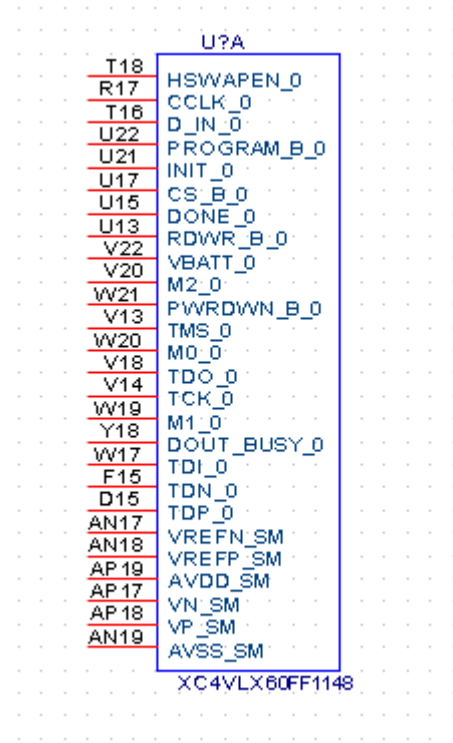


## Schematic Symbol for XC4VLX60FF1148

The Schematic symbol consists of 14 heterogeneous parts that are listed below:

### 1. Programming Interface



## 2. I/O Banks 1 and 2

| U?B |                      |       |
|-----|----------------------|-------|
| N19 |                      | AK16  |
| N18 | IO_L1P_D31_LC_1      | AL16  |
| L15 | IO_L1N_D30_LC_1      | AE19  |
| L14 | IO_L2P_D29_LC_1      | AD19  |
| E21 | IO_L2N_D28_LC_1      | AH14  |
| D21 | IO_L3P_D27_LC_1      | AG15  |
| J14 | IO_L3N_D26_LC_1      | AH20  |
| K14 | IO_L4P_D25_LC_1      | AG20  |
| N20 | IO_L4N_D24_VREF_LC_1 | AJ14  |
| M20 | IO_L5P_D23_LC_1      | AJ15  |
| H14 | IO_L5N_D22_LC_1      | AL20  |
| H13 | IO_L6P_D21_LC_1      | AJ20  |
| H22 | IO_L6N_D20_LC_1      | AL15  |
| J21 | IO_L7P_D19_LC_1      | AM15  |
| F13 | IO_L7N_D18_LC_1      | AD20  |
| G13 | IO_L8P_D17_CC_LC_1   | AD21  |
| M18 | IO_L8N_D16_CC_LC_1   | AM16  |
| L18 | IO_L9P_GC_LC_1       | AM17  |
| M17 | IO_L9N_GC_LC_1       | AM18  |
| N17 | IO_L10P_GC_LC_1      | AL18  |
| E19 | IO_L10N_GC_LC_1      | AB16  |
| D19 | IO_L11P_GC_LC_1      | AB17  |
| C17 | IO_L11N_GC_LC_1      | AL19  |
| D17 | IO_L12P_GC_LC_1      | AM20  |
| C19 | IO_L12N_GC_VREF_LC_1 | AC17  |
| C18 | IO_L13P_GC_LC_1      | AD17  |
| D16 | IO_L13N_GC_LC_1      | AP 20 |
| C15 | IO_L14P_GC_LC_1      | AN20  |
| D20 | IO_L14N_GC_LC_1      | AF15  |
| C20 | IO_L15P_GC_LC_1      | AD16  |
| M16 | IO_L15N_GC_LC_1      | AB18  |
| N15 | IO_L16P_GC_CC_LC_1   | AC19  |
| B20 | IO_L16N_GC_CC_LC_1   | AN15  |
| A20 | IO_L17P_CC_LC_1      | AP 15 |
| K16 | IO_L17N_CC_LC_1      | AF21  |
| L16 | IO_L18P_VRN_LC_1     | AE 21 |
| J20 | IO_L18N_VRP_LC_1     | AG13  |
| L19 | IO_L19P_LC_1         | AF14  |
| H15 | IO_L19N_LC_1         | AF20  |
| J15 | IO_L20P_LC_1         | AG21  |
| G21 | IO_L20N_VREF_LC_1    | AK14  |
| H20 | IO_L21P_LC_1         | AL14  |
| G15 | IO_L21N_LC_1         | AH22  |
| F14 | IO_L22P_LC_1         | AG22  |
| F21 | IO_L22N_LC_1         | AB15  |
| F20 | IO_L23P_LC_1         | AC15  |
| A15 | IO_L23N_LC_1         | AJ21  |
| B15 | IO_L24P_LC_1         | AJ22  |
|     | IO_L24N_LC_1         |       |

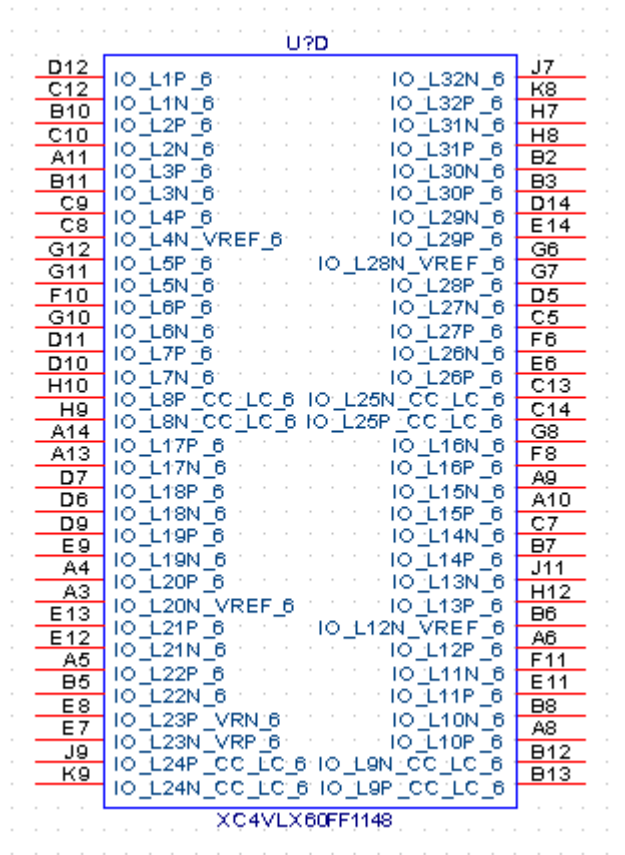
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### 3. I/O Banks 3, 4 and 5

| U?C  |                     |                 |     |
|------|---------------------|-----------------|-----|
| F18  | IO_L1P_GC_CC_LC_3   | IO_L32N_5       | F31 |
| G18  | IO_L1N_GC_CC_LC_3   | IO_L32P_5       | E31 |
| H17  | IO_L2P_GC_VRN_LC_3  | IO_L31N_5       | B33 |
| J17  | IO_L2N_GC_VRP_LC_3  | IO_L31P_5       | B32 |
| H19  | IO_L3P_GC_LC_3      | IO_L30N_5       | L26 |
| H18  | IO_L3N_GC_LC_3      | IO_L30P_5       | L25 |
| E18  | IO_L4P_GC_LC_3      | IO_L29N_5       | E29 |
| E17  | IO_L4N_GC_VREF_LC_3 | IO_L29P_5       | D29 |
| K18  | IO_L5P_GC_LC_3      | IO_L28N_VREF_5  | F30 |
| K17  | IO_L5N_GC_LC_3      | IO_L28P_5       | F29 |
| E16  | IO_L6P_GC_LC_3      | IO_L27N_5       | G28 |
| F16  | IO_L6N_GC_LC_3      | IO_L27P_5       | G27 |
| K19  | IO_L7P_GC_LC_3      | IO_L26N_5       | D31 |
| J19  | IO_L7N_GC_LC_3      | IO_L26P_5       | D30 |
| G17  | IO_L8P_GC_LC_3      | IO_L25N_CC_LC_5 | C28 |
| G16  | IO_L8N_GC_LC_3      | IO_L25P_CC_LC_5 | B28 |
| AF18 | IO_L1P_GC_LC_4      | IO_L16N_5       | K26 |
| AE18 | IO_L1N_GC_LC_4      | IO_L16P_5       | J25 |
| AG16 | IO_L2P_GC_LC_4      | IO_L15N_5       | C25 |
| AF16 | IO_L2N_GC_LC_4      | IO_L15P_5       | B25 |
| AH19 | IO_L3P_GC_LC_4      | IO_L14N_5       | A29 |
| AH18 | IO_L3N_GC_LC_4      | IO_L14P_5       | A28 |
| AK18 | IO_L4P_GC_LC_4      | IO_L13N_5       | H24 |
| AK17 | IO_L4N_GC_VREF_LC_4 | IO_L13P_5       | G23 |
| AG18 | IO_L5P_GC_LC_4      | IO_L12N_VREF_5  | E27 |
| AG17 | IO_L5N_GC_LC_4      | IO_L12P_5       | D27 |
| AE17 | IO_L6P_GC_LC_4      | IO_L11N_5       | E24 |
| AE16 | IO_L6N_GC_LC_4      | IO_L11P_5       | F24 |
| AJ19 | IO_L7P_GC_VRN_LC_4  | IO_L10N_5       | E26 |
| AK19 | IO_L7N_GC_VRP_LC_4  | IO_L10P_5       | D26 |
| AJ17 | IO_L8P_GC_CC_LC_4   | IO_L9N_CC_LC_5  | E23 |
| AH17 | IO_L8N_GC_CC_LC_4   | IO_L9P_CC_LC_5  | F23 |
| B23  | IO_L1P_5            | IO_L24N_CC_LC_5 | B31 |
| A23  | IO_L1N_5            | IO_L24P_CC_LC_5 | A31 |
| A26  | IO_L2P_5            | IO_L23N_VRP_5   | D22 |
| B26  | IO_L2N_5            | IO_L23P_VRN_5   | E22 |
| A24  | IO_L3P_5            | IO_L22N_5       | F28 |
| A25  | IO_L3N_5            | IO_L22P_5       | E28 |
| G25  | IO_L4P_5            | IO_L21N_5       | A21 |
| H25  | IO_L4N_VREF_5       | IO_L21P_5       | B21 |
| C23  | IO_L5P_5            | IO_L20N_VREF_5  | C30 |
| C24  | IO_L5N_5            | IO_L20P_5       | C29 |
| F25  | IO_L6P_5            | IO_L19N_5       | J24 |
| F26  | IO_L6N_5            | IO_L19P_5       | K24 |
| D24  | IO_L7P_5            | IO_L18N_5       | B30 |
| D25  | IO_L7N_5            | IO_L18P_5       | A30 |
| B27  | IO_L8P_CC_LC_5      | IO_L17N_5       | B22 |
| C27  | IO_L8N_CC_LC_5      | IO_L17P_5       | C22 |

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#### 4. I/O Bank 6



### 5. I/O Bank 7

| U?E   |                     |                |       |
|-------|---------------------|----------------|-------|
| AL24  | IO_L25P_CC_SM7_LC_7 | IO_L18N_7      | AH27  |
| AL25  | IO_L25N_CC_SM7_LC_7 | IO_L18P_7      | AJ27  |
| AL26  | IO_L26P_SM6_7       | IO_L15N_7      | AP 26 |
| AK26  | IO_L26N_SM6_7       | IO_L15P_7      | AP 25 |
| AN22  | IO_L27P_SM5_7       | IO_L14N_7      | AL29  |
| AN23  | IO_L27N_SM5_7       | IO_L14P_7      | AL28  |
| AJ25  | IO_L28P_7           | IO_L13N_7      | AK23  |
| AH25  | IO_L28N_VREF_7      | IO_L13P_7      | AK22  |
| AP 24 | IO_L29P_SM4_7       | IO_L12N_VREF_7 | AP 32 |
| AN24  | IO_L29N_SM4_7       | IO_L12P_7      | AP 31 |
| AM26  | IO_L30P_SM3_7       | IO_L11N_7      | AN27  |
| AM27  | IO_L30N_SM3_7       | IO_L11P_7      | AP 27 |
| AL23  | IO_L31P_SM2_7       | IO_L10N_7      | AL30  |
| AM23  | IO_L31N_SM2_7       | IO_L10P_7      | AM30  |
| AN25  | IO_L32P_SM1_7       | IO_L9N_CC_LC_7 | AM22  |
| AM25  | IO_L32N_SM1_7       | IO_L9P_CC_LC_7 | AM21  |
| AP 21 | IO_L17P_7           | IO_L8N_CC_LC_7 | AG28  |
| AP 22 | IO_L17N_7           | IO_L8P_CC_LC_7 | AG27  |
| AP 29 | IO_L18P_7           | IO_L7N_7       | AN30  |
| AN29  | IO_L18N_7           | IO_L7P_7       | AP 30 |
| AK24  | IO_L19P_7           | IO_L6N_7       | AH29  |
| AJ24  | IO_L19N_7           | IO_L6P_7       | AH28  |
| AK27  | IO_L20P_7           | IO_L5N_7       | AL21  |
| AK28  | IO_L20N_VREF_7      | IO_L5P_7       | AK21  |
| AG23  | IO_L21P_7           | IO_L4N_VREF_7  | AN33  |
| AF24  | IO_L21N_7           | IO_L4P_7       | AN32  |
| AG25  | IO_L22P_7           | IO_L3N_7       | AE 26 |
| AG26  | IO_L22N_7           | IO_L3P_7       | AF 26 |
| AH23  | IO_L23P_VRN_7       | IO_L2N_7       | AE 27 |
| AH24  | IO_L23N_VRP_7       | IO_L2P_7       | AF 28 |
| AN28  | IO_L24P_CC_LC_7     | IO_L1N_7       | AJ29  |
| AM28  | IO_L24N_CC_LC_7     | IO_L1P_7       | AK29  |

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## 6. I/O Bank 8

| U?F  |                 |                |      |
|------|-----------------|----------------|------|
| AL11 | IO_L25P_CC_LC_8 | IO_L16N_8      | AN5  |
| AL10 | IO_L25N_CC_LC_8 | IO_L16P_8      | AP5  |
| AE11 | IO_L26P_8       | IO_L15N_8      | AJ9  |
| AF11 | IO_L26N_8       | IO_L15P_8      | AJ10 |
| AM12 | IO_L27P_8       | IO_L14N_8      | AM5  |
| AM11 | IO_L27N_8       | IO_L14P_8      | AM6  |
| AL9  | IO_L28P_8       | IO_L13N_8      | AN13 |
| AK9  | IO_L28N_VREF_8  | IO_L13P_8      | AM13 |
| AP11 | IO_L29P_8       | IO_L12N_VREF_8 | AH7  |
| AP10 | IO_L29N_8       | IO_L12P_8      | AH8  |
| AH10 | IO_L30P_8       | IO_L11N_8      | AK8  |
| AG10 | IO_L30N_8       | IO_L11P_8      | AL8  |
| AN12 | IO_L31P_8       | IO_L10N_8      | AK6  |
| AP12 | IO_L31N_8       | IO_L10P_8      | AL6  |
| AP9  | IO_L32P_8       | IO_L9N_CC_LC_8 | AL13 |
| AN9  | IO_L32N_8       | IO_L9P_CC_LC_8 | AK13 |
| AH12 | IO_L17P_8       | IO_L8N_CC_LC_8 | AN2  |
| AG11 | IO_L17N_8       | IO_L8P_CC_LC_8 | AN3  |
| AN7  | IO_L18P_8       | IO_L7N_8       | AJ7  |
| AM7  | IO_L18N_8       | IO_L7P_8       | AK7  |
| AN10 | IO_L19P_8       | IO_L6N_8       | AJ5  |
| AM10 | IO_L19N_8       | IO_L6P_8       | AJ6  |
| AF10 | IO_L20P_8       | IO_L5N_8       | AP14 |
| AE9  | IO_L20N_VREF_8  | IO_L5P_8       | AN14 |
| AJ12 | IO_L21P_8       | IO_L4N_VREF_8  | AD9  |
| AK12 | IO_L21N_8       | IO_L4P_8       | AD10 |
| AN8  | IO_L22P_8       | IO_L3N_8       | AN4  |
| AM8  | IO_L22N_8       | IO_L3P_8       | AP4  |
| AJ11 | IO_L23P_VRN_8   | IO_L2N_8       | AJ4  |
| AK11 | IO_L23N_VRP_8   | IO_L2P_8       | AK4  |
| AP7  | IO_L24P_CC_LC_8 | IO_L1N_8       | AL4  |
| AP6  | IO_L24N_CC_LC_8 | IO_L1P_8       | AL5  |

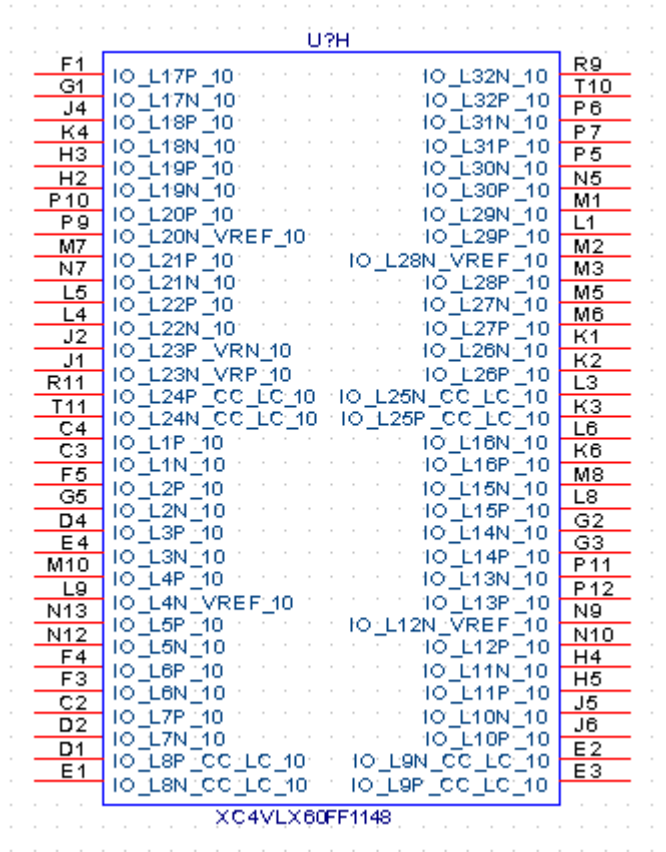
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## 7. I/O Bank 9

| U?G  |                 |                 |      |
|------|-----------------|-----------------|------|
| P 20 | IO_L17P_9       | IO_L32N_9       | M33  |
| R19  | IO_L17N_9       | IO_L32P_9       | M32  |
| L28  | IO_L18P_9       | IO_L31N_9       | L34  |
| L29  | IO_L18N_9       | IO_L31P_9       | L33  |
| P 24 | IO_L19P_9       | IO_L30N_9       | N30  |
| R24  | IO_L19N_9       | IO_L30P_9       | N29  |
| H32  | IO_L20P_9       | IO_L29N_9       | K34  |
| J32  | IO_L20N_VREF_9  | IO_L29P_9       | J34  |
| M27  | IO_L21P_9       | IO_L28N_VREF_9  | M31  |
| M28  | IO_L21N_9       | IO_L28P_9       | M30  |
| H33  | IO_L22P_9       | IO_L27N_9       | P 27 |
| H34  | IO_L22N_9       | IO_L27P_9       | N27  |
| J31  | IO_L23P_VRN_9   | IO_L26N_9       | K33  |
| K31  | IO_L23N_VRP_9   | IO_L26P_9       | K32  |
| L30  | IO_L24P_CC_LC_9 | IO_L25N_CC_LC_9 | R23  |
| L31  | IO_L24N_CC_LC_9 | IO_L25P_CC_LC_9 | R22  |
| H27  | IO_L1P_9        | IO_L16N_9       | G33  |
| H28  | IO_L1N_9        | IO_L16P_9       | G32  |
| C32  | IO_L2P_9        | IO_L15N_9       | K29  |
| D32  | IO_L2N_9        | IO_L15P_9       | K28  |
| J27  | IO_L3P_9        | IO_L14N_9       | F34  |
| K27  | IO_L3N_9        | IO_L14P_9       | F33  |
| M25  | IO_L4P_9        | IO_L13N_9       | R21  |
| M26  | IO_L4N_VREF_9   | IO_L13P_9       | P 22 |
| N22  | IO_L5P_9        | IO_L12N_VREF_9  | P 26 |
| N23  | IO_L5N_9        | IO_L12P_9       | N25  |
| H29  | IO_L6P_9        | IO_L11N_9       | E 33 |
| H30  | IO_L6N_9        | IO_L11P_9       | E 32 |
| C33  | IO_L7P_9        | IO_L10N_9       | J30  |
| C34  | IO_L7N_9        | IO_L10P_9       | J29  |
| D34  | IO_L8P_CC_LC_9  | IO_L9N_CC_LC_9  | G31  |
| E 34 | IO_L8N_CC_LC_9  | IO_L9P_CC_LC_9  | G30  |

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### 8. I/O Bank 10



### 9. I/O Bank 11

| U?1  |                  |                  |      |
|------|------------------|------------------|------|
| AA23 |                  |                  | AH30 |
| AA24 | IO_L17P_11       | IO_L32N_11       | AJ30 |
| AJ34 | IO_L17N_11       | IO_L32P_11       | AL31 |
| AH34 | IO_L18P_11       | IO_L31N_11       | AM31 |
| AD27 | IO_L18N_11       | IO_L31P_11       | AL34 |
| AC27 | IO_L19P_11       | IO_L30N_11       | AL33 |
| AB25 | IO_L19N_11       | IO_L30P_11       | AB23 |
| AB26 | IO_L20P_11       | IO_L29N_11       | AB22 |
| AG30 | IO_L20N_VREF_11  | IO_L29P_11       | AJ32 |
| AG31 | IO_L21P_11       | IO_L28N_VREF_11  | AJ31 |
| AH32 | IO_L21N_11       | IO_L28P_11       | AM33 |
| AH33 | IO_L22P_11       | IO_L27N_11       | AM32 |
| AC25 | IO_L22N_11       | IO_L27P_11       | AK34 |
| AD26 | IO_L23P_VRN_11   | IO_L26N_11       | AK33 |
| AF29 | IO_L23N_VRP_11   | IO_L26P_11       | AK32 |
| AF30 | IO_L24P_CC_LC_11 | IO_L25N_CC_LC_11 | AK31 |
| AA28 | IO_L24N_CC_LC_11 | IO_L25P_CC_LC_11 | AE31 |
| AA29 | IO_L1P_11        | IO_L16N_11       | AF31 |
| W24  | IO_L1N_11        | IO_L16P_11       | AD29 |
| Y24  | IO_L2P_11        | IO_L15N_11       | AE29 |
| AB30 | IO_L2N_11        | IO_L15P_11       | AF34 |
| AA30 | IO_L3P_11        | IO_L14N_11       | AF33 |
| W25  | IO_L3N_11        | IO_L14P_11       | AG33 |
| Y26  | IO_L4P_11        | IO_L13N_11       | AG32 |
| AE33 | IO_L4N_VREF_11   | IO_L13P_11       | AD31 |
| AE34 | IO_L5P_11        | IO_L12N_VREF_11  | AD30 |
| AC32 | IO_L5N_11        | IO_L12P_11       | AB28 |
| AC33 | IO_L6P_11        | IO_L11N_11       | AC28 |
| AC29 | IO_L6N_11        | IO_L11P_11       | AD32 |
| AC30 | IO_L7P_11        | IO_L10N_11       | AE32 |
| AD34 | IO_L7N_11        | IO_L10P_11       | AA26 |
| AC34 | IO_L8P_CC_LC_11  | IO_L9N_CC_LC_11  | AA25 |
|      | IO_L8N_CC_LC_11  | IO_L9P_CC_LC_11  |      |

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10. I/O Bank 12

| U?J  |                  |                  |      |
|------|------------------|------------------|------|
| AC9  | IO_L17P_12       | IO_L32N_12       | AL3  |
| AC8  | IO_L17N_12       | IO_L32P_12       | AM3  |
| AG3  | IO_L18P_12       | IO_L31N_12       | AG7  |
| AF3  | IO_L18N_12       | IO_L31P_12       | AG8  |
| AF6  | IO_L19P_12       | IO_L30N_12       | AM1  |
| AE6  | IO_L19N_12       | IO_L30P_12       | AM2  |
| AF5  | IO_L20P_12       | IO_L29N_12       | AB12 |
| AF4  | IO_L20N_VREF_12  | IO_L29P_12       | AB13 |
| AL1  | IO_L21P_12       | IO_L28N_VREF_12  | AH4  |
| AK1  | IO_L21N_12       | IO_L28P_12       | AH5  |
| AJ2  | IO_L22P_12       | IO_L27N_12       | AE8  |
| AJ1  | IO_L22N_12       | IO_L27P_12       | AF8  |
| AG6  | IO_L23P_VRN_12   | IO_L26N_12       | AK2  |
| AG5  | IO_L23N_VRP_12   | IO_L26P_12       | AK3  |
| AE7  | IO_L24P_CC_LC_12 | IO_L25N_CC_LC_12 | AB10 |
| AD7  | IO_L24N_CC_LC_12 | IO_L25P_CC_LC_12 | AC10 |
| AB6  | IO_L1P_12        | IO_L16N_12       | AG1  |
| AB5  | IO_L1N_12        | IO_L16P_12       | AG2  |
| AC3  | IO_L2P_12        | IO_L15N_12       | AH2  |
| AC2  | IO_L2N_12        | IO_L15P_12       | AH3  |
| Y11  | IO_L3P_12        | IO_L14N_12       | AD4  |
| AA11 | IO_L3N_12        | IO_L14P_12       | AE4  |
| AD2  | IO_L4P_12        | IO_L13N_12       | AA15 |
| AD1  | IO_L4N_VREF_12   | IO_L13P_12       | Y16  |
| Y14  | IO_L5P_12        | IO_L12N_VREF_12  | AB8  |
| AA13 | IO_L5N_12        | IO_L12P_12       | AC7  |
| AC5  | IO_L6P_12        | IO_L11N_12       | AD5  |
| AC4  | IO_L6N_12        | IO_L11P_12       | AD6  |
| AF1  | IO_L7P_12        | IO_L10N_12       | AE2  |
| AE1  | IO_L7N_12        | IO_L10P_12       | AE3  |
| AA9  | IO_L8P_CC_LC_12  | IO_L9N_CC_LC_12  | Y12  |
| AA8  | IO_L8N_CC_LC_12  | IO_L9P_CC_LC_12  | Y13  |

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## 11. GND 1

| U?K  |     |     |      |
|------|-----|-----|------|
| B1   |     |     | AL17 |
| C1   | GND | GND | AA17 |
| N1   | GND | GND | L17  |
| AC1  | GND | GND | AP16 |
| AN1  | GND | GND | AH16 |
| F2   | GND | GND | V16  |
| T2   | GND | GND | P16  |
| AF2  | GND | GND | H16  |
| AP2  | GND | GND | AE15 |
| J3   | GND | GND | W15  |
| W3   | GND | GND | R15  |
| AJ3  | GND | GND | E15  |
| B4   | GND | GND | AM14 |
| M4   | GND | GND | AD14 |
| AB4  | GND | GND | AB14 |
| AM4  | GND | GND | T14  |
| E5   | GND | GND | M14  |
| R5   | GND | GND | B14  |
| AE5  | GND | GND | AJ13 |
| H6   | GND | GND | AE13 |
| V6   | GND | GND | AC13 |
| AH6  | GND | GND | W13  |
| A7   | GND | GND | R13  |
| L7   | GND | GND | L13  |
| AA7  | GND | GND | J13  |
| AL7  | GND | GND | AF12 |
| D8   | GND | GND | AD12 |
| P8   | GND | GND | T12  |
| AD8  | GND | GND | M12  |
| AP8  | GND | GND | K12  |
| G9   | GND | GND | F12  |
| U9   | GND | GND | AN11 |
| AG9  | GND | GND | AC11 |
| K10  | GND | GND | N11  |
| Y10  | GND | GND | L11  |
| AK10 | GND | GND | C11  |
|      | GND | GND |      |

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## 12. GND 2

| U?L  |     |      |
|------|-----|------|
| D18  | GND | AN34 |
| P18  | GND | AM34 |
| AD18 | GND | AB34 |
| A19  | GND | M34  |
| G19  | GND | B34  |
| U19  | GND | AJ33 |
| AA19 | GND | WV33 |
| AG19 | GND | J33  |
| K20  | GND | A33  |
| T20  | GND | AF32 |
| Y20  | GND | T32  |
| AB20 | GND | F32  |
| AK20 | GND | AN31 |
| C21  | GND | AC31 |
| L21  | GND | N31  |
| N21  | GND | C31  |
| AC21 | GND | AK30 |
| AN21 | GND | Y30  |
| F22  | GND | K30  |
| K22  | GND | AG29 |
| M22  | GND | U29  |
| T22  | GND | G29  |
| Y22  | GND | AP28 |
| AD22 | GND | AD28 |
| AF22 | GND | P28  |
| J23  | GND | D28  |
| L23  | GND | AL27 |
| W23  | GND | AA27 |
| AC23 | GND | L27  |
| AE23 | GND | A27  |
| AJ23 | GND | AH26 |
| B24  | GND | V26  |
| M24  | GND | H26  |
| AB24 | GND | AE25 |
| AD24 | GND | R25  |
| AM24 | GND | E25  |

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### 14. Power 2

| U?N   |        |         |       |
|-------|--------|---------|-------|
| U14   | VCCO_0 | VCCO_12 | Y15   |
| T17   | VCCO_0 | VCCO_12 | AA12  |
| W18   | VCCO_0 | VCCO_12 | AB9   |
| V21   | VCCO_0 | VCCO_12 | AF7   |
| G14   | VCCO_0 | VCCO_12 | AC6   |
| K15   | VCCO_1 | VCCO_12 | AG4   |
| C16   | VCCO_1 | VCCO_12 | AD3   |
| N16   | VCCO_1 | VCCO_12 | AL2   |
| B19   | VCCO_1 | VCCO_12 | AH1   |
| M19   | VCCO_1 | VCCO_12 | AG34  |
| E 20  | VCCO_1 | VCCO_11 | AD33  |
| H21   | VCCO_1 | VCCO_11 | AL32  |
| AG14  | VCCO_1 | VCCO_11 | AH31  |
| AK15  | VCCO_2 | VCCO_11 | AE 30 |
| AC16  | VCCO_2 | VCCO_11 | AB29  |
| AN16  | VCCO_2 | VCCO_11 | AC26  |
| AB19  | VCCO_2 | VCCO_11 | Y25   |
| AM19  | VCCO_2 | VCCO_11 | AA22  |
| AE 20 | VCCO_2 | VCCO_11 | P 13  |
| AH21  | VCCO_2 | VCCO_10 | R10   |
| F17   | VCCO_2 | VCCO_10 | M9    |
| J18   | VCCO_3 | VCCO_10 | N6    |
| AF17  | VCCO_3 | VCCO_10 | K5    |
| AJ18  | VCCO_4 | VCCO_10 | G4    |
| A22   | VCCO_4 | VCCO_10 | D3    |
| D23   | VCCO_5 | VCCO_10 | L2    |
| G24   | VCCO_5 | VCCO_10 | H1    |
| K25   | VCCO_5 | VCCO_10 | G34   |
| C26   | VCCO_5 | VCCO_9  | D33   |
| F27   | VCCO_5 | VCCO_9  | L32   |
| B29   | VCCO_5 | VCCO_9  | H31   |
| E 30  | VCCO_5 | VCCO_9  | M29   |
| A32   | VCCO_5 | VCCO_9  | J28   |
| A2    | VCCO_5 | VCCO_9  | N26   |
| C6    | VCCO_6 | VCCO_9  | P 23  |
| F7    | VCCO_6 | VCCO_9  | R20   |
| J8    | VCCO_6 | VCCO_9  | AP 13 |
| B9    | VCCO_6 | VCCO_8  | AL12  |
| E 10  | VCCO_6 | VCCO_8  | AH11  |
| H11   | VCCO_6 | VCCO_8  | AE 10 |
| A12   | VCCO_6 | VCCO_8  | AM9   |
| D13   | VCCO_6 | VCCO_8  | AJ8   |
| AL22  | VCCO_6 | VCCO_8  | AN6   |
| AP 23 | VCCO_7 | VCCO_8  | AK5   |
| AG24  | VCCO_7 | VCCO_8  | AP 3  |
| AK25  | VCCO_7 | VCCO_8  | AP 33 |
| AN26  | VCCO_7 | VCCO_7  | AM29  |
| AF27  | VCCO_7 | VCCO_7  | AJ28  |
|       | VCCO_7 | VCCO_7  |       |

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### 15. Revision History

|   | Revision | Date         | By | Comments        |
|---|----------|--------------|----|-----------------|
| 1 | 1.01     | Jan 31, 2007 | MD | Initial Release |