

Models LR-PLUS3 and LR-PLUS3-S Inner Plane Connection Chart

79	GND	GND	80
77			78
75			76
73			74
71	GND	GND	72
69			70
67			68
65			66
63			64
61	GND	GND	62
59			60
57			58
55			56
53			54
51	GND	GND	52
49			50
47			48
45			46
43			44
41	3.3V	3.3V	42
39			40
37			38
35			36
33			34
31	GND	GND	32
29			30
27			28
25			26
23			24
21	5V	5V	22
19			20
17			18
15			16
13			14
11	GND	GND	12
9			10
7			8
5			6
3			4
1	5V	5V	2

**Memory
Connector**

79	GND	GND	80
77	GND		78
75		GND	76
73			74
71			72
69			70
67			68
65			66
63			64
61	GND	GND	62
59			60
57			58
55			56
53			54
51	GND	GND	52
49			50
47			48
45			46
43	GND	GND	44
41			42
39			40
37	GND	GND	38
35			36
33			34
31	GND	GND	32
29			30
27			28
25	GND	GND	26
23			24
21			22
19	3.3V	3.3V	20
17			18
15			16
13			14
11			12
9	5V	5V	10
7	GND	GND	8
5	5V	5V	6
3	GND	GND	4
1	+12V	-12V	2

**Peripheral
Connector**

79			80
77			78
75			76
73			74
71			72
69			70
67			68
65			66
63			64
61			62
59			60
57			58
55			56
53			54
51			52
49			50
47			48
45			46
43			44
41			42
39			40
37			38
35			36
33			34
31			32
29			30
27			28
25			26
23			24
21			22
19			20
17			18
15			16
13			14
11			12
9			10
7			8
5			6
3			4
1			2

**Host Port
Connector**

Notes:

1) The Model LR-PLUS3 is a 6-layer printed circuit board. In addition to the 2 outer layers, there are 4 internal layers (layers 2-5). These layers are connected to the power and ground signals in the following way:

- Layer 2: Ground
- Layer 3: +3.3 Volts
- Layer 4: +5 Volts
- Layer 5: Split between +12 and -12 Volts

2) For reasons of compatibility with other DSKs and EVMs, none of the 80 pins on the Host Port Connector of the model LR-PLUS3 are tied to any internal plane. However, all 80 pins are brought out to pads, and are easily accessible for prototyping access.

3) The +12 and -12 voltages, which appear on pins 1 and 2 of the Peripheral Connector are each tied to a row of pads along the top and bottom of the board, respectively. The board silkscreen labeling shows this. +12 and -12 volts are normally not present on the DSK or EVM, and therefore, will not appear on the prototype board. If these voltages are required, a special power supply is required, and should be plugged into the 4-pin Molex connector present on the DSK/EVM provided for this purpose.