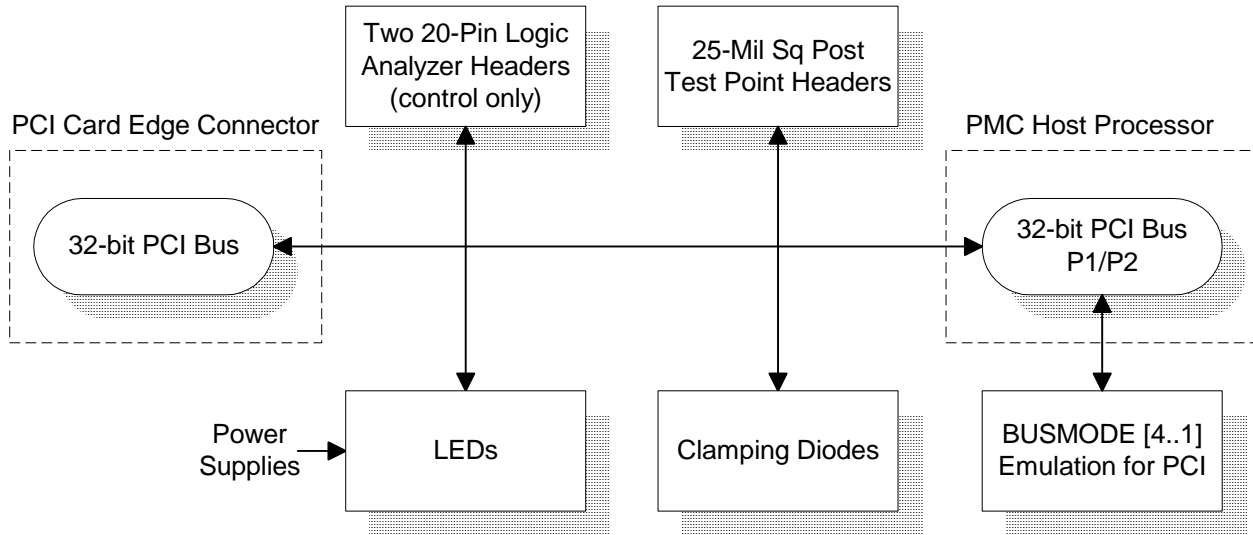


PCI to PMC Adapter



The Technobox PCI to PMC Adapter permits operation of a standard 32-bit PCI card in a PMC slot. It provides a migration path for standard PCI board suppliers to port their products to a PMC form factor. As the PMC equivalent board is developed, software development/migration can proceed with the original PCI board operating in a PMC environment. Also, developers can evaluate product performance in a PMC environment before committing to a PMC conversion effort.

Another use of this product is adaptation of PCI-based hardware emulators to a PMC environment. Also, PMC host processor manufacturers can use the adapter to test their products using an off-the-shelf PCI board.

As illustrated in the printed circuit design, the standard edge-finger style PCI connector is situated parallel to the long axis of the PMC card, so PCI cards plug in perpendicularly to the PMC card.

The position of the PCI connector permits a standard short-length PCI board to be installed without interfering with a VMEbus backplane or board front panel. Because a short-length PCI board is 174 mm long, the PCI board bracket will be approximately 30 mm forward of the host processor front panel.

There is no mechanical support for the PCI board, except the frictional support provided by the PCI edge-finger connector. This force is substantial enough to allow operation of a PCI board without additional me-

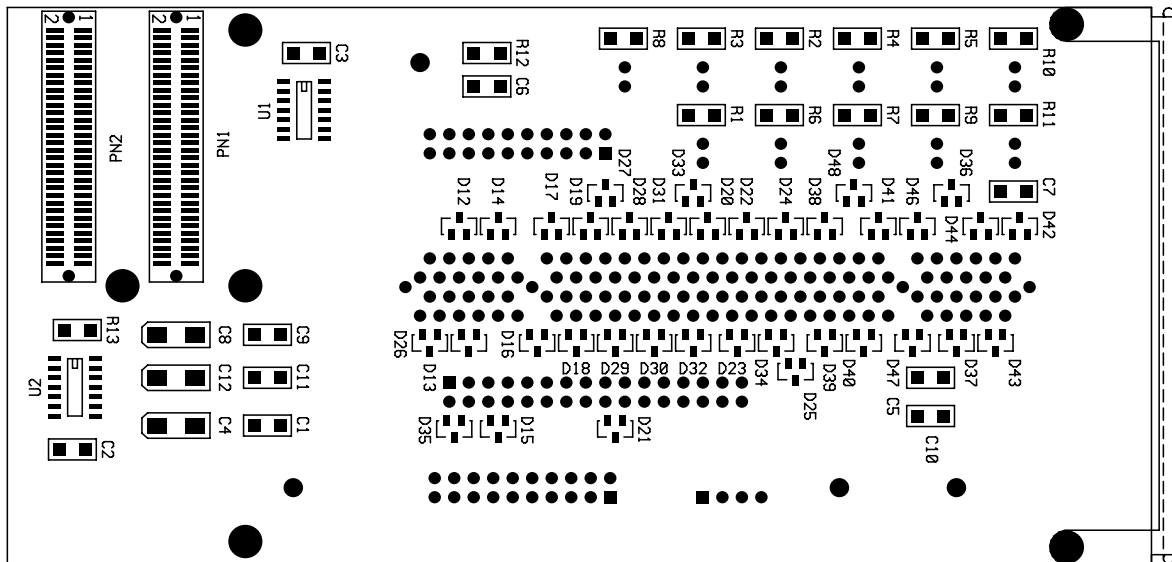
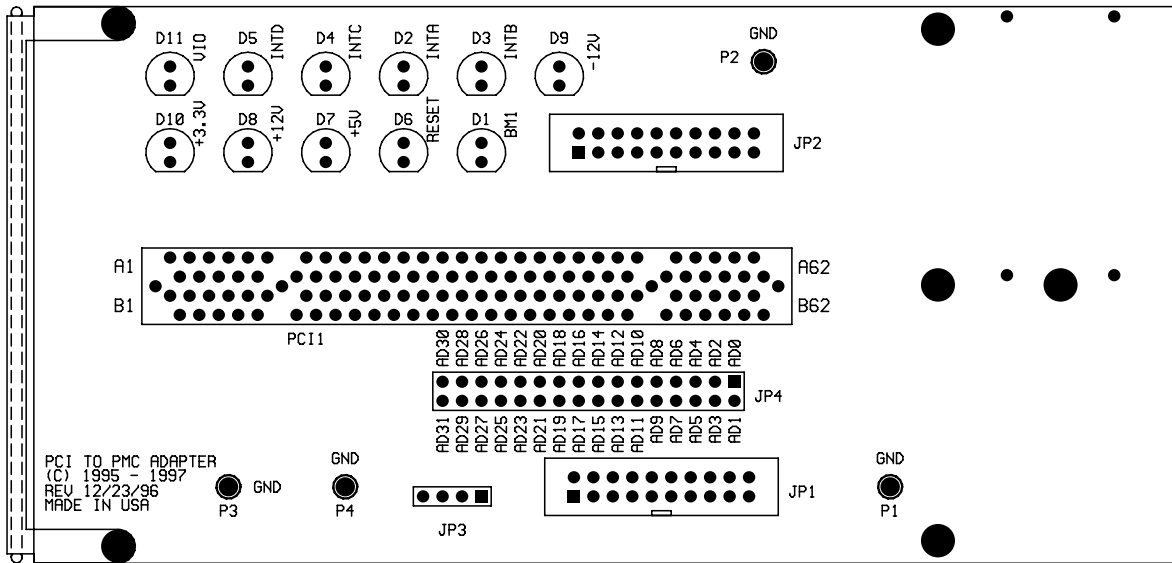
chanical constraints or support. However, due to the lack of rigid mechanical support, this product should be used only in an engineering lab setting.

High speed Schottky diodes clamp all PCI signals to ground near the PCI connector. This practice minimizes signal undershoot and other transmission line effects.

Logic analyzer access to the key PCI control signals is provided by two 20-pin termination adapter compatible header connectors. Also, a 25-mil square post header provides access to the PCI AD[31..0] signals. LEDs monitor power supplies and key signals from the PCI bus. Finally, turret-style test points connected to signal ground facilitate oscilloscope probe grounding.

The product is available in two versions, each supporting unique PCI signaling levels of 5V and 3.3V, respectively. Both adapters are identical, except the PCI is rotated 180 degrees in order to position the PCI connector key properly for the PCI bus signaling environment. Please specify 5V or 3.3V keying when ordering.

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Product Summary

Technobox Part Number:	1505
Typical Power Dissipation:	N/A
Power Supplies Required:	Per installed PCI board
PCI Signaling Environment:	5 Volt or 3.3 Volt (Specify when ordering)