCO1, VCCO3, VCCO4, VCCO5 | I/O Bank电压 | 1.14V | 3.465V |
| VCCO6/VCCO7 | I/O Bank电压, VCCO6和VCCO7内部短接在一起 | 1.14V | 3.465V |
| VCCX/VCCO2 | 辅助电压与VCCO2内部短接在一起 | 2.7V | 3.465V |
| GW2A-18 PG256CF封装电源供电要求 | | | |
| 名称 | 描述 | 最小值 | 最大值 |
| VCC | 核电压 | 0.95V | 1.05V |
| VCCPLLL | 左边锁相环供电电压 | 0.95V | 1.05V |
| VCCPLLR | 右边锁相环供电电压 | 0.95V | 1.05V |
| VCCO0, VCCO1, VCCO2, VCCO3, VCCO4, VCCO5, VCCO6 | I/O Bank电压 | 1.14V | 3.465V |
| VCCX/VCCO7 | VCCX/VCCO7内部短接在一起 | 2.7V | 3.465V |

| 注! | | | |
|-----------------------------------------------------------|------------|-------|--------|
| [1]使用True LVDS的Bank VCCO建议设置为2.5V。 | | | |
| [2]建议把VCCX和电压最高的VCCO接在一起使用。 | | | |
| GW2A-18 PG256SF封装电源供电要求 | | | |
| 名称 | 描述 | 最小值 | 最大值 |
| VCC | 核电压 | 0.95V | 1.05V |
| VCCPLLL | 左边锁相环供电电压 | 0.95V | 1.05V |
| VCCPLLR | 右边锁相环供电电压 | 0.95V | 1.05V |
| VCCO0, VCCO1, VCCO2, VCCO3, VCCO4, VCCO5, VCCO6, VCCO7 | I/O Bank电压 | 1.14V | 3.465V |
| VCCX | 辅助电压 | 2.7V | 3.465V |