

APPLICATION NOTE

This application note describes how to power the VSBC-6 Single Board Computer through the PC/104-Plus Bus in lieu of using the EBX Main Power Connector (J4).

Power Connections

When powering the VSBC-6 through the PC/104-Plus stack, **all** power pins on the ISA connector must be used to conduct supply current to the board stack. The VSBC-6 only requires GND and +5V for proper operation.

If PC/104 and/or PC/104-Plus add-on modules are used which require additional voltages (i.e., +12V, -12V, +3.3V, and/or -5V), these voltages must be supplied by the power supply on the appropriate pins.

Note: It is not necessary to connect the power supply lines to the PCI connector unless you plan to use a PC/104-Plus module that requires +3.3V. An alternate connection point is through connector J1 on the VSBC-6.

If the PC/104 power supply module provides power output on an external connector, it is recommended that #18 wire be connected between the external connector and the Main Power Input connector (J4) on the VSBC-6

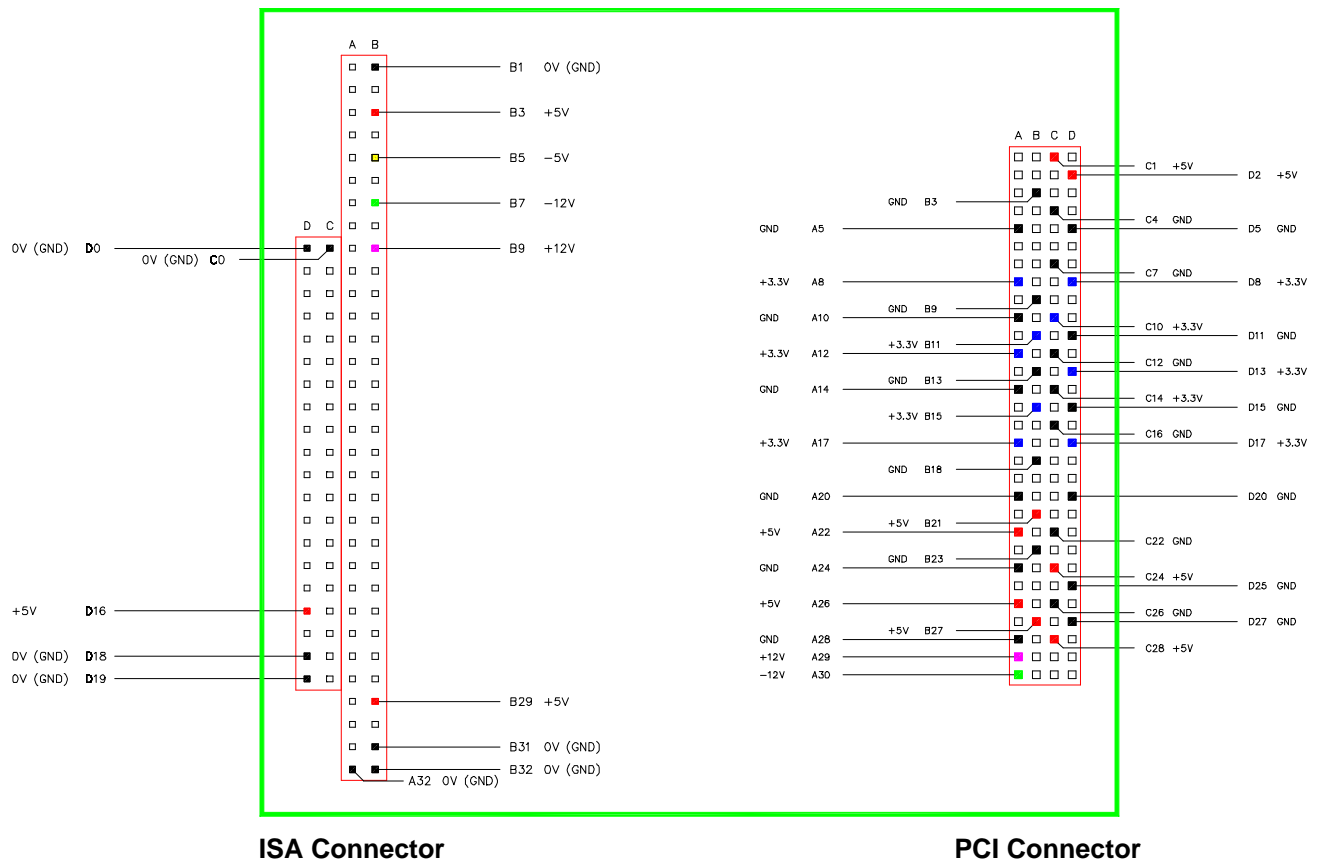


Figure 1. PC/104-Plus Power Signals

Module Placement

Normally the PC/104 power supply is bolted directly on top of the VSBC-6, however, additional PC/104 boards can be added on top of the power supply if desired.

If **PC/104-Plus** modules need to be added, they must be placed between the power supply and the VSBC-6 as shown below.

Note: Always place the power supply unit as close to the VSBC-6 as possible.

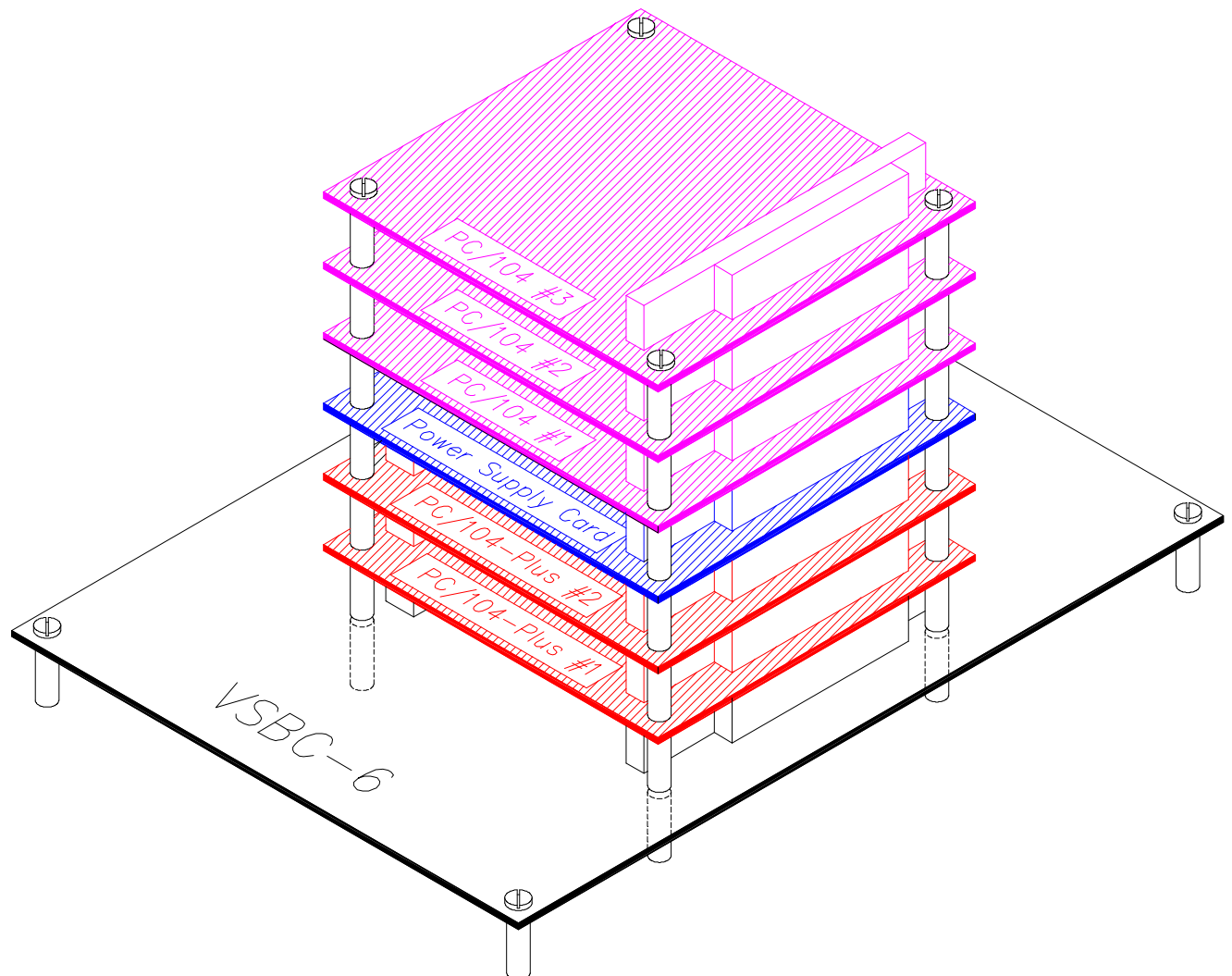


Figure 2. Module Placement