

注1

下表中不同颜色的底纹释义如下：

- 1  引脚功能不同
- 2  电源不同
- 3  主要配置功能不同
- 4  TRUE LVDS不同
- 5 没有标注颜色底纹的为两者兼容
- 6 未做BANK兼容对比
- 7 GW2A系列VCC需供1.0V, GW1N系列VCC需供1.2V
- 8 GW2A系列含有EXTR管脚, GW1N系列不含有EXTR管脚

GW2A-18 QN88

| QN88 | 管脚名               | 功能     | DQS  | BANK | 配置功能       | 差分Pair         | LVDS |
|------|-------------------|--------|------|------|------------|----------------|------|
| 1    | VCC               | Power  |      | N/A  |            |                |      |
| 2    | VSS               | Ground |      | N/A  |            |                |      |
| 3    | VCCO7             | Power  |      | N/A  |            |                |      |
| 4    | IOL7A/LPLL1_T_in  | I/O    | DQ0  | 7    | LPLL1_T_in | True_of_IOL7B  | NONE |
| 5    | IOR25B/TMS        | I/O    | DQ10 | 2    | TMS        | Comp_of_IOR25A | NONE |
| 6    | IOR26A/TCK        | I/O    | DQ10 | 2    | TCK        | True_of_IOR26B | TRUE |
| 7    | IOR26B/TDI        | I/O    | DQ10 | 2    | TDI        | Comp_of_IOR26A | TRUE |
| 8    | IOR25A/TDO        | I/O    | DQ10 | 2    | TDO        | True_of_IOR25B | NONE |
| 9    | IOR31B/RECONFIG_N | I/O    | DQ9  | 3    | RECONFIG_N | Comp_of_IOR31A | TRUE |
| 10   | IOL29A/GCLKT_6    | I/O    | DQ2  | 6    | GCLKT_6    | True_of_IOL29B | TRUE |
| 11   | IOL29B/GCLKC_6    | I/O    | DQ2  | 6    | GCLKC_6    | Comp_of_IOL29A | TRUE |
| 12   | VCCX/VCCO2/VCCO6  | Power  |      | N/A  |            |                |      |
| 13   | IOL45A/LPLL2_T_in | I/O    | DQ2  | 6    | LPLL2_T_in | True_of_IOL45B | NONE |
| 14   | VCCPLLL1          | Power  |      | N/A  |            |                |      |
| 15   | IOL47A/LPLL2_T_fb | I/O    | DQ3  | 6    | LPLL2_T_fb | True_of_IOL47B | TRUE |
| 16   | IOL47B/LPLL2_C_fb | I/O    | DQ3  | 6    | LPLL2_C_fb | Comp_of_IOL47A | TRUE |
| 17   | IOL49A            | I/O    | DQ3  | 6    |            | True_of_IOL49B | TRUE |
| 18   | IOL49B            | I/O    | DQ3  | 6    |            | Comp_of_IOL49A | TRUE |
| 19   | IOL51A            | I/O    | DQ3  | 6    |            | True_of_IOL51B | TRUE |
| 20   | IOL51B            | I/O    | DQ3  | 6    |            | Comp_of_IOL51A | TRUE |
| 21   | VSS               | Ground |      | N/A  |            |                |      |
| 22   | VCC               | Power  |      | N/A  |            |                |      |
| 23   | VCCO5             | Power  |      | N/A  |            |                |      |
| 24   | VSS               | Ground |      | N/A  |            |                |      |
| 25   | IOB6A             | I/O    | DQ4  | 5    |            | True_of_IOB6B  | TRUE |
| 26   | IOB6B             | I/O    | DQ4  | 5    |            | Comp_of_IOB6A  | TRUE |
| 27   | IOB8A             | I/O    | DQ4  | 5    |            | True_of_IOB8B  | TRUE |
| 28   | IOB8B             | I/O    | DQ4  | 5    |            | Comp_of_IOB8A  | TRUE |
| 29   | IOB14A            | I/O    | DQ5  | 5    |            | True_of_IOB14B | TRUE |
| 30   | IOB14B            | I/O    | DQ5  | 5    |            | Comp_of_IOB14A | TRUE |
| 31   | IOB18A            | I/O    | DQ5  | 5    |            | True_of_IOB18B | TRUE |
| 32   | IOB18B            | I/O    | DQ5  | 5    |            | Comp_of_IOB18A | TRUE |
| 33   | IOB24A            | I/O    | DQ5  | 5    |            | True_of_IOB24B | TRUE |
| 34   | IOB24B            | I/O    | DQ5  | 5    |            | Comp_of_IOB24A | TRUE |
| 35   | IOB30A/GCLKT_4    | I/O    | DQ6  | 4    | GCLKT_4    | True_of_IOB30B | TRUE |
| 36   | IOB30B/GCLKC_4    | I/O    | DQ6  | 4    | GCLKC_4    | Comp_of_IOB30A | TRUE |
| 37   | IOB34A            | I/O    | DQ6  | 4    |            | True_of_IOB34B | TRUE |
| 38   | IOB34B            | I/O    | DQ6  | 4    |            | Comp_of_IOB34A | TRUE |
| 39   | IOB40A            | I/O    | DQ6  | 4    |            | True_of_IOB40B | TRUE |
| 40   | IOB40B            | I/O    | DQ6  | 4    |            | Comp_of_IOB40A | TRUE |
| 41   | IOB43A            | I/O    | DQ6  | 4    |            | True_of_IOB43B | NONE |
| 42   | IOB42B            | I/O    | DQ6  | 4    |            | Comp_of_IOB42A | TRUE |
| 43   | VSS               | Ground |      | N/A  |            |                |      |
| 44   | VCCO4             | Power  |      | N/A  |            |                |      |
| 45   | VCC               | Power  |      | N/A  |            |                |      |
| 46   | VSS               | Ground |      | N/A  |            |                |      |

GW1N-9 QN88

| QN88 | 管脚名                       | 功能     | BANK | 配置功能                | 差分Pair         | LVDS | X16  |
|------|---------------------------|--------|------|---------------------|----------------|------|------|
| 1    | VCC                       | Power  | N/A  |                     |                |      |      |
| 2    | VSS                       | Ground | N/A  |                     |                |      |      |
| 3    | IOL2A                     | I/O    | 3    |                     | True_of_IOL2B  | TRUE | NONE |
| 4    | IOL5A/JTAGSEL_N/LPLL_T_in | I/O    | 3    | JTAGSEL_N/LPLL_T_in | True_of_IOL5B  | NONE | NONE |
| 5    | IOL11A/TMS                | I/O    | 3    | TMS                 | True_of_IOL11B | TRUE | NONE |
| 6    | IOL11B/TCK                | I/O    | 3    | TCK                 | Comp_of_IOL11A | TRUE | NONE |
| 7    | IOL12B/TDI                | I/O    | 3    | TDI                 | Comp_of_IOL12A | NONE | NONE |
| 8    | IOL13A/TDO                | I/O    | 3    | TDO                 | True_of_IOL13B | TRUE | NONE |
| 9    | IOL13B/RECONFIG_N         | I/O    | 3    | RECONFIG_N          | Comp_of_IOL13A | TRUE | NONE |
| 10   | IOL14A/DONE               | I/O    | 3    | DONE                | True_of_IOL14B | NONE | NONE |
| 11   | IOL15A/GCLKT_6            | I/O    | 3    | GCLKT_6             | True_of_IOL15B | TRUE | NONE |
| 12   | VCCO3                     | Power  | N/A  |                     |                |      |      |
| 13   | IOL22A                    | I/O    | 3    |                     | True_of_IOL22B | TRUE | NONE |
| 14   | IOL22B                    | I/O    | 3    |                     | Comp_of_IOL22A | TRUE | NONE |
| 15   | IOL26A                    | I/O    | 3    |                     | True_of_IOL26B | TRUE | NONE |
| 16   | IOL26B                    | I/O    | 3    |                     | Comp_of_IOL26A | TRUE | NONE |
| 17   | IOB2A                     | I/O    | 2    |                     | True_of_IOB2B  | TRUE | x16  |
| 18   | IOB2B                     | I/O    | 2    |                     | Comp_of_IOB2A  | TRUE | NONE |
| 19   | IOB4A                     | I/O    | 2    |                     | True_of_IOB4B  | TRUE | x16  |
| 20   | IOB4B                     | I/O    | 2    |                     | Comp_of_IOB4A  | TRUE | NONE |
| 21   | VSS                       | Ground | N/A  |                     |                |      |      |
| 22   | VCC                       | Power  | N/A  |                     |                |      |      |
| 23   | VCCO2                     | Power  | N/A  |                     |                |      |      |
| 24   | VSS                       | Ground | N/A  |                     |                |      |      |
| 25   | IOB8A                     | I/O    | 2    |                     | True_of_IOB8B  | TRUE | x16  |
| 26   | IOB8B                     | I/O    | 2    |                     | Comp_of_IOB8A  | TRUE | NONE |
| 27   | IOB11A                    | I/O    | 2    |                     | True_of_IOB11B | TRUE | x16  |
| 28   | IOB11B                    | I/O    | 2    |                     | Comp_of_IOB11A | TRUE | NONE |
| 29   | IOB13A                    | I/O    | 2    |                     | True_of_IOB13B | TRUE | x16  |
| 30   | IOB13B                    | I/O    | 2    |                     | Comp_of_IOB13A | TRUE | NONE |
| 31   | IOB17A                    | I/O    | 2    |                     | True_of_IOB17B | TRUE | x16  |
| 32   | IOB17B                    | I/O    | 2    |                     | Comp_of_IOB17A | TRUE | NONE |
| 33   | IOB23A                    | I/O    | 2    |                     | True_of_IOB23B | TRUE | x16  |
| 34   | IOB23B                    | I/O    | 2    |                     | Comp_of_IOB23A | TRUE | NONE |
| 35   | IOB29A/GCLKT_4            | I/O    | 2    | GCLKT_4             | True_of_IOB29B | TRUE | x16  |
| 36   | IOB29B/GCLKC_4            | I/O    | 2    | GCLKC_4             | Comp_of_IOB29A | TRUE | NONE |
| 37   | IOB31A                    | I/O    | 2    |                     | True_of_IOB31B | TRUE | x16  |
| 38   | IOB31B                    | I/O    | 2    |                     | Comp_of_IOB31A | TRUE | NONE |
| 39   | IOB33A                    | I/O    | 2    |                     | True_of_IOB33B | TRUE | x16  |
| 40   | IOB33B                    | I/O    | 2    |                     | Comp_of_IOB33A | TRUE | NONE |
| 41   | IOB41A                    | I/O    | 2    |                     | True_of_IOB41B | TRUE | x16  |
| 42   | IOB41B                    | I/O    | 2    |                     | Comp_of_IOB41A | TRUE | NONE |
| 43   | VSS                       | Ground | N/A  |                     |                |      |      |
| 44   | VCCO2                     | Power  | N/A  |                     |                |      |      |
| 45   | VCC                       | Power  | N/A  |                     |                |      |      |
| 46   | VSS                       | Ground | N/A  |                     |                |      |      |

| QN88 | 管脚名                  | 功能     | DQS  | BANK | 配置功能          | 差分Pair         | LVDS |
|------|----------------------|--------|------|------|---------------|----------------|------|
| 47   | EXTR                 | Ground |      | N/A  |               |                |      |
| 48   | IOR49B               | I/O    | DQ8  | 3    |               | Comp_of_IOR49A | TRUE |
| 49   | IOR49A               | I/O    | DQ8  | 3    |               | True_of_IOR49B | TRUE |
| 50   | VCCPLL1              | Power  |      | N/A  |               |                |      |
| 51   | IOR45A/RPLL2_T_in    | I/O    | DQ9  | 3    | RPLL2_T_in    | True_of_IOR45B | NONE |
| 52   | IOR39A/SCLK          | I/O    | DQ9  | 3    | SCLK          | True_of_IOR39B | NONE |
| 53   | IOR38B/DOUT/WE_N     | I/O    | DQ9  | 3    | DOUT/WE_N     | Comp_of_IOR38A | TRUE |
| 54   | IOR38A/DIN/CLKHOLD_N | I/O    | DQ9  | 3    | DIN/CLKHOLD_N | True_of_IOR38B | TRUE |
| 55   | IOR36B/SSPI_CS_N/D0  | I/O    | DQS9 | 3    | SSPI_CS_N/D0  | Comp_of_IOR36A | NONE |
| 56   | IOR36A/SO/D1         | I/O    | DQS9 | 3    | SO/D1         | True_of_IOR36B | NONE |
| 57   | IOR35A/FASTRD_N/D3   | I/O    | DQ9  | 3    | FASTRD_N/D3   | True_of_IOR35B | TRUE |
| 58   | VCCO3                | Power  |      | N/A  |               |                |      |
| 59   | IOR34B/MCLK/D4       | I/O    | DQ9  | 3    | MCLK/D4       | Comp_of_IOR34A | NONE |
| 60   | IOR34A/MCS_N/D5      | I/O    | DQ9  | 3    | MCS_N/D5      | True_of_IOR34B | NONE |
| 61   | IOR33B/MO/D6         | I/O    | DQ9  | 3    | MO/D6         | Comp_of_IOR33A | TRUE |
| 62   | IOR33A/MI/D7         | I/O    | DQ9  | 3    | MI/D7         | True_of_IOR33B | TRUE |
| 63   | IOR29A/GCLKT_3       | I/O    | DQ9  | 3    | GCLKT_3       | True_of_IOR29B | TRUE |
| 64   | VCCX/VCCO2/VCCO6     | Power  |      | N/A  |               |                |      |
| 65   | VSS                  | Ground |      | N/A  |               |                |      |
| 66   | VCC                  | Power  |      | N/A  |               |                |      |
| 67   | VCCO1                | Power  |      | N/A  |               |                |      |
| 68   | VSS                  | Ground |      | N/A  |               |                |      |
| 69   | IOT50A               | I/O    | DQ12 | 1    |               | True_of_IOT50B | TRUE |
| 70   | IOT44B               | I/O    | DQ13 | 1    |               | Comp_of_IOT44A | TRUE |
| 71   | IOT44A               | I/O    | DQ13 | 1    |               | True_of_IOT44B | TRUE |
| 72   | IOT40B               | I/O    | DQ13 | 1    |               | Comp_of_IOT40A | TRUE |
| 73   | IOT40A               | I/O    | DQ13 | 1    |               | True_of_IOT40B | TRUE |
| 74   | IOT34B               | I/O    | DQ13 | 1    |               | Comp_of_IOT34A | TRUE |
| 75   | IOT34A               | I/O    | DQ13 | 1    |               | True_of_IOT34B | TRUE |
| 76   | IOT30B/GCLKC_1       | I/O    | DQ13 | 1    | GCLKC_1       | Comp_of_IOT30A | TRUE |
| 77   | IOT30A/GCLKT_1       | I/O    | DQ13 | 1    | GCLKT_1       | True_of_IOT30B | TRUE |
| 78   | VCCO0                | Power  |      | N/A  |               |                |      |
| 79   | IOT27B/GCLKC_0       | I/O    | DQ14 | 0    | GCLKC_0       | Comp_of_IOT27A | NONE |
| 80   | IOT27A/GCLKT_0       | I/O    | DQ14 | 0    | GCLKT_0       | True_of_IOT27B | NONE |
| 81   | IOT17B               | I/O    | DQ14 | 0    |               | Comp_of_IOT17A | NONE |
| 82   | IOT17A               | I/O    | DQ14 | 0    |               | True_of_IOT17B | NONE |
| 83   | IOT6B                | I/O    | DQ15 | 0    |               | Comp_of_IOT6A  | TRUE |
| 84   | IOT6A                | I/O    | DQ15 | 0    |               | True_of_IOT6B  | TRUE |
| 85   | IOT4B                | I/O    | DQ15 | 0    |               | Comp_of_IOT4A  | TRUE |
| 86   | IOT4A                | I/O    | DQ15 | 0    |               | True_of_IOT4B  | TRUE |
| 87   | IOR30B/MODE1         | I/O    | DQ9  | 3    | MODE1         | Comp_of_IOR30A | NONE |
| 88   | IOR30A/MODE0         | I/O    | DQ9  | 3    | MODE0         | True_of_IOR30B | NONE |

| QN88 | 管脚名                  | 功能     | BANK | 配置功能          | 差分Pair         | LVDS | X16  |
|------|----------------------|--------|------|---------------|----------------|------|------|
| 47   | IOB43B               | I/O    | 2    |               | Comp_of_IOB43A | TRUE | NONE |
| 48   | IOR24B               | I/O    | 1    |               | Comp_of_IOR24A | TRUE | NONE |
| 49   | IOR24A               | I/O    | 1    |               | True_of_IOR24B | TRUE | NONE |
| 50   | IOR22B               | I/O    | 1    |               | Comp_of_IOR22A | TRUE | NONE |
| 51   | IOR17B/GCLKC_3       | I/O    | 1    | GCLKC_3       | Comp_of_IOR17A | TRUE | NONE |
| 52   | IOR17A/GCLKT_3       | I/O    | 1    | GCLKT_3       | True_of_IOR17B | TRUE | NONE |
| 53   | IOR15B/DOUT/WE_N     | I/O    | 1    | DOUT/WE_N     | Comp_of_IOR15A | TRUE | NONE |
| 54   | IOR15A/DIN/CLKHOLD_N | I/O    | 1    | DIN/CLKHOLD_N | True_of_IOR15B | TRUE | NONE |
| 55   | IOR14B/SSPI_CS_N/D0  | I/O    | 1    | SSPI_CS_N/D0  | Comp_of_IOR14A | NONE | NONE |
| 56   | IOR14A/SO/D1         | I/O    | 1    | SO/D1         | True_of_IOR14B | NONE | NONE |
| 57   | IOR13A/FASTRD_N/D3   | I/O    | 1    | FASTRD_N/D3   | True_of_IOR13B | TRUE | NONE |
| 58   | VCCO1                | Power  | N/A  |               |                |      |      |
| 59   | IOR12B/MCLK/D4       | I/O    | 1    | MCLK/D4       | Comp_of_IOR12A | NONE | NONE |
| 60   | IOR12A/MCS_N/D5      | I/O    | 1    | MCS_N/D5      | True_of_IOR12B | NONE | NONE |
| 61   | IOR11B/MO/D6         | I/O    | 1    | MO/D6         | Comp_of_IOR11A | TRUE | NONE |
| 62   | IOR11A/MI/D7         | I/O    | 1    | MI/D7         | True_of_IOR11B | TRUE | NONE |
| 63   | IOR5A/RPLL_T_in      | I/O    | 1    | RPLL_T_in     | True_of_IOR5B  | NONE | NONE |
| 64   | VCCX                 | Power  | N/A  |               |                |      |      |
| 65   | VSS                  | Ground | N/A  |               |                |      |      |
| 66   | VCC                  | Power  | N/A  |               |                |      |      |
| 67   | VCCO0                | Power  | N/A  |               |                |      |      |
| 68   | IOT42B               | I/O    | 1    |               | Comp_of_IOT42A | NONE | NONE |
| 69   | IOT42A               | I/O    | 1    |               | True_of_IOT42B | NONE | NONE |
| 70   | IOT41B               | I/O    | 1    |               | Comp_of_IOT41A | NONE | NONE |
| 71   | IOT41A               | I/O    | 1    |               | True_of_IOT41B | NONE | x16  |
| 72   | IOT39B               | I/O    | 1    |               | Comp_of_IOT39A | NONE | NONE |
| 73   | IOT39A               | I/O    | 1    |               | True_of_IOT39B | NONE | x16  |
| 74   | IOT38B               | I/O    | 1    |               | Comp_of_IOT38A | NONE | NONE |
| 75   | IOT38A               | I/O    | 1    |               | True_of_IOT38B | NONE | NONE |
| 76   | IOT37B               | I/O    | 1    |               | Comp_of_IOT37A | NONE | NONE |
| 77   | IOT37A               | I/O    | 1    |               | True_of_IOT37B | NONE | NONE |
| 78   | VCCX                 | Power  | N/A  |               |                |      |      |
| 79   | IOT12B               | I/O    | 3    |               | Comp_of_IOT12A | NONE | NONE |
| 80   | IOT12A               | I/O    | 3    |               | True_of_IOT12B | NONE | NONE |
| 81   | IOT11B               | I/O    | 3    |               | Comp_of_IOT11A | NONE | NONE |
| 82   | IOT11A               | I/O    | 3    |               | True_of_IOT11B | NONE | x16  |
| 83   | IOT10B               | I/O    | 3    |               | Comp_of_IOT10A | NONE | NONE |
| 84   | IOT10A               | I/O    | 3    |               | True_of_IOT10B | NONE | NONE |
| 85   | IOT8B                | I/O    | 3    |               | Comp_of_IOT8A  | NONE | NONE |
| 86   | IOT8A                | I/O    | 3    |               | True_of_IOT8B  | NONE | x16  |
| 87   | IOT6B/MODE1          | I/O    | 3    | MODE1         | Comp_of_IOT6A  | NONE | NONE |
| 88   | IOT5A/MODE0          | I/O    | 3    | MODE0         | True_of_IOT5B  | NONE | NONE |

GW2A-18 GW1N-9  
LQ144封装  
兼容性对比

注1

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- 2 电源不同
- 3 主要配置功能不同
- 4 TRUE LVDS不同
- 5 没有标注颜色底纹的为两者兼容
- 6 未做BANK兼容对比
- 7 GW2A系列VCC需供1.0V，GW1N系列VCC需供1.2V
- 8 GW2A系列含有EXTR引脚，GW1N系列不含有EXTR引脚

GW2A-18 LQ144

| LQ144 | 管脚名               | 功能     | DQS  | BANK | 配置功能       | 差分Pair         | LVDS |
|-------|-------------------|--------|------|------|------------|----------------|------|
| 1     | VCC/VCCPLL1       | Power  |      | N/A  |            |                |      |
| 2     | VSS               | Ground |      | N/A  |            |                |      |
| 3     | IOL2A             | I/O    | DQ0  | 7    |            | True_of_IOL2B  | TRUE |
| 4     | IOL2B             | I/O    | DQ0  | 7    |            | Comp_of_IOL2A  | TRUE |
| 5     | VCCO7             | Power  |      | N/A  |            |                |      |
| 6     | IOL7A/LPLL1_T_in  | I/O    | DQ0  | 7    | LPLL1_T_in | True_of_IOL7B  | NONE |
| 7     | IOL7B/LPLL1_C_in  | I/O    | DQ0  | 7    | LPLL1_C_in | Comp_of_IOL7A  | NONE |
| 8     | VCCPLL0           | Power  |      | N/A  |            |                |      |
| 9     | IOL22A            | I/O    | DQS1 | 7    |            | True_of_IOL22B | TRUE |
| 10    | IOL22B            | I/O    | DQS1 | 7    |            | Comp_of_IOL22A | TRUE |
| 11    | IOL27A/GCLKT_7    | I/O    | DQ1  | 7    | GCLKT_7    | True_of_IOL27B | NONE |
| 12    | IOL27B/GCLKC_7    | I/O    | DQ1  | 7    | GCLKC_7    | Comp_of_IOL27A | NONE |
| 13    | IOR25B/TMS        | I/O    | DQ10 | 2    | TMS        | Comp_of_IOR25A | NONE |
| 14    | IOR26A/TCK        | I/O    | DQ10 | 2    | TCK        | True_of_IOR26B | TRUE |
| 15    | IOR39A/SCLK       | I/O    | DQ9  | 3    | SCLK       | True_of_IOR39B | NONE |
| 16    | IOR26B/TDI        | I/O    | DQ10 | 2    | TDI        | Comp_of_IOR26A | TRUE |
| 17    | VSS               | Ground |      | N/A  |            |                |      |
| 18    | IOR25A/TDO        | I/O    | DQ10 | 2    | TDO        | True_of_IOR25B | NONE |
| 19    | VCCO7             | Power  |      | N/A  |            |                |      |
| 20    | IOR31B/RECONFIG_N | I/O    | DQ9  | 3    | RECONFIG_N | Comp_of_IOR31A | TRUE |
| 21    | IOR32B/DONE       | I/O    | DQ9  | 3    | DONE       | Comp_of_IOR32A | NONE |
| 22    | IOR32A/READY      | I/O    | DQ9  | 3    | READY      | True_of_IOR32B | NONE |
| 23    | IOL32A            | I/O    | DQ2  | 6    |            | True_of_IOL32B | NONE |
| 24    | IOL32B            | I/O    | DQ2  | 6    |            | Comp_of_IOL32A | NONE |
| 25    | IOL29A/GCLKT_6    | I/O    | DQ2  | 6    | GCLKT_6    | True_of_IOL29B | TRUE |
| 26    | IOL29B/GCLKC_6    | I/O    | DQ2  | 6    | GCLKC_6    | Comp_of_IOL29A | TRUE |
| 27    | IOL33A            | I/O    | DQ2  | 6    |            | True_of_IOL33B | TRUE |
| 28    | IOL33B            | I/O    | DQ2  | 6    |            | Comp_of_IOL33A | TRUE |
| 29    | IOL36A            | I/O    | DQS2 | 6    |            | True_of_IOL36B | NONE |
| 30    | IOL36B            | I/O    | DQS2 | 6    |            | Comp_of_IOL36A | NONE |
| 31    | VCCX/VCCO2/VCCO6  | Power  |      | N/A  |            |                |      |
| 32    | IOL42A            | I/O    | DQ2  | 6    |            | True_of_IOL42B | TRUE |
| 33    | IOL42B            | I/O    | DQ2  | 6    |            | Comp_of_IOL42A | TRUE |
| 34    | IOL45A/LPLL2_T_in | I/O    | DQ2  | 6    | LPLL2_T_in | True_of_IOL45B | NONE |
| 35    | VSS               | Ground |      | N/A  |            |                |      |
| 36    | VCC/VCCPLL1       | Power  |      | N/A  |            |                |      |
| 37    | VCCO5             | Power  |      | N/A  |            |                |      |
| 38    | IOB5A             | I/O    | DQ4  | 5    |            | True_of_IOB5B  | NONE |
| 39    | IOB5B             | I/O    | DQ4  | 5    |            | Comp_of_IOB5A  | NONE |
| 40    | IOB6A             | I/O    | DQ4  | 5    |            | True_of_IOB6B  | TRUE |
| 41    | IOB6B             | I/O    | DQ4  | 5    |            | Comp_of_IOB6A  | TRUE |
| 42    | IOB7A             | I/O    | DQ4  | 5    |            | True_of_IOB7B  | NONE |
| 43    | IOB7B             | I/O    | DQ4  | 5    |            | Comp_of_IOB7A  | NONE |
| 44    | IOB12A            | I/O    | DQ5  | 5    |            | True_of_IOB12B | TRUE |
| 45    | IOB12B            | I/O    | DQ5  | 5    |            | Comp_of_IOB12A | TRUE |
| 46    | IOB14A            | I/O    | DQ5  | 5    |            | True_of_IOB14B | TRUE |

GW1N-9 LQ144

| LQ144 | 管脚名                       | 功能     | BANK | 配置功能                | 差分Pair         | LVDS | X16  |
|-------|---------------------------|--------|------|---------------------|----------------|------|------|
| 1     | VCC                       | Power  | N/A  |                     |                |      |      |
| 2     | VSS                       | Ground | N/A  |                     |                |      |      |
| 3     | IOL2A                     | I/O    | 3    |                     | True_of_IOL2B  | TRUE | NONE |
| 4     | IOL5A/JTAGSEL_N/LPLL_T_in | I/O    | 3    | JTAGSEL_N/LPLL_T_in | True_of_IOL5B  | NONE | NONE |
| 5     | VCCO3                     | Power  | N/A  |                     |                |      |      |
| 6     | IOL6B/LPLL_C_fb           | I/O    | 3    | LPLL_C_fb           | Comp_of_IOL6A  | TRUE | NONE |
| 7     | IOL7A                     | I/O    | 3    |                     | True_of_IOL7B  | NONE | NONE |
| 8     | IOL7B                     | I/O    | 3    |                     | Comp_of_IOL7A  | NONE | NONE |
| 9     | IOL8A                     | I/O    | 3    |                     | True_of_IOL8B  | TRUE | NONE |
| 10    | IOL8B                     | I/O    | 3    |                     | Comp_of_IOL8A  | TRUE | NONE |
| 11    | IOL9A/GCLKT_7             | I/O    | 3    | GCLKT_7             | True_of_IOL9B  | NONE | NONE |
| 12    | IOL9B/GCLKC_7             | I/O    | 3    | GCLKC_7             | Comp_of_IOL9A  | NONE | NONE |
| 13    | IOL11A/TMS                | I/O    | 3    | TMS                 | True_of_IOL11B | TRUE | NONE |
| 14    | IOL11B/TCK                | I/O    | 3    | TCK                 | Comp_of_IOL11A | TRUE | NONE |
| 15    | IOL12A/SCLK               | I/O    | 3    | SCLK                | True_of_IOL12B | NONE | NONE |
| 16    | IOL12B/TDI                | I/O    | 3    | TDI                 | Comp_of_IOL12A | NONE | NONE |
| 17    | VSS                       | Ground | N/A  |                     |                |      |      |
| 18    | IOL13A/TDO                | I/O    | 3    | TDO                 | True_of_IOL13B | TRUE | NONE |
| 19    | VCCO3                     | Power  | N/A  |                     |                |      |      |
| 20    | IOL13B/RECONFIG_N         | I/O    | 3    | RECONFIG_N          | Comp_of_IOL13A | TRUE | NONE |
| 21    | IOL14A/DONE               | I/O    | 3    | DONE                | True_of_IOL14B | NONE | NONE |
| 22    | IOL14B/READY              | I/O    | 3    | READY               | Comp_of_IOL14A | NONE | NONE |
| 23    | IOL15A/GCLKT_6            | I/O    | 3    | GCLKT_6             | True_of_IOL15B | TRUE | NONE |
| 24    | IOL15B/GCLKC_6            | I/O    | 3    | GCLKC_6             | Comp_of_IOL15A | TRUE | NONE |
| 25    | IOL22A                    | I/O    | 3    |                     | True_of_IOL22B | TRUE | NONE |
| 26    | IOL22B                    | I/O    | 3    |                     | Comp_of_IOL22A | TRUE | NONE |
| 27    | IOL26A                    | I/O    | 3    |                     | True_of_IOL26B | TRUE | NONE |
| 28    | IOL26B                    | I/O    | 3    |                     | Comp_of_IOL26A | TRUE | NONE |
| 29    | IOB4A                     | I/O    | 2    |                     | True_of_IOB4B  | TRUE | x16  |
| 30    | IOB4B                     | I/O    | 2    |                     | Comp_of_IOB4A  | TRUE | NONE |
| 31    | VCCX                      | Power  | N/A  |                     |                |      |      |
| 32    | IOB6A                     | I/O    | 2    |                     | True_of_IOB6B  | TRUE | x16  |
| 33    | VSS                       | Ground | N/A  |                     |                |      |      |
| 34    | IOB6B                     | I/O    | 2    |                     | Comp_of_IOB6A  | TRUE | NONE |
| 35    | VSS                       | Ground | N/A  |                     |                |      |      |
| 36    | VCC                       | Power  | N/A  |                     |                |      |      |
| 37    | VCCO2                     | Power  | N/A  |                     |                |      |      |
| 38    | IOB8A                     | I/O    | 2    |                     | True_of_IOB8B  | TRUE | x16  |
| 39    | IOB8B                     | I/O    | 2    |                     | Comp_of_IOB8A  | TRUE | NONE |
| 40    | IOB9A                     | I/O    | 2    |                     | True_of_IOB9B  | NONE | NONE |
| 41    | IOB9B                     | I/O    | 2    |                     | Comp_of_IOB9A  | NONE | NONE |
| 42    | IOB11A                    | I/O    | 2    |                     | True_of_IOB11B | TRUE | x16  |
| 43    | IOB11B                    | I/O    | 2    |                     | Comp_of_IOB11A | TRUE | NONE |
| 44    | IOB12A                    | I/O    | 2    |                     | True_of_IOB12B | NONE | NONE |
| 45    | IOB12B                    | I/O    | 2    |                     | Comp_of_IOB12A | NONE | NONE |
| 46    | IOB13A                    | I/O    | 2    |                     | True_of_IOB13B | TRUE | x16  |

| LQ144 | 管脚名                  | 功能     | DQS   | BANK | 配置功能          | 差分Pair         | LVDS |
|-------|----------------------|--------|-------|------|---------------|----------------|------|
| 47    | IOB14B               | I/O    | DQ5   | 5    |               | Comp_of_IOB14A | TRUE |
| 48    | IOB17A               | I/O    | DQ5   | 5    |               | True_of_IOB17B | NONE |
| 49    | IOB17B               | I/O    | DQ5   | 5    |               | Comp_of_IOB17A | NONE |
| 50    | IOB20A               | I/O    | DQ5   | 5    |               | True_of_IOB20B | TRUE |
| 51    | IOB20B               | I/O    | DQ5   | 5    |               | Comp_of_IOB20A | TRUE |
| 52    | IOB22A               | I/O    | DQ5   | 5    |               | True_of_IOB22B | TRUE |
| 53    | VSS                  | Ground |       | N/A  |               |                |      |
| 54    | IOB22B               | I/O    | DQ5   | 5    |               | Comp_of_IOB22A | TRUE |
| 55    | VCCO4                | Power  |       | N/A  |               |                |      |
| 56    | IOB30A/GCLKT_4       | I/O    | DQ6   | 4    | GCLKT_4       | True_of_IOB30B | TRUE |
| 57    | IOB30B/GCLKC_4       | I/O    | DQ6   | 4    | GCLKC_4       | Comp_of_IOB30A | TRUE |
| 58    | IOB33A               | I/O    | DQ6   | 4    |               | True_of_IOB33B | NONE |
| 59    | IOB33B               | I/O    | DQ6   | 4    |               | Comp_of_IOB33A | NONE |
| 60    | IOB34A               | I/O    | DQ6   | 4    |               | True_of_IOB34B | TRUE |
| 61    | IOB34B               | I/O    | DQ6   | 4    |               | Comp_of_IOB34A | TRUE |
| 62    | IOB38A               | I/O    | DQ6   | 4    |               | True_of_IOB38B | TRUE |
| 63    | IOB38B               | I/O    | DQ6   | 4    |               | Comp_of_IOB38A | TRUE |
| 64    | IOB40A               | I/O    | DQ6   | 4    |               | True_of_IOB40B | TRUE |
| 65    | IOB40B               | I/O    | DQ6   | 4    |               | Comp_of_IOB40A | TRUE |
| 66    | IOB42A               | I/O    | DQ6   | 4    |               | True_of_IOB42B | TRUE |
| 67    | IOB42B               | I/O    | DQ6   | 4    |               | Comp_of_IOB42A | TRUE |
| 68    | IOB48A               | I/O    | DQS7  | 4    |               | True_of_IOB48B | TRUE |
| 69    | IOB48B               | I/O    | DQS7  | 4    |               | Comp_of_IOB48A | TRUE |
| 70    | IOB53A               | I/O    | DQ7   | 4    |               | True_of_IOB53B | NONE |
| 71    | IOB53B               | I/O    | DQ7   | 4    |               | Comp_of_IOB53A | NONE |
| 72    | IOB55B               | I/O    | DQ7   | 4    |               | Comp_of_IOB55A | NONE |
| 73    | VCC/VCCPLL1          | Power  |       | N/A  |               |                |      |
| 74    | VSS                  | Ground |       | N/A  |               |                |      |
| 75    | EXTR                 | Ground |       | N/A  |               |                |      |
| 76    | IOR50B               | I/O    | DQS8  | 3    |               | Comp_of_IOR50A | NONE |
| 77    | VCCO3                | Power  |       | N/A  |               |                |      |
| 78    | IOR50A               | I/O    | DQS8  | 3    |               | True_of_IOR50B | NONE |
| 79    | IOR49B               | I/O    | DQ8   | 3    |               | Comp_of_IOR49A | TRUE |
| 80    | IOR49A               | I/O    | DQ8   | 3    |               | True_of_IOR49B | TRUE |
| 81    | VCCPLL1              | Power  |       | N/A  |               |                |      |
| 82    | IOR45A/RPLL2_T_in    | I/O    | DQ9   | 3    | RPLL2_T_in    | True_of_IOR45B | NONE |
| 83    | IOR42B               | I/O    | DQ9   | 3    |               | Comp_of_IOR42A | TRUE |
| 84    | IOR42A               | I/O    | DQ9   | 3    |               | True_of_IOR42B | TRUE |
| 85    | IOR38B/DOUT/WE_N     | I/O    | DQ9   | 3    | DOUT/WE_N     | Comp_of_IOR38A | TRUE |
| 86    | IOR38A/DIN/CLKHOLD_N | I/O    | DQ9   | 3    | DIN/CLKHOLD_N | True_of_IOR38B | TRUE |
| 87    | IOR36B/SSPI_CS_N/D0  | I/O    | DQS9  | 3    | SSPI_CS_N/D0  | Comp_of_IOR36A | NONE |
| 88    | IOR36A/SO/D1         | I/O    | DQS9  | 3    | SO/D1         | True_of_IOR36B | NONE |
| 89    | VSS                  | Ground |       | N/A  |               |                |      |
| 90    | IOR35B/SI/D2         | I/O    | DQ9   | 3    | SI/D2         | Comp_of_IOR35A | TRUE |
| 91    | VCCO3                | Power  |       | N/A  |               |                |      |
| 92    | IOR35A/FASTRD_N/D3   | I/O    | DQ9   | 3    | FASTRD_N/D3   | True_of_IOR35B | TRUE |
| 93    | IOR34B/MCLK/D4       | I/O    | DQ9   | 3    | MCLK/D4       | Comp_of_IOR34A | NONE |
| 94    | IOR34A/MCS_N/D5      | I/O    | DQ9   | 3    | MCS_N/D5      | True_of_IOR34B | NONE |
| 95    | IOR33B/MO/D6         | I/O    | DQ9   | 3    | MO/D6         | Comp_of_IOR33A | TRUE |
| 96    | IOR33A/MI/D7         | I/O    | DQ9   | 3    | MI/D7         | True_of_IOR33B | TRUE |
| 97    | IOR27B/GCLKC_2       | I/O    | DQ10  | 2    | GCLKC_2       | Comp_of_IOR27A | NONE |
| 98    | IOR27A/GCLKT_2       | I/O    | DQ10  | 2    | GCLKT_2       | True_of_IOR27B | NONE |
| 99    | IOR22B               | I/O    | DQS10 | 2    |               | Comp_of_IOR22A | TRUE |
| 100   | IOR22A               | I/O    | DQS10 | 2    |               | True_of_IOR22B | TRUE |
| 101   | IOR20B               | I/O    | DQ10  | 2    |               | Comp_of_IOR20A | TRUE |
| 102   | IOR20A               | I/O    | DQ10  | 2    |               | True_of_IOR20B | TRUE |
| 103   | VCCX/VCCO2/VCCO6     | Power  |       | N/A  |               |                |      |
| 104   | VCCPLL0              | Power  |       | N/A  |               |                |      |





| LQ144 | 管脚名                  | 功能     | BANK | 配置功能          | 差分Pair         | LVDS | X16  |
|-------|----------------------|--------|------|---------------|----------------|------|------|
| 47    | IOB13B               | I/O    | 2    |               | Comp_of_IOB13A | TRUE | NONE |
| 48    | IOB15A               | I/O    | 2    |               | True_of_IOB15B | TRUE | x16  |
| 49    | IOB15B               | I/O    | 2    |               | Comp_of_IOB15A | TRUE | NONE |
| 50    | IOB17A               | I/O    | 2    |               | True_of_IOB17B | TRUE | x16  |
| 51    | IOB17B               | I/O    | 2    |               | Comp_of_IOB17A | TRUE | NONE |
| 52    | IOB23A               | I/O    | 2    |               | True_of_IOB23B | TRUE | x16  |
| 53    | VSS                  | Ground | N/A  |               |                |      |      |
| 54    | IOB23B               | I/O    | 2    |               | Comp_of_IOB23A | TRUE | NONE |
| 55    | VCCO2                | Power  | N/A  |               |                |      |      |
| 56    | IOB28A/GCLKT_5       | I/O    | 2    | GCLKT_5       | True_of_IOB28B | NONE | NONE |
| 57    | IOB28B/GCLKC_5       | I/O    | 2    | GCLKC_5       | Comp_of_IOB28A | NONE | NONE |
| 58    | IOB29A/GCLKT_4       | I/O    | 2    | GCLKT_4       | True_of_IOB29B | TRUE | x16  |
| 59    | IOB29B/GCLKC_4       | I/O    | 2    | GCLKC_4       | Comp_of_IOB29A | TRUE | NONE |
| 60    | IOB30A               | I/O    | 2    |               | True_of_IOB30B | NONE | NONE |
| 61    | IOB30B               | I/O    | 2    |               | Comp_of_IOB30A | NONE | NONE |
| 62    | IOB31A               | I/O    | 2    |               | True_of_IOB31B | TRUE | x16  |
| 63    | IOB31B               | I/O    | 2    |               | Comp_of_IOB31A | TRUE | NONE |
| 64    | IOB33A               | I/O    | 2    |               | True_of_IOB33B | TRUE | x16  |
| 65    | IOB33B               | I/O    | 2    |               | Comp_of_IOB33A | TRUE | NONE |
| 66    | IOB35A               | I/O    | 2    |               | True_of_IOB35B | TRUE | x16  |
| 67    | IOB35B               | I/O    | 2    |               | Comp_of_IOB35A | TRUE | NONE |
| 68    | IOB37A               | I/O    | 2    |               | True_of_IOB37B | NONE | NONE |
| 69    | IOB37B               | I/O    | 2    |               | Comp_of_IOB37A | NONE | NONE |
| 70    | IOB39A               | I/O    | 2    |               | True_of_IOB39B | TRUE | x16  |
| 71    | IOB39B               | I/O    | 2    |               | Comp_of_IOB39A | TRUE | NONE |
| 72    | IOB41A               | I/O    | 2    |               | True_of_IOB41B | TRUE | x16  |
| 73    | VCC                  | Power  | N/A  |               |                |      |      |
| 74    | VSS                  | Ground | N/A  |               |                |      |      |
| 75    | IOB42B               | I/O    | 2    |               | Comp_of_IOB42A | NONE | NONE |
| 76    | IOB43B               | I/O    | 2    |               | Comp_of_IOB43A | TRUE | NONE |
| 77    | VCCX                 | Power  | N/A  |               |                |      |      |
| 78    | IOB43A               | I/O    | 2    |               | True_of_IOB43B | TRUE | x16  |
| 79    | IOR24B               | I/O    | 1    |               | Comp_of_IOR24A | TRUE | NONE |
| 80    | IOR24A               | I/O    | 1    |               | True_of_IOR24B | TRUE | NONE |
| 81    | IOR22B               | I/O    | 1    |               | Comp_of_IOR22A | TRUE | NONE |
| 82    | IOR22A               | I/O    | 1    |               | True_of_IOR22B | TRUE | NONE |
| 83    | IOR17B/GCLKC_3       | I/O    | 1    | GCLKC_3       | Comp_of_IOR17A | TRUE | NONE |
| 84    | IOR17A/GCLKT_3       | I/O    | 1    | GCLKT_3       | True_of_IOR17B | TRUE | NONE |
| 85    | IOR15B/DOUT/WE_N     | I/O    | 1    | DOUT/WE_N     | Comp_of_IOR15A | TRUE | NONE |
| 86    | IOR15A/DIN/CLKHOLD_N | I/O    | 1    | DIN/CLKHOLD_N | True_of_IOR15B | TRUE | NONE |
| 87    | IOR14B/SSPI_CS_N/D0  | I/O    | 1    | SSPI_CS_N/D0  | Comp_of_IOR14A | NONE | NONE |
| 88    | IOR14A/SO/D1         | I/O    | 1    | SO/D1         | True_of_IOR14B | NONE | NONE |
| 89    | VSS                  | Ground | N/A  |               |                |      |      |
| 90    | IOR13B/SI/D2         | I/O    | 1    | SI/D2         | Comp_of_IOR13A | TRUE | NONE |
| 91    | VCCO1                | Power  | N/A  |               |                |      |      |
| 92    | IOR13A/FASTRD_N/D3   | I/O    | 1    | FASTRD_N/D3   | True_of_IOR13B | TRUE | NONE |
| 93    | IOR12B/MCLK/D4       | I/O    | 1    | MCLK/D4       | Comp_of_IOR12A | NONE | NONE |
| 94    | IOR12A/MCS_N/D5      | I/O    | 1    | MCS_N/D5      | True_of_IOR12B | NONE | NONE |
| 95    | IOR11B/MO/D6         | I/O    | 1    | MO/D6         | Comp_of_IOR11A | TRUE | NONE |
| 96    | IOR11A/MI/D7         | I/O    | 1    | MI/D7         | True_of_IOR11B | TRUE | NONE |
| 97    | IOR9B/GCLKC_2        | I/O    | 1    | GCLKC_2       | Comp_of_IOR9A  | NONE | NONE |
| 98    | IOR9A/GCLKT_2        | I/O    | 1    | GCLKT_2       | True_of_IOR9B  | NONE | NONE |
| 99    | IOR8B                | I/O    | 1    |               | Comp_of_IOR8A  | TRUE | NONE |
| 100   | IOR8A                | I/O    | 1    |               | True_of_IOR8B  | TRUE | NONE |
| 101   | IOR6B/RPLL_C_fb      | I/O    | 1    | RPLL_C_fb     | Comp_of_IOR6A  | TRUE | NONE |
| 102   | IOR6A/RPLL_T_fb      | I/O    | 1    | RPLL_T_fb     | True_of_IOR6B  | TRUE | NONE |
| 103   | VCCO1                | Power  | N/A  |               |                |      |      |
| 104   | IOR5B/RPLL_C_in      | I/O    | 1    | RPLL_C_in     | Comp_of_IOR5A  | NONE | NONE |

| LQ144 | 管脚名              | 功能     | DQS   | BANK | 配置功能       | 差分Pair         | LVDS |
|-------|------------------|--------|-------|------|------------|----------------|------|
| 105   | IOR7B/RPLL1_C_in | I/O    | DQ11  | 2    | RPLL1_C_in | Comp_of_IOR7A  | NONE |
| 106   | IOR7A/RPLL1_T_in | I/O    | DQ11  | 2    | RPLL1_T_in | True_of_IOR7B  | NONE |
| 107   | VSS              | Ground |       | N/A  |            |                |      |
| 108   | VCC/VCCPLL1      | Power  |       | N/A  |            |                |      |
| 109   | VCCO1            | Power  |       | N/A  |            |                |      |
| 110   | IOT50B           | I/O    | DQ12  | 1    |            | Comp_of_IOT50A | TRUE |
| 111   | IOT50A           | I/O    | DQ12  | 1    |            | True_of_IOT50B | TRUE |
| 112   | IOT48B           | I/O    | DQS12 | 1    |            | Comp_of_IOT48A | TRUE |
| 113   | IOT48A           | I/O    | DQS12 | 1    |            | True_of_IOT48B | TRUE |
| 114   | IOT42B           | I/O    | DQ13  | 1    |            | Comp_of_IOT42A | TRUE |
| 115   | IOT42A           | I/O    | DQ13  | 1    |            | True_of_IOT42B | TRUE |
| 116   | IOT40B           | I/O    | DQ13  | 1    |            | Comp_of_IOT40A | TRUE |
| 117   | IOT40A           | I/O    | DQ13  | 1    |            | True_of_IOT40B | TRUE |
| 118   | IOT38B           | I/O    | DQ13  | 1    |            | Comp_of_IOT38A | TRUE |
| 119   | IOT38A           | I/O    | DQ13  | 1    |            | True_of_IOT38B | TRUE |
| 120   | IOT30B/GCLKC_1   | I/O    | DQ13  | 1    | GCLKC_1    | Comp_of_IOT30A | TRUE |
| 121   | IOT30A/GCLKT_1   | I/O    | DQ13  | 1    | GCLKT_1    | True_of_IOT30B | TRUE |
| 122   | IOT27B/GCLKC_0   | I/O    | DQ14  | 0    | GCLKC_0    | Comp_of_IOT27A | NONE |
| 123   | IOT27A/GCLKT_0   | I/O    | DQ14  | 0    | GCLKT_0    | True_of_IOT27B | NONE |
| 124   | IOT23B           | I/O    | DQ14  | 0    |            | Comp_of_IOT23A | NONE |
| 125   | IOT22A           | I/O    | DQ14  | 0    |            | True_of_IOT22B | TRUE |
| 126   | IOT23A           | I/O    | DQ14  | 0    |            | True_of_IOT23B | NONE |
| 127   | VCCO0            | Power  |       | N/A  |            |                |      |
| 128   | IOT19A           | I/O    | DQ14  | 0    |            | True_of_IOT19B | NONE |
| 129   | IOT17B           | I/O    | DQ14  | 0    |            | Comp_of_IOT17A | NONE |
| 130   | IOT17A           | I/O    | DQ14  | 0    |            | True_of_IOT17B | NONE |
| 131   | IOT14B           | I/O    | DQ14  | 0    |            | Comp_of_IOT14A | TRUE |
| 132   | IOT14A           | I/O    | DQ14  | 0    |            | True_of_IOT14B | TRUE |
| 133   | IOT12B           | I/O    | DQ14  | 0    |            | Comp_of_IOT12A | TRUE |
| 134   | IOT12A           | I/O    | DQ14  | 0    |            | True_of_IOT12B | TRUE |
| 135   | IOT7B            | I/O    | DQ15  | 0    |            | Comp_of_IOT7A  | NONE |
| 136   | IOT7A            | I/O    | DQ15  | 0    |            | True_of_IOT7B  | NONE |
| 137   | IOT6B            | I/O    | DQ15  | 0    |            | Comp_of_IOT6A  | TRUE |
| 138   | IOT6A            | I/O    | DQ15  | 0    |            | True_of_IOT6B  | TRUE |
| 139   | IOT4B            | I/O    | DQ15  | 0    |            | Comp_of_IOT4A  | TRUE |
| 140   | IOT4A            | I/O    | DQ15  | 0    |            | True_of_IOT4B  | TRUE |
| 141   | IOT2B            | I/O    | DQ15  | 0    |            | Comp_of_IOT2A  | TRUE |
| 142   | IOR30B/MODE1     | I/O    | DQ9   | 3    | MODE1      | Comp_of_IOR30A | NONE |
| 143   | IOR31A/MODE2     | I/O    | DQ9   | 3    | MODE2      | True_of_IOR31B | TRUE |
| 144   | IOR30A/MODE0     | I/O    | DQ9   | 3    | MODE0      | True_of_IOR30B | NONE |

| LQ144 | 管脚名             | 功能     | BANK | 配置功能      | 差分Pair         | LVDS | X16  |
|-------|-----------------|--------|------|-----------|----------------|------|------|
| 105   | VSS             | Ground | N/A  |           |                |      |      |
| 106   | IOR5A/RPLL_T_in | I/O    | 1    | RPLL_T_in | True_of_IOR5B  | NONE | NONE |
| 107   | VSS             | Ground | N/A  |           |                |      |      |
| 108   | VCC             | Power  | N/A  |           |                |      |      |
| 109   | VCCO0           | Power  | N/A  |           |                |      |      |
| 110   | IOT42B          | I/O    | 1    |           | Comp_of_IOT42A | NONE | NONE |
| 111   | IOT42A          | I/O    | 1    |           | True_of_IOT42B | NONE | NONE |
| 112   | IOT41B          | I/O    | 1    |           | Comp_of_IOT41A | NONE | NONE |
| 113   | IOT41A          | I/O    | 1    |           | True_of_IOT41B | NONE | x16  |
| 114   | IOT39B          | I/O    | 1    |           | Comp_of_IOT39A | NONE | NONE |
| 115   | IOT39A          | I/O    | 1    |           | True_of_IOT39B | NONE | x16  |
| 116   | IOT37B          | I/O    | 1    |           | Comp_of_IOT37A | NONE | NONE |
| 117   | IOT37A          | I/O    | 1    |           | True_of_IOT37B | NONE | NONE |
| 118   | IOT34B          | I/O    | 0    |           | Comp_of_IOT34A | NONE | NONE |
| 119   | IOT34A          | I/O    | 0    |           | True_of_IOT34B | NONE | NONE |
| 120   | IOT32B          | I/O    | 0    |           | Comp_of_IOT32A | NONE | NONE |
| 121   | IOT32A          | I/O    | 0    |           | True_of_IOT32B | NONE | NONE |
| 122   | IOT29B/GCLKC_1  | I/O    | 0    | GCLKC_1   | Comp_of_IOT29A | NONE | NONE |
| 123   | IOT29A/GCLKT_1  | I/O    | 0    | GCLKT_1   | True_of_IOT29B | NONE | x16  |
| 124   | IOT27B          | I/O    | 0    |           | Comp_of_IOT27A | NONE | NONE |
| 125   | IOT27A          | I/O    | 0    |           | True_of_IOT27B | NONE | x16  |
| 126   | IOT24B          | I/O    | 0    |           | Comp_of_IOT24A | NONE | NONE |
| 127   | VCCO0           | Power  | N/A  |           |                |      |      |
| 128   | IOT24A          | I/O    | 0    |           | True_of_IOT24B | NONE | NONE |
| 129   | IOT22B          | I/O    | 0    |           | Comp_of_IOT22A | NONE | NONE |
| 130   | IOT22A          | I/O    | 0    |           | True_of_IOT22B | NONE | NONE |
| 131   | IOT20B          | I/O    | 0    |           | Comp_of_IOT20A | NONE | NONE |
| 132   | IOT20A          | I/O    | 0    |           | True_of_IOT20B | NONE | NONE |
| 133   | IOT17B          | I/O    | 0    |           | Comp_of_IOT17A | NONE | NONE |
| 134   | IOT17A          | I/O    | 0    |           | True_of_IOT17B | NONE | x16  |
| 135   | IOT15B          | I/O    | 0    |           | Comp_of_IOT15A | NONE | NONE |
| 136   | IOT15A          | I/O    | 0    |           | True_of_IOT15B | NONE | x16  |
| 137   | IOT12B          | I/O    | 3    |           | Comp_of_IOT12A | NONE | NONE |
| 138   | IOT12A          | I/O    | 3    |           | True_of_IOT12B | NONE | NONE |
| 139   | IOT10B          | I/O    | 3    |           | Comp_of_IOT10A | NONE | NONE |
| 140   | IOT10A          | I/O    | 3    |           | True_of_IOT10B | NONE | NONE |
| 141   | IOT8B           | I/O    | 3    |           | Comp_of_IOT8A  | NONE | NONE |
| 142   | IOT8A           | I/O    | 3    |           | True_of_IOT8B  | NONE | x16  |
| 143   | IOT6B/MODE1     | I/O    | 3    | MODE1     | Comp_of_IOT6A  | NONE | NONE |
| 144   | IOT5A/MODE0     | I/O    | 3    | MODE0     | True_of_IOT5B  | NONE | NONE |

注1

下表不同颜色的底纹释义如下：

- 1  引脚功能不同
- 2  电源不同
- 3  主要配置功能不同
- 4  TRUE LVDS不同
- 5 没有标注颜色底纹的为两者兼容
- 6 未做BANK兼容对比
- 7 GW2A系列VCC需供1.0V，GW1N系列VCC需供1.2V
- 8 GW2A系列含有EXTR管脚，GW1N系列不含有EXTR管脚

GW2A-18 PG256

| PG256 | 管脚名               | 功能     | DQS  | BANK | 配置功能       | 差分Pair         | LVDS |
|-------|-------------------|--------|------|------|------------|----------------|------|
| A1    | VCC               | Power  |      | N/A  |            |                |      |
| A10   | IOL33B            | I/O    | DQ2  | 6    |            | Comp_of_IOL33A | TRUE |
| A11   | IOL15A            | I/O    | DQ1  | 7    |            | True_of_IOL15B | TRUE |
| A12   | IOL13B            | I/O    | DQ1  | 7    |            | Comp_of_IOL13A | TRUE |
| A13   | IOR32A/READY      | I/O    | DQ9  | 3    | READY      | True_of_IOR32B | NONE |
| A14   | IOL8B/LPLL1_C_fb  | I/O    | DQ0  | 7    | LPLL1_C_fb | Comp_of_IOL8A  | TRUE |
| A15   | IOL2B             | I/O    | DQ0  | 7    |            | Comp_of_IOL2A  | TRUE |
| A16   | VCC               | Power  |      | N/A  |            |                |      |
| A2    | IOB13B            | I/O    | DQ5  | 5    |            | Comp_of_IOB13A | NONE |
| A3    | IOB4A             | I/O    | DQ4  | 5    |            | True_of_IOB4B  | TRUE |
| A4    | IOB2A             | I/O    | DQ4  | 5    |            | True_of_IOB2B  | TRUE |
| A5    | IOB7A             | I/O    | DQ4  | 5    |            | True_of_IOB7B  | NONE |
| A6    | IOR26B/TDI        | I/O    | DQ10 | 2    | TDI        | Comp_of_IOR26A | TRUE |
| A7    | IOR26A/TCK        | I/O    | DQ10 | 2    | TCK        | True_of_IOR26B | TRUE |
| A8    | IOL29B/GCLKC_6    | I/O    | DQ2  | 6    | GCLKC_6    | Comp_of_IOL29A | TRUE |
| A9    | IOL27A/GCLKT_7    | I/O    | DQ1  | 7    | GCLKT_7    | True_of_IOL27B | NONE |
| B1    | IOB8A             | I/O    | DQ4  | 5    |            | True_of_IOB8B  | TRUE |
| B10   | IOR31B/RECONFIG_N | I/O    | DQ9  | 3    | RECONFIG_N | Comp_of_IOR31A | TRUE |
| B11   | IOL13A            | I/O    | DQ1  | 7    |            | True_of_IOL13B | TRUE |
| B12   | IOL7B/LPLL1_C_in  | I/O    | DQ0  | 7    | LPLL1_C_in | Comp_of_IOL7A  | NONE |
| B13   | IOL8A/LPLL1_T_fb  | I/O    | DQ0  | 7    | LPLL1_T_fb | True_of_IOL8B  | TRUE |
| B14   | IOL2A             | I/O    | DQ0  | 7    |            | True_of_IOL2B  | TRUE |
| B15   | VSS               | Ground |      | N/A  |            |                |      |
| B16   | IOR30B/MODE1      | I/O    | DQ9  | 3    | MODE1      | Comp_of_IOR30A | NONE |
| B2    | VSS               | Ground |      | N/A  |            |                |      |
| B3    | IOB13A            | I/O    | DQ5  | 5    |            | True_of_IOB13B | NONE |
| B4    | IOB4B             | I/O    | DQ4  | 5    |            | Comp_of_IOB4A  | TRUE |
| B5    | IOL47B/LPLL2_C_fb | I/O    | DQ3  | 6    | LPLL2_C_fb | Comp_of_IOL47A | TRUE |
| B6    | IOB7B             | I/O    | DQ4  | 5    |            | Comp_of_IOB7A  | NONE |
| B7    | IOL40A            | I/O    | DQ2  | 6    |            | True_of_IOL40B | TRUE |
| B8    | IOR25B/TMS        | I/O    | DQ10 | 2    | TMS        | Comp_of_IOR25A | NONE |
| B9    | IOL33A            | I/O    | DQ2  | 6    |            | True_of_IOL33B | TRUE |
| C1    | IOB14A            | I/O    | DQ5  | 5    |            | True_of_IOB14B | TRUE |
| C10   | IOR39A/SCLK       | I/O    | DQ9  | 3    | SCLK       | True_of_IOR39B | NONE |
| C11   | IOL15B            | I/O    | DQ1  | 7    |            | Comp_of_IOL15A | TRUE |
| C12   | IOL7A/LPLL1_T_in  | I/O    | DQ0  | 7    | LPLL1_T_in | True_of_IOL7B  | NONE |
| C13   | IOR32B/DONE       | I/O    | DQ9  | 3    | DONE       | Comp_of_IOR32A | NONE |
| C14   | VSS               | Ground |      | N/A  |            |                |      |
| C15   | IOR31A/MODE2      | I/O    | DQ9  | 3    | MODE2      | True_of_IOR31B | TRUE |
| C16   | IOT5A             | I/O    | DQ15 | 0    |            | True_of_IOT5B  | NONE |

GW1N-9 PG256

| PG256 | 管脚名                       | 功能     | BANK | 配置功能                | 差分Pair         | LVDS | X16  |
|-------|---------------------------|--------|------|---------------------|----------------|------|------|
| A1    | VCC                       | Power  | N/A  |                     |                |      |      |
| A10   | IOL18B                    | I/O    | 3    |                     | Comp_of_IOL18A | NONE | NONE |
| A11   | IOL7A                     | I/O    | 3    |                     | True_of_IOL7B  | NONE | NONE |
| A12   | IOL4B                     | I/O    | 3    |                     | Comp_of_IOL4A  | TRUE | NONE |
| A13   | IOL14B/READY              | I/O    | 3    | READY               | Comp_of_IOL14A | NONE | NONE |
| A14   | IOL6B/LPLL_C_fb           | I/O    | 3    | LPLL_C_fb           | Comp_of_IOL6A  | TRUE | NONE |
| A15   | IOL2B                     | I/O    | 3    |                     | Comp_of_IOL2A  | TRUE | NONE |
| A16   | VCC                       | Power  | N/A  |                     |                |      |      |
| A2    | IOB12B                    | I/O    | 2    |                     | Comp_of_IOB12A | NONE | NONE |
| A3    | IOB8A                     | I/O    | 2    |                     | True_of_IOB8B  | TRUE | x16  |
| A4    | IOB6A                     | I/O    | 2    |                     | True_of_IOB6B  | TRUE | x16  |
| A5    | IOB7A                     | I/O    | 2    |                     | True_of_IOB7B  | NONE | NONE |
| A6    | IOL12B/TDI                | I/O    | 3    | TDI                 | Comp_of_IOL12A | NONE | NONE |
| A7    | IOL11B/TCK                | I/O    | 3    | TCK                 | Comp_of_IOL11A | TRUE | NONE |
| A8    | IOL15B/GCLKC_6            | I/O    | 3    | GCLKC_6             | Comp_of_IOL15A | TRUE | NONE |
| A9    | IOL9A/GCLKT_7             | I/O    | 3    | GCLKT_7             | True_of_IOL9B  | NONE | NONE |
| B1    | IOB11A                    | I/O    | 2    |                     | True_of_IOB11B | TRUE | x16  |
| B10   | IOL13B/RECONFIG_N         | I/O    | 3    | RECONFIG_N          | Comp_of_IOL13A | TRUE | NONE |
| B11   | IOL4A                     | I/O    | 3    |                     | True_of_IOL4B  | TRUE | NONE |
| B12   | IOL5B/LPLL_C_in           | I/O    | 3    | LPLL_C_in           | Comp_of_IOL5A  | NONE | NONE |
| B13   | IOL6A/LPLL_T_fb           | I/O    | 3    | LPLL_T_fb           | True_of_IOL6B  | TRUE | NONE |
| B14   | IOL2A                     | I/O    | 3    |                     | True_of_IOL2B  | TRUE | NONE |
| B15   | VSS                       | Ground | N/A  |                     |                |      |      |
| B16   | IOT6B/MODE1               | I/O    | 3    | MODE1               | Comp_of_IOT6A  | NONE | NONE |
| B2    | VSS                       | Ground | N/A  |                     |                |      |      |
| B3    | IOB12A                    | I/O    | 2    |                     | True_of_IOB12B | NONE | NONE |
| B4    | IOB8B                     | I/O    | 2    |                     | Comp_of_IOB8A  | TRUE | NONE |
| B5    | IOL24B                    | I/O    | 3    |                     | Comp_of_IOL24A | TRUE | NONE |
| B6    | IOB7B                     | I/O    | 2    |                     | Comp_of_IOB7A  | NONE | NONE |
| B7    | IOL22A                    | I/O    | 3    |                     | True_of_IOL22B | TRUE | NONE |
| B8    | IOL11A/TMS                | I/O    | 3    | TMS                 | True_of_IOL11B | TRUE | NONE |
| B9    | IOL18A                    | I/O    | 3    |                     | True_of_IOL18B | NONE | NONE |
| C1    | IOB10A                    | I/O    | 2    |                     | True_of_IOB10B | NONE | NONE |
| C10   | IOL12A/SCLK               | I/O    | 3    | SCLK                | True_of_IOL12B | NONE | NONE |
| C11   | IOL7B                     | I/O    | 3    |                     | Comp_of_IOL7A  | NONE | NONE |
| C12   | IOL5A/JTAGSEL_N/LPLL_T_in | I/O    | 3    | JTAGSEL_N/LPLL_T_in | True_of_IOL5B  | NONE | NONE |
| C13   | IOL14A/DONE               | I/O    | 3    | DONE                | True_of_IOL14B | NONE | NONE |
| C14   | VSS                       | Ground | N/A  |                     |                |      |      |
| C15   | IOT5B/MODE2               | I/O    | 3    | MODE2               | Comp_of_IOT5A  | NONE | NONE |
| C16   | IOT10A                    | I/O    | 3    |                     | True_of_IOT10B | NONE | NONE |

| PG256 | 管脚名               | 功能     | DQS   | BANK | 配置功能       | 差分Pair         | LVDS |
|-------|-------------------|--------|-------|------|------------|----------------|------|
| C2    | I0B8B             | I/O    | DQ4   | 5    |            | Comp_of_I0B8A  | TRUE |
| C3    | VSS               | Ground |       | N/A  |            |                |      |
| C4    | I0L47A/LPLL2_T_fb | I/O    | DQ3   | 6    | LPLL2_T_fb | True_of_I0L47B | TRUE |
| C5    | I0B2B             | I/O    | DQ4   | 5    |            | Comp_of_I0B2A  | TRUE |
| C6    | I0R25A/TDO        | I/O    | DQ10  | 2    | TDO        | True_of_I0R25B | NONE |
| C7    | I0L40B            | I/O    | DQ2   | 6    |            | Comp_of_I0L40A | TRUE |
| C8    | I0L29A/GCLKT_6    | I/O    | DQ2   | 6    | GCLKT_6    | True_of_I0L29B | TRUE |
| C9    | I0L27B/GCLKC_7    | I/O    | DQ1   | 7    | GCLKC_7    | Comp_of_I0L27A | NONE |
| D1    | I0B9B             | I/O    | DQS4  | 5    |            | Comp_of_I0B9A  | NONE |
| D10   | I0L17A            | I/O    | DQ1   | 7    |            | True_of_I0L17B | TRUE |
| D11   | I0L22A            | I/O    | DQS1  | 7    |            | True_of_I0L22B | TRUE |
| D12   | VCCO7             | Power  |       | N/A  |            |                |      |
| D13   | VSS               | Ground |       | N/A  |            |                |      |
| D14   | I0T44A            | I/O    | DQ13  | 1    |            | True_of_I0T44B | TRUE |
| D15   | I0T5B             | I/O    | DQ15  | 0    |            | Comp_of_I0T5A  | NONE |
| D16   | I0T4A             | I/O    | DQ15  | 0    |            | True_of_I0T4B  | TRUE |
| D2    | I0B14B            | I/O    | DQ5   | 5    |            | Comp_of_I0B14A | TRUE |
| D3    | I0B9A             | I/O    | DQS4  | 5    |            | True_of_I0B9B  | NONE |
| D4    | VSS               | Ground |       | N/A  |            |                |      |
| D5    | VCCO6             | Power  |       | N/A  |            |                |      |
| D6    | I0B3A             | I/O    | DQ4   | 5    |            | True_of_I0B3B  | NONE |
| D7    | I0L53B            | I/O    | DQ3   | 6    |            | Comp_of_I0L53A | TRUE |
| D8    | I0L38A            | I/O    | DQ2   | 6    |            | True_of_I0L38B | TRUE |
| D9    | I0L35B            | I/O    | DQ2   | 6    |            | Comp_of_I0L35A | TRUE |
| E1    | I0B16A            | I/O    | DQ5   | 5    |            | True_of_I0B16B | TRUE |
| E10   | I0L17B            | I/O    | DQ1   | 7    |            | Comp_of_I0L17A | TRUE |
| E11   | I0L31B            | I/O    | DQ2   | 6    |            | Comp_of_I0L31A | TRUE |
| E12   | VSS               | Ground |       | N/A  |            |                |      |
| E13   | VCCO0             | Power  |       | N/A  |            |                |      |
| E14   | I0T4B             | I/O    | DQ15  | 0    |            | Comp_of_I0T4A  | TRUE |
| E15   | I0T44B            | I/O    | DQ13  | 1    |            | Comp_of_I0T44A | TRUE |
| E16   | I0T6A             | I/O    | DQ15  | 0    |            | True_of_I0T6B  | TRUE |
| E2    | I0B12A            | I/O    | DQ5   | 5    |            | True_of_I0B12B | TRUE |
| E3    | I0B12B            | I/O    | DQ5   | 5    |            | Comp_of_I0B12A | TRUE |
| E4    | VCCO5             | Power  |       | N/A  |            |                |      |
| E5    | VSS               | Ground |       | N/A  |            |                |      |
| E6    | I0L53A            | I/O    | DQ3   | 6    |            | True_of_I0L53B | TRUE |
| E7    | I0B3B             | I/O    | DQ4   | 5    |            | Comp_of_I0B3A  | NONE |
| E8    | I0L45B/LPLL2_C_in | I/O    | DQ2   | 6    | LPLL2_C_in | Comp_of_I0L45A | NONE |
| E9    | I0L38B            | I/O    | DQ2   | 6    |            | Comp_of_I0L38A | TRUE |
| F1    | I0B19B            | I/O    | DQ5   | 5    |            | Comp_of_I0B19A | NONE |
| F10   | I0L11A            | I/O    | DQ1   | 7    |            | True_of_I0L11B | TRUE |
| F11   | VSS               | Ground |       | N/A  |            |                |      |
| F12   | I0T12A            | I/O    | DQ14  | 0    |            | True_of_I0T12B | TRUE |
| F13   | I0T8A             | I/O    | DQ15  | 0    |            | True_of_I0T8B  | TRUE |
| F14   | I0T9A             | I/O    | DQS15 | 0    |            | True_of_I0T9B  | NONE |
| F15   | I0T6B             | I/O    | DQ15  | 0    |            | Comp_of_I0T6A  | TRUE |
| F16   | I0T9B             | I/O    | DQS15 | 0    |            | Comp_of_I0T9A  | NONE |
| F2    | I0B16B            | I/O    | DQ5   | 5    |            | Comp_of_I0B16A | TRUE |
| F3    | I0B19A            | I/O    | DQ5   | 5    |            | True_of_I0B19B | NONE |
| F4    | I0B18A            | I/O    | DQ5   | 5    |            | True_of_I0B18B | TRUE |
| F5    | I0B22A            | I/O    | DQ5   | 5    |            | True_of_I0B22B | TRUE |
| F6    | VSS               | Ground |       | N/A  |            |                |      |

| PG256 | 管脚名            | 功能     | BANK | 配置功能    | 差分Pair         | LVDS | X16  |
|-------|----------------|--------|------|---------|----------------|------|------|
| C2    | I0B11B         | I/O    | 2    |         | Comp_of_I0B11A | TRUE | NONE |
| C3    | VSS            | Ground | N/A  |         |                |      |      |
| C4    | I0L24A         | I/O    | 3    |         | True_of_I0L24B | TRUE | NONE |
| C5    | I0B6B          | I/O    | 2    |         | Comp_of_I0B6A  | TRUE | NONE |
| C6    | I0L13A/TDO     | I/O    | 3    | TDO     | True_of_I0L13B | TRUE | NONE |
| C7    | I0L22B         | I/O    | 3    |         | Comp_of_I0L22A | TRUE | NONE |
| C8    | I0L15A/GCLKT_6 | I/O    | 3    | GCLKT_6 | True_of_I0L15B | TRUE | NONE |
| C9    | I0L9B/GCLKC_7  | I/O    | 3    | GCLKC_7 | Comp_of_I0L9A  | NONE | NONE |
| D1    | I0B9B          | I/O    | 2    |         | Comp_of_I0B9A  | NONE | NONE |
| D10   | I0L8A          | I/O    | 3    |         | True_of_I0L8B  | TRUE | NONE |
| D11   | I0L3B          | I/O    | 3    |         | Comp_of_I0L3A  | NONE | NONE |
| D12   | VCCO3          | Power  | N/A  |         |                |      |      |
| D13   | VSS            | Ground | N/A  |         |                |      |      |
| D14   | I0T38A         | I/O    | 1    |         | True_of_I0T38B | NONE | NONE |
| D15   | I0T10B         | I/O    | 3    |         | Comp_of_I0T10A | NONE | NONE |
| D16   | I0T9A          | I/O    | 3    |         | True_of_I0T9B  | NONE | NONE |
| D2    | I0B10B         | I/O    | 2    |         | Comp_of_I0B10A | NONE | NONE |
| D3    | I0B9A          | I/O    | 2    |         | True_of_I0B9B  | NONE | NONE |
| D4    | VSS            | Ground | N/A  |         |                |      |      |
| D5    | VCCO3          | Power  | N/A  |         |                |      |      |
| D6    | I0B5A          | I/O    | 2    |         | True_of_I0B5B  | NONE | NONE |
| D7    | I0L25B         | I/O    | 3    |         | Comp_of_I0L25A | NONE | NONE |
| D8    | I0L21A         | I/O    | 3    |         | True_of_I0L21B | NONE | NONE |
| D9    | I0L20B         | I/O    | 3    |         | Comp_of_I0L20A | TRUE | NONE |
| E1    | I0B14A         | I/O    | 2    |         | True_of_I0B14B | NONE | NONE |
| E10   | I0L8B          | I/O    | 3    |         | Comp_of_I0L8A  | TRUE | NONE |
| E11   | I0L16B         | I/O    | 3    |         | Comp_of_I0L16A | NONE | NONE |
| E12   | VSS            | Ground | N/A  |         |                |      |      |
| E13   | VCCO0          | Power  | N/A  |         |                |      |      |
| E14   | I0T9B          | I/O    | 3    |         | Comp_of_I0T9A  | NONE | NONE |
| E15   | I0T38B         | I/O    | 1    |         | Comp_of_I0T38A | NONE | NONE |
| E16   | I0T13A         | I/O    | 0    |         | True_of_I0T13B | NONE | x16  |
| E2    | I0B13A         | I/O    | 2    |         | True_of_I0B13B | TRUE | x16  |
| E3    | I0B13B         | I/O    | 2    |         | Comp_of_I0B13A | TRUE | NONE |
| E4    | VCCO2          | Power  | N/A  |         |                |      |      |
| E5    | VSS            | Ground | N/A  |         |                |      |      |
| E6    | I0L25A         | I/O    | 3    |         | True_of_I0L25B | NONE | NONE |
| E7    | I0B5B          | I/O    | 2    |         | Comp_of_I0B5A  | NONE | NONE |
| E8    | I0L23B         | I/O    | 3    |         | Comp_of_I0L23A | NONE | NONE |
| E9    | I0L21B         | I/O    | 3    |         | Comp_of_I0L21A | NONE | NONE |
| F1    | I0B16B         | I/O    | 2    |         | Comp_of_I0B16A | NONE | NONE |
| F10   | I0L3A          | I/O    | 3    |         | True_of_I0L3B  | NONE | NONE |
| F11   | VSS            | Ground | N/A  |         |                |      |      |
| F12   | I0T16A         | I/O    | 0    |         | True_of_I0T16B | NONE | NONE |
| F13   | I0T15A         | I/O    | 0    |         | True_of_I0T15B | NONE | x16  |
| F14   | I0T14A         | I/O    | 0    |         | True_of_I0T14B | NONE | NONE |
| F15   | I0T13B         | I/O    | 0    |         | Comp_of_I0T13A | NONE | NONE |
| F16   | I0T14B         | I/O    | 0    |         | Comp_of_I0T14A | NONE | NONE |
| F2    | I0B14B         | I/O    | 2    |         | Comp_of_I0B14A | NONE | NONE |
| F3    | I0B16A         | I/O    | 2    |         | True_of_I0B16B | NONE | NONE |
| F4    | I0B15A         | I/O    | 2    |         | True_of_I0B15B | TRUE | x16  |
| F5    | I0B23A         | I/O    | 2    |         | True_of_I0B23B | TRUE | x16  |
| F6    | VSS            | Ground | N/A  |         |                |      |      |



| PG256 | 管脚名               | 功能     | DQS  | BANK | 配置功能       | 差分Pair         | LVDS |
|-------|-------------------|--------|------|------|------------|----------------|------|
| F7    | IOL45A/LPLL2_T_in | I/O    | DQ2  | 6    | LPLL2_T_in | True_of_IOL45B | NONE |
| F8    | IOL35A            | I/O    | DQ2  | 6    |            | True_of_IOL35B | TRUE |
| F9    | IOL31A            | I/O    | DQ2  | 6    |            | True_of_IOL31B | TRUE |
| G1    | IOB24A            | I/O    | DQ5  | 5    |            | True_of_IOB24B | TRUE |
| G10   | VCCPLLL           | Power  |      | N/A  |            |                |      |
| G11   | IOT14A            | I/O    | DQ14 | 0    |            | True_of_IOT14B | TRUE |
| G12   | IOT8B             | I/O    | DQ15 | 0    |            | Comp_of_IOT8A  | TRUE |
| G13   | IOT12B            | I/O    | DQ14 | 0    |            | Comp_of_IOT12A | TRUE |
| G14   | IOT13B            | I/O    | DQ14 | 0    |            | Comp_of_IOT13A | NONE |
| G15   | IOT13A            | I/O    | DQ14 | 0    |            | True_of_IOT13B | NONE |
| G16   | IOT16A            | I/O    | DQ14 | 0    |            | True_of_IOT16B | TRUE |
| G2    | IOB21A            | I/O    | DQS5 | 5    |            | True_of_IOB21B | NONE |
| G3    | IOB21B            | I/O    | DQS5 | 5    |            | Comp_of_IOB21A | NONE |
| G4    | IOB20B            | I/O    | DQ5  | 5    |            | Comp_of_IOB20A | TRUE |
| G5    | IOB20A            | I/O    | DQ5  | 5    |            | True_of_IOB20B | TRUE |
| G6    | IOB18B            | I/O    | DQ5  | 5    |            | Comp_of_IOB18A | TRUE |
| G7    | VCC               | Power  |      | N/A  |            |                |      |
| G8    | VCCX              | Power  |      | N/A  |            |                |      |
| G9    | VCCO7             | Power  |      | N/A  |            |                |      |
| H1    | IOB32B            | I/O    | DQ6  | 4    |            | Comp_of_IOB32A | TRUE |
| H10   | VCCO0             | Power  |      | N/A  |            |                |      |
| H11   | IOT27A/GCLKT_0    | I/O    | DQ14 | 0    | GCLKT_0    | True_of_IOT27B | NONE |
| H12   | IOT14B            | I/O    | DQ14 | 0    |            | Comp_of_IOT14A | TRUE |
| H13   | IOT18A            | I/O    | DQ14 | 0    |            | True_of_IOT18B | TRUE |
| H14   | IOT20A            | I/O    | DQ14 | 0    |            | True_of_IOT20B | TRUE |
| H15   | IOT16B            | I/O    | DQ14 | 0    |            | Comp_of_IOT16A | TRUE |
| H16   | IOT20B            | I/O    | DQ14 | 0    |            | Comp_of_IOT20A | TRUE |
| H2    | IOB24B            | I/O    | DQ5  | 5    |            | Comp_of_IOB24A | TRUE |
| H3    | IOB32A            | I/O    | DQ6  | 4    |            | True_of_IOB32B | TRUE |
| H4    | IOB26A            | I/O    | DQ5  | 5    |            | True_of_IOB26B | TRUE |
| H5    | IOB35A            | I/O    | DQ6  | 4    |            | True_of_IOB35B | NONE |
| H6    | IOB22B            | I/O    | DQ5  | 5    |            | Comp_of_IOB22A | TRUE |
| H7    | VCCO5             | Power  |      | N/A  |            |                |      |
| H8    | VSS               | Ground |      | N/A  |            |                |      |
| H9    | VSS               | Ground |      | N/A  |            |                |      |
| J1    | IOB27A/GCLKT_5    | I/O    | DQ5  | 5    | GCLKT_5    | True_of_IOB27B | NONE |
| J10   | VCCO1             | Power  |      | N/A  |            |                |      |
| J11   | IOT32A            | I/O    | DQ13 | 1    |            | True_of_IOT32B | TRUE |
| J12   | IOT18B            | I/O    | DQ14 | 0    |            | Comp_of_IOT18A | TRUE |
| J13   | IOT27B/GCLKC_0    | I/O    | DQ14 | 0    | GCLKC_0    | Comp_of_IOT27A | NONE |
| J14   | IOT22B            | I/O    | DQ14 | 0    |            | Comp_of_IOT22A | TRUE |
| J15   | IOT24A            | I/O    | DQ14 | 0    |            | True_of_IOT24B | TRUE |
| J16   | IOT22A            | I/O    | DQ14 | 0    |            | True_of_IOT22B | TRUE |
| J2    | IOB34A            | I/O    | DQ6  | 4    |            | True_of_IOB34B | TRUE |
| J3    | IOB27B/GCLKC_5    | I/O    | DQ5  | 5    | GCLKC_5    | Comp_of_IOB27A | NONE |
| J4    | IOB35B            | I/O    | DQ6  | 4    |            | Comp_of_IOB35A | NONE |
| J5    | IOB37A            | I/O    | DQS6 | 4    |            | True_of_IOB37B | NONE |
| J6    | IOB26B            | I/O    | DQ5  | 5    |            | Comp_of_IOB26A | TRUE |
| J7    | VCCO4             | Power  |      | N/A  |            |                |      |
| J8    | VSS               | Ground |      | N/A  |            |                |      |
| J9    | VSS               | Ground |      | N/A  |            |                |      |
| K1    | IOB34B            | I/O    | DQ6  | 4    |            | Comp_of_IOB34A | TRUE |
| K10   | VCC               | Power  |      | N/A  |            |                |      |

| PG256 | 管脚名            | 功能     | BANK | 配置功能    | 差分Pair         | LVDS | X16  |
|-------|----------------|--------|------|---------|----------------|------|------|
| F7    | IOL23A         | I/O    | 3    |         | True_of_IOL23B | NONE | NONE |
| F8    | IOL20A         | I/O    | 3    |         | True_of_IOL20B | TRUE | NONE |
| F9    | IOL16A         | I/O    | 3    |         | True_of_IOL16B | NONE | NONE |
| G1    | IOB26A         | I/O    | 2    |         | True_of_IOB26B | NONE | NONE |
| G10   | VCC            | Power  | N/A  |         |                |      |      |
| G11   | IOT19A         | I/O    | 0    |         | True_of_IOT19B | NONE | NONE |
| G12   | IOT15B         | I/O    | 0    |         | Comp_of_IOT15A | NONE | NONE |
| G13   | IOT16B         | I/O    | 0    |         | Comp_of_IOT16A | NONE | NONE |
| G14   | IOT17B         | I/O    | 0    |         | Comp_of_IOT17A | NONE | NONE |
| G15   | IOT17A         | I/O    | 0    |         | True_of_IOT17B | NONE | x16  |
| G16   | IOT20A         | I/O    | 0    |         | True_of_IOT20B | NONE | NONE |
| G2    | IOB22A         | I/O    | 2    |         | True_of_IOB22B | NONE | NONE |
| G3    | IOB22B         | I/O    | 2    |         | Comp_of_IOB22A | NONE | NONE |
| G4    | IOB17B         | I/O    | 2    |         | Comp_of_IOB17A | TRUE | NONE |
| G5    | IOB17A         | I/O    | 2    |         | True_of_IOB17B | TRUE | x16  |
| G6    | IOB15B         | I/O    | 2    |         | Comp_of_IOB15A | TRUE | NONE |
| G7    | VCC            | Power  | N/A  |         |                |      |      |
| G8    | VCCX           | Power  | N/A  |         |                |      |      |
| G9    | VCCO3          | Power  | N/A  |         |                |      |      |
| H1    | IOB30B         | I/O    | 2    |         | Comp_of_IOB30A | NONE | NONE |
| H10   | VCCO0          | Power  | N/A  |         |                |      |      |
| H11   | IOT28A/GCLKT_0 | I/O    | 0    | GCLKT_0 | True_of_IOT28B | NONE | NONE |
| H12   | IOT19B         | I/O    | 0    |         | Comp_of_IOT19A | NONE | NONE |
| H13   | IOT22A         | I/O    | 0    |         | True_of_IOT22B | NONE | NONE |
| H14   | IOT23A         | I/O    | 0    |         | True_of_IOT23B | NONE | x16  |
| H15   | IOT20B         | I/O    | 0    |         | Comp_of_IOT20A | NONE | NONE |
| H16   | IOT23B         | I/O    | 0    |         | Comp_of_IOT23A | NONE | NONE |
| H2    | IOB26B         | I/O    | 2    |         | Comp_of_IOB26A | NONE | NONE |
| H3    | IOB30A         | I/O    | 2    |         | True_of_IOB30B | NONE | NONE |
| H4    | IOB27A         | I/O    | 2    |         | True_of_IOB27B | TRUE | x16  |
| H5    | IOB32A         | I/O    | 2    |         | True_of_IOB32B | NONE | NONE |
| H6    | IOB23B         | I/O    | 2    |         | Comp_of_IOB23A | TRUE | NONE |
| H7    | VCCO2          | Power  | N/A  |         |                |      |      |
| H8    | VSS            | Ground | N/A  |         |                |      |      |
| H9    | VSS            | Ground | N/A  |         |                |      |      |
| J1    | IOB28A/GCLKT_5 | I/O    | 2    | GCLKT_5 | True_of_IOB28B | NONE | NONE |
| J10   | VCCO0          | Power  | N/A  |         |                |      |      |
| J11   | IOT30A         | I/O    | 0    |         | True_of_IOT30B | NONE | NONE |
| J12   | IOT22B         | I/O    | 0    |         | Comp_of_IOT22A | NONE | NONE |
| J13   | IOT28B/GCLKC_0 | I/O    | 0    | GCLKC_0 | Comp_of_IOT28A | NONE | NONE |
| J14   | IOT25B         | I/O    | 0    |         | Comp_of_IOT25A | NONE | NONE |
| J15   | IOT27A         | I/O    | 0    |         | True_of_IOT27B | NONE | x16  |
| J16   | IOT25A         | I/O    | 0    |         | True_of_IOT25B | NONE | x16  |
| J2    | IOB31A         | I/O    | 2    |         | True_of_IOB31B | TRUE | x16  |
| J3    | IOB28B/GCLKC_5 | I/O    | 2    | GCLKC_5 | Comp_of_IOB28A | NONE | NONE |
| J4    | IOB32B         | I/O    | 2    |         | Comp_of_IOB32A | NONE | NONE |
| J5    | IOB34A         | I/O    | 2    |         | True_of_IOB34B | NONE | NONE |
| J6    | IOB27B         | I/O    | 2    |         | Comp_of_IOB27A | TRUE | NONE |
| J7    | VCCO2          | Power  | N/A  |         |                |      |      |
| J8    | VSS            | Ground | N/A  |         |                |      |      |
| J9    | VSS            | Ground | N/A  |         |                |      |      |
| K1    | IOB31B         | I/O    | 2    |         | Comp_of_IOB31A | TRUE | NONE |
| K10   | VCC            | Power  | N/A  |         |                |      |      |



| PG256 | 管脚名               | 功能     | DQS   | BANK | 配置功能       | 差分Pair         | LVDS |
|-------|-------------------|--------|-------|------|------------|----------------|------|
| K11   | IOT38A            | I/O    | DQ13  | 1    |            | True_of_IOT38B | TRUE |
| K12   | IOT36B            | I/O    | DQ13  | 1    |            | Comp_of_IOT36A | TRUE |
| K13   | IOT36A            | I/O    | DQ13  | 1    |            | True_of_IOT36B | TRUE |
| K14   | IOT30A/GCLKT_1    | I/O    | DQ13  | 1    | GCLKT_1    | True_of_IOT30B | TRUE |
| K15   | IOT30B/GCLKC_1    | I/O    | DQ13  | 1    | GCLKC_1    | Comp_of_IOT30A | TRUE |
| K16   | IOT24B            | I/O    | DQ14  | 0    |            | Comp_of_IOT24A | TRUE |
| K2    | IOB36B            | I/O    | DQ6   | 4    |            | Comp_of_IOB36A | TRUE |
| K3    | IOB36A            | I/O    | DQ6   | 4    |            | True_of_IOB36B | TRUE |
| K4    | IOB39A            | I/O    | DQ6   | 4    |            | True_of_IOB39B | NONE |
| K5    | IOB40A            | I/O    | DQ6   | 4    |            | True_of_IOB40B | TRUE |
| K6    | IOB37B            | I/O    | DQS6  | 4    |            | Comp_of_IOB37A | NONE |
| K7    | VCCPLL            | Power  |       | N/A  |            |                |      |
| K8    | VCCO3             | Power  |       | N/A  |            |                |      |
| K9    | VCCX              | Power  |       | N/A  |            |                |      |
| L1    | IOB38A            | I/O    | DQ6   | 4    |            | True_of_IOB38B | TRUE |
| L10   | IOR34B/MCLK/D4    | I/O    | DQ9   | 3    | MCLK/D4    | Comp_of_IOR34A | NONE |
| L11   | VSS               | Ground |       | N/A  |            |                |      |
| L12   | IOT32B            | I/O    | DQ13  | 1    |            | Comp_of_IOT32A | TRUE |
| L13   | IOT38B            | I/O    | DQ13  | 1    |            | Comp_of_IOT38A | TRUE |
| L14   | IOT34B            | I/O    | DQ13  | 1    |            | Comp_of_IOT34A | TRUE |
| L15   | IOT2A             | I/O    | DQ15  | 0    |            | True_of_IOT2B  | TRUE |
| L16   | IOT34A            | I/O    | DQ13  | 1    |            | True_of_IOT34B | TRUE |
| L2    | IOB30A/GCLKT_4    | I/O    | DQ6   | 4    | GCLKT_4    | True_of_IOB30B | TRUE |
| L3    | IOB38B            | I/O    | DQ6   | 4    |            | Comp_of_IOB38A | TRUE |
| L4    | IOB40B            | I/O    | DQ6   | 4    |            | Comp_of_IOB40A | TRUE |
| L5    | IOB39B            | I/O    | DQ6   | 4    |            | Comp_of_IOB39A | NONE |
| L6    | VSS               | Ground |       | N/A  |            |                |      |
| L7    | EXTR              | Ground |       | N/A  |            |                |      |
| L8    | IOR44B            | I/O    | DQ9   | 3    |            | Comp_of_IOR44A | TRUE |
| L9    | IOR40B            | I/O    | DQ9   | 3    |            | Comp_of_IOR40A | TRUE |
| M1    | IOB30B/GCLKC_4    | I/O    | DQ6   | 4    | GCLKC_4    | Comp_of_IOB30A | TRUE |
| M10   | IOR22A            | I/O    | DQS10 | 2    |            | True_of_IOR22B | TRUE |
| M11   | IOR27B/GCLKC_2    | I/O    | DQ10  | 2    | GCLKC_2    | Comp_of_IOR27A | NONE |
| M12   | VSS               | Ground |       | N/A  |            |                |      |
| M13   | VCCO1             | Power  |       | N/A  |            |                |      |
| M14   | IOT40A            | I/O    | DQ13  | 1    |            | True_of_IOT40B | TRUE |
| M15   | IOT40B            | I/O    | DQ13  | 1    |            | Comp_of_IOT40A | TRUE |
| M16   | IOR30A/MODE0      | I/O    | DQ9   | 3    | MODE0      | True_of_IOR30B | NONE |
| M2    | IOB43A            | I/O    | DQ6   | 4    |            | True_of_IOB43B | NONE |
| M3    | IOB42A            | I/O    | DQ6   | 4    |            | True_of_IOB42B | TRUE |
| M4    | VCCO4             | Power  |       | N/A  |            |                |      |
| M5    | VSS               | Ground |       | N/A  |            |                |      |
| M6    | IOR44A            | I/O    | DQ9   | 3    |            | True_of_IOR44B | TRUE |
| M7    | IOR47A/RPLL2_T_fb | I/O    | DQ8   | 3    | RPLL2_T_fb | True_of_IOR47B | TRUE |
| M8    | IOR36A/SO/D1      | I/O    | DQS9  | 3    | SO/D1      | True_of_IOR36B | NONE |
| M9    | IOR34A/MCS_N/D5   | I/O    | DQ9   | 3    | MCS_N/D5   | True_of_IOR34B | NONE |
| N1    | IOB42B            | I/O    | DQ6   | 4    |            | Comp_of_IOB42A | TRUE |
| N10   | IOR27A/GCLKT_2    | I/O    | DQ10  | 2    | GCLKT_2    | True_of_IOR27B | NONE |
| N11   | IOR22B            | I/O    | DQS10 | 2    |            | Comp_of_IOR22A | TRUE |
| N12   | VCCO2             | Power  |       | N/A  |            |                |      |
| N13   | VSS               | Ground |       | N/A  |            |                |      |
| N14   | IOT52B            | I/O    | DQ12  | 1    |            | Comp_of_IOT52A | TRUE |
| N15   | IOT48A            | I/O    | DQS12 | 1    |            | True_of_IOT48B | TRUE |

| PG256 | 管脚名             | 功能     | BANK | 配置功能     | 差分Pair         | LVDS | X16  |
|-------|-----------------|--------|------|----------|----------------|------|------|
| K11   | IOT36A          | I/O    | 1    |          | True_of_IOT36B | NONE | NONE |
| K12   | IOT34B          | I/O    | 0    |          | Comp_of_IOT34A | NONE | NONE |
| K13   | IOT34A          | I/O    | 0    |          | True_of_IOT34B | NONE | NONE |
| K14   | IOT29A/GCLKT_1  | I/O    | 0    | GCLKT_1  | True_of_IOT29B | NONE | x16  |
| K15   | IOT29B/GCLKC_1  | I/O    | 0    | GCLKC_1  | Comp_of_IOT29A | NONE | NONE |
| K16   | IOT27B          | I/O    | 0    |          | Comp_of_IOT27A | NONE | NONE |
| K2    | IOB33B          | I/O    | 2    |          | Comp_of_IOB33A | TRUE | NONE |
| K3    | IOB33A          | I/O    | 2    |          | True_of_IOB33B | TRUE | x16  |
| K4    | IOB36A          | I/O    | 2    |          | True_of_IOB36B | NONE | NONE |
| K5    | IOB37A          | I/O    | 2    |          | True_of_IOB37B | NONE | NONE |
| K6    | IOB34B          | I/O    | 2    |          | Comp_of_IOB34A | NONE | NONE |
| K7    | VCC             | Power  | N/A  |          |                |      |      |
| K8    | VCCO1           | Power  | N/A  |          |                |      |      |
| K9    | VCCX            | Power  | N/A  |          |                |      |      |
| L1    | IOB35A          | I/O    | 2    |          | True_of_IOB35B | TRUE | x16  |
| L10   | IOR12B/MCLK/D4  | I/O    | 1    | MCLK/D4  | Comp_of_IOR12A | NONE | NONE |
| L11   | VSS             | Ground | N/A  |          |                |      |      |
| L12   | IOT30B          | I/O    | 0    |          | Comp_of_IOT30A | NONE | NONE |
| L13   | IOT36B          | I/O    | 1    |          | Comp_of_IOT36A | NONE | NONE |
| L14   | IOT32B          | I/O    | 0    |          | Comp_of_IOT32A | NONE | NONE |
| L15   | IOT2A           | I/O    | 3    |          | True_of_IOT2B  | NONE | x16  |
| L16   | IOT32A          | I/O    | 0    |          | True_of_IOT32B | NONE | NONE |
| L2    | IOB29A/GCLKT_4  | I/O    | 2    | GCLKT_4  | True_of_IOB29B | TRUE | x16  |
| L3    | IOB35B          | I/O    | 2    |          | Comp_of_IOB35A | TRUE | NONE |
| L4    | IOB37B          | I/O    | 2    |          | Comp_of_IOB37A | NONE | NONE |
| L5    | IOB36B          | I/O    | 2    |          | Comp_of_IOB36A | NONE | NONE |
| L6    | VSS             | Ground | N/A  |          |                |      |      |
| L7    | IOR24B          | I/O    | 1    |          | Comp_of_IOR24A | TRUE | NONE |
| L8    | IOR21B          | I/O    | 1    |          | Comp_of_IOR21A | NONE | NONE |
| L9    | IOR18B          | I/O    | 1    |          | Comp_of_IOR18A | NONE | NONE |
| M1    | IOB29B/GCLKC_4  | I/O    | 2    | GCLKC_4  | Comp_of_IOB29A | TRUE | NONE |
| M10   | IOR7A           | I/O    | 1    |          | True_of_IOR7B  | NONE | NONE |
| M11   | IOR9B/GCLKC_2   | I/O    | 1    | GCLKC_2  | Comp_of_IOR9A  | NONE | NONE |
| M12   | VSS             | Ground | N/A  |          |                |      |      |
| M13   | VCCO0           | Power  | N/A  |          |                |      |      |
| M14   | IOT37A          | I/O    | 1    |          | True_of_IOT37B | NONE | NONE |
| M15   | IOT37B          | I/O    | 1    |          | Comp_of_IOT37A | NONE | NONE |
| M16   | IOT5A/MODE0     | I/O    | 3    | MODE0    | True_of_IOT5B  | NONE | NONE |
| M2    | IOB40A          | I/O    | 2    |          | True_of_IOB40B | NONE | NONE |
| M3    | IOB39A          | I/O    | 2    |          | True_of_IOB39B | TRUE | x16  |
| M4    | VCCO2           | Power  | N/A  |          |                |      |      |
| M5    | VSS             | Ground | N/A  |          |                |      |      |
| M6    | IOR21A          | I/O    | 1    |          | True_of_IOR21B | NONE | NONE |
| M7    | IOR22A          | I/O    | 1    |          | True_of_IOR22B | TRUE | NONE |
| M8    | IOR14A/SO/D1    | I/O    | 1    | SO/D1    | True_of_IOR14B | NONE | NONE |
| M9    | IOR12A/MCS_N/D5 | I/O    | 1    | MCS_N/D5 | True_of_IOR12B | NONE | NONE |
| N1    | IOB39B          | I/O    | 2    |          | Comp_of_IOB39A | TRUE | NONE |
| N10   | IOR9A/GCLKT_2   | I/O    | 1    | GCLKT_2  | True_of_IOR9B  | NONE | NONE |
| N11   | IOR7B           | I/O    | 1    |          | Comp_of_IOR7A  | NONE | NONE |
| N12   | VCCO1           | Power  | N/A  |          |                |      |      |
| N13   | VSS             | Ground | N/A  |          |                |      |      |
| N14   | IOT41B          | I/O    | 1    |          | Comp_of_IOT41A | NONE | NONE |
| N15   | IOT39A          | I/O    | 1    |          | True_of_IOT39B | NONE | x16  |

| PG256 | 管脚名                 | 功能     | DQS   | BANK | 配置功能         | 差分Pair         | LVDS |
|-------|---------------------|--------|-------|------|--------------|----------------|------|
| N16   | IOT52A              | I/O    | DQ12  | 1    |              | True_of_IOT52B | TRUE |
| N2    | IOB41A              | I/O    | DQ6   | 4    |              | True_of_IOB41B | NONE |
| N3    | IOB43B              | I/O    | DQ6   | 4    |              | Comp_of_IOB43A | NONE |
| N4    | VSS                 | Ground |       | N/A  |              |                |      |
| N5    | VCCO3               | Power  |       | N/A  |              |                |      |
| N6    | IOR51A              | I/O    | DQ8   | 3    |              | True_of_IOR51B | TRUE |
| N7    | IOR47B/RPLL2_C_fb   | I/O    | DQ8   | 3    | RPLL2_C_fb   | Comp_of_IOR47A | TRUE |
| N8    | IOR40A              | I/O    | DQ9   | 3    |              | True_of_IOR40B | TRUE |
| N9    | IOR36B/SSPI_CS_N/D0 | I/O    | DQS9  | 3    | SSPI_CS_N/D0 | Comp_of_IOR36A | NONE |
| P1    | IOB41B              | I/O    | DQ6   | 4    |              | Comp_of_IOB41A | NONE |
| P10   | IOR33A/M/D7         | I/O    | DQ9   | 3    | M/D7         | True_of_IOR33B | TRUE |
| P11   | IOR24B              | I/O    | DQ10  | 2    |              | Comp_of_IOR24A | TRUE |
| P12   | IOR8A/RPLL1_T_fb    | I/O    | DQ11  | 2    | RPLL1_T_fb   | True_of_IOR8B  | TRUE |
| P13   | IOR11B              | I/O    | DQ10  | 2    |              | Comp_of_IOR11A | TRUE |
| P14   | VSS                 | Ground |       | N/A  |              |                |      |
| P15   | IOT54A              | I/O    | DQ12  | 1    |              | True_of_IOT54B | TRUE |
| P16   | IOT48B              | I/O    | DQS12 | 1    |              | Comp_of_IOT48A | TRUE |
| P2    | IOB44B              | I/O    | DQ6   | 4    |              | Comp_of_IOB44A | TRUE |
| P3    | VSS                 | Ground |       | N/A  |              |                |      |
| P4    | IOB45A              | I/O    | DQ6   | 4    |              | True_of_IOB45B | NONE |
| P5    | IOB50A              | I/O    | DQ7   | 4    |              | True_of_IOB50B | TRUE |
| P6    | IOR53A              | I/O    | DQ8   | 3    |              | True_of_IOR53B | TRUE |
| P7    | IOR49B              | I/O    | DQ8   | 3    |              | Comp_of_IOR49A | TRUE |
| P8    | IOR42A              | I/O    | DQ9   | 3    |              | True_of_IOR42B | TRUE |
| P9    | IOR38B/DOUT/WE_N    | I/O    | DQ9   | 3    | DOUT/WE_N    | Comp_of_IOR38A | TRUE |
| R1    | IOB44A              | I/O    | DQ6   | 4    |              | True_of_IOB44B | TRUE |
| R10   | IOR33B/MO/D6        | I/O    | DQ9   | 3    | MO/D6        | Comp_of_IOR33A | TRUE |
| R11   | IOR17A              | I/O    | DQ10  | 2    |              | True_of_IOR17B | TRUE |
| R12   | IOR11A              | I/O    | DQ10  | 2    |              | True_of_IOR11B | TRUE |
| R13   | IOR20A              | I/O    | DQ10  | 2    |              | True_of_IOR20B | TRUE |
| R14   | IOR7B/RPLL1_C_in    | I/O    | DQ11  | 2    | RPLL1_C_in   | Comp_of_IOR7A  | NONE |
| R15   | VSS                 | Ground |       | N/A  |              |                |      |
| R16   | IOT54B              | I/O    | DQ12  | 1    |              | Comp_of_IOT54A | TRUE |
| R2    | VSS                 | Ground |       | N/A  |              |                |      |
| R3    | IOB48A              | I/O    | DQS7  | 4    |              | True_of_IOB48B | TRUE |
| R4    | IOB52A              | I/O    | DQ7   | 4    |              | True_of_IOB52B | TRUE |
| R5    | IOB50B              | I/O    | DQ7   | 4    |              | Comp_of_IOB50A | TRUE |
| R6    | IOB54A              | I/O    | DQ7   | 4    |              | True_of_IOB54B | TRUE |
| R7    | IOR49A              | I/O    | DQ8   | 3    |              | True_of_IOR49B | TRUE |
| R8    | IOR29B/GCLKC_3      | I/O    | DQ9   | 3    | GCLKC_3      | Comp_of_IOR29A | TRUE |
| R9    | IOR35A/FASTRD_N/D3  | I/O    | DQ9   | 3    | FASTRD_N/D3  | True_of_IOR35B | TRUE |
| T1    | VCC                 | Power  |       | N/A  |              |                |      |
| T10   | IOR35B/SI/D2        | I/O    | DQ9   | 3    | SI/D2        | Comp_of_IOR35A | TRUE |
| T11   | IOR24A              | I/O    | DQ10  | 2    |              | True_of_IOR24B | TRUE |
| T12   | IOR17B              | I/O    | DQ10  | 2    |              | Comp_of_IOR17A | TRUE |
| T13   | IOR8B/RPLL1_C_fb    | I/O    | DQ11  | 2    | RPLL1_C_fb   | Comp_of_IOR8A  | TRUE |
| T14   | IOR20B              | I/O    | DQ10  | 2    |              | Comp_of_IOR20A | TRUE |
| T15   | IOR7A/RPLL1_T_in    | I/O    | DQ11  | 2    | RPLL1_T_in   | True_of_IOR7B  | NONE |
| T16   | VCC                 | Power  |       | N/A  |              |                |      |
| T2    | IOB48B              | I/O    | DQS7  | 4    |              | Comp_of_IOB48A | TRUE |
| T3    | IOB52B              | I/O    | DQ7   | 4    |              | Comp_of_IOB52A | TRUE |
| T4    | IOB45B              | I/O    | DQ6   | 4    |              | Comp_of_IOB45A | NONE |

| PG256 | 管脚名                 | 功能     | BANK | 配置功能         | 差分Pair         | LVDS | X16  |
|-------|---------------------|--------|------|--------------|----------------|------|------|
| N16   | IOT41A              | I/O    | 1    |              | True_of_IOT41B | NONE | x16  |
| N2    | IOB38A              | I/O    | 2    |              | True_of_IOB38B | NONE | NONE |
| N3    | IOB40B              | I/O    | 2    |              | Comp_of_IOB40A | NONE | NONE |
| N4    | VSS                 | Ground | N/A  |              |                |      |      |
| N5    | VCCO1               | Power  | N/A  |              |                |      |      |
| N6    | IOR24A              | I/O    | 1    |              | True_of_IOR24B | TRUE | NONE |
| N7    | IOR22B              | I/O    | 1    |              | Comp_of_IOR22A | TRUE | NONE |
| N8    | IOR18A              | I/O    | 1    |              | True_of_IOR18B | NONE | NONE |
| N9    | IOR14B/SSPI_CS_N/D0 | I/O    | 1    | SSPI_CS_N/D0 | Comp_of_IOR14A | NONE | NONE |
| P1    | IOB38B              | I/O    | 2    |              | Comp_of_IOB38A | NONE | NONE |
| P10   | IOR11A/M/D7         | I/O    | 1    | M/D7         | True_of_IOR11B | TRUE | NONE |
| P11   | IOR8B               | I/O    | 1    |              | Comp_of_IOR8A  | TRUE | NONE |
| P12   | IOR6A/RPLL_T_fb     | I/O    | 1    | RPLL_T_fb    | True_of_IOR6B  | TRUE | NONE |
| P13   | IOT46B              | I/O    | 1    |              | Comp_of_IOT46A | NONE | NONE |
| P14   | VSS                 | Ground | N/A  |              |                |      |      |
| P15   | IOT42A              | I/O    | 1    |              | True_of_IOT42B | NONE | NONE |
| P16   | IOT39B              | I/O    | 1    |              | Comp_of_IOT39A | NONE | NONE |
| P2    | IOB41B              | I/O    | 2    |              | Comp_of_IOB41A | TRUE | NONE |
| P3    | VSS                 | Ground | N/A  |              |                |      |      |
| P4    | IOB42B              | I/O    | 2    |              | Comp_of_IOB42A | NONE | NONE |
| P5    | IOB44B              | I/O    | 2    |              | Comp_of_IOB44A | NONE | NONE |
| P6    | IOR25A              | I/O    | 1    |              | True_of_IOR25B | NONE | NONE |
| P7    | IOR23B              | I/O    | 1    |              | Comp_of_IOR23A | NONE | NONE |
| P8    | IOR20A              | I/O    | 1    |              | True_of_IOR20B | TRUE | NONE |
| P9    | IOR15B/DOUT/WE_N    | I/O    | 1    | DOUT/WE_N    | Comp_of_IOR15A | TRUE | NONE |
| R1    | IOB41A              | I/O    | 2    |              | True_of_IOB41B | TRUE | x16  |
| R10   | IOR11B/MO/D6        | I/O    | 1    | MO/D6        | Comp_of_IOR11A | TRUE | NONE |
| R11   | IOR3A               | I/O    | 1    |              | True_of_IOR3B  | NONE | NONE |
| R12   | IOT46A              | I/O    | 1    |              | True_of_IOT46B | NONE | NONE |
| R13   | IOR4A               | I/O    | 1    |              | True_of_IOR4B  | TRUE | NONE |
| R14   | IOR5B/RPLL_C_in     | I/O    | 1    | RPLL_C_in    | Comp_of_IOR5A  | NONE | NONE |
| R15   | VSS                 | Ground | N/A  |              |                |      |      |
| R16   | IOT42B              | I/O    | 1    |              | Comp_of_IOT42A | NONE | NONE |
| R2    | VSS                 | Ground | N/A  |              |                |      |      |
| R3    | IOB43B              | I/O    | 2    |              | Comp_of_IOB43A | TRUE | NONE |
| R4    | IOB45B              | I/O    | 2    |              | Comp_of_IOB45A | TRUE | NONE |
| R5    | IOB44A              | I/O    | 2    |              | True_of_IOB44B | NONE | NONE |
| R6    | IOR27B              | I/O    | 1    |              | Comp_of_IOR27A | NONE | NONE |
| R7    | IOR23A              | I/O    | 1    |              | True_of_IOR23B | NONE | NONE |
| R8    | IOR17B/GCLKC_3      | I/O    | 1    | GCLKC_3      | Comp_of_IOR17A | TRUE | NONE |
| R9    | IOR13A/FASTRD_N/D3  | I/O    | 1    | FASTRD_N/D3  | True_of_IOR13B | TRUE | NONE |
| T1    | VCC                 | Power  | N/A  |              |                |      |      |
| T10   | IOR13B/SI/D2        | I/O    | 1    | SI/D2        | Comp_of_IOR13A | TRUE | NONE |
| T11   | IOR8A               | I/O    | 1    |              | True_of_IOR8B  | TRUE | NONE |
| T12   | IOR3B               | I/O    | 1    |              | Comp_of_IOR3A  | NONE | NONE |
| T13   | IOR6B/RPLL_C_fb     | I/O    | 1    | RPLL_C_fb    | Comp_of_IOR6A  | TRUE | NONE |
| T14   | IOR4B               | I/O    | 1    |              | Comp_of_IOR4A  | TRUE | NONE |
| T15   | IOR5A/RPLL_T_in     | I/O    | 1    | RPLL_T_in    | True_of_IOR5B  | NONE | NONE |
| T16   | VCC                 | Power  | N/A  |              |                |      |      |
| T2    | IOB43A              | I/O    | 2    |              | True_of_IOB43B | TRUE | x16  |
| T3    | IOB45A              | I/O    | 2    |              | True_of_IOB45B | TRUE | x16  |
| T4    | IOB42A              | I/O    | 2    |              | True_of_IOB42B | NONE | NONE |

| PG256 | 管脚名                  | 功能  | DQS | BANK | 配置功能          | 差分Pair         | LVDS |
|-------|----------------------|-----|-----|------|---------------|----------------|------|
| T5    | I0B54B               | I/O | DQ7 | 4    |               | Comp_of_I0B54A | TRUE |
| T6    | I0R53B               | I/O | DQ8 | 3    |               | Comp_of_I0R53A | TRUE |
| T7    | I0R29A/GCLKT_3       | I/O | DQ9 | 3    | GCLKT_3       | True_of_I0R29B | TRUE |
| T8    | I0R42B               | I/O | DQ9 | 3    |               | Comp_of_I0R42A | TRUE |
| T9    | I0R38A/DIN/CLKHOLD_N | I/O | DQ9 | 3    | DIN/CLKHOLD_N | True_of_I0R38B | TRUE |

| PG256 | 管脚名                  | 功能  | BANK | 配置功能          | 差分Pair         | LVDS | X16  |
|-------|----------------------|-----|------|---------------|----------------|------|------|
| T5    | I0R27A               | I/O | 1    |               | True_of_I0R27B | NONE | NONE |
| T6    | I0R25B               | I/O | 1    |               | Comp_of_I0R25A | NONE | NONE |
| T7    | I0R17A/GCLKT_3       | I/O | 1    | GCLKT_3       | True_of_I0R17B | TRUE | NONE |
| T8    | I0R20B               | I/O | 1    |               | Comp_of_I0R20A | TRUE | NONE |
| T9    | I0R15A/DIN/CLKHOLD_N | I/O | 1    | DIN/CLKHOLD_N | True_of_I0R15B | TRUE | NONE |