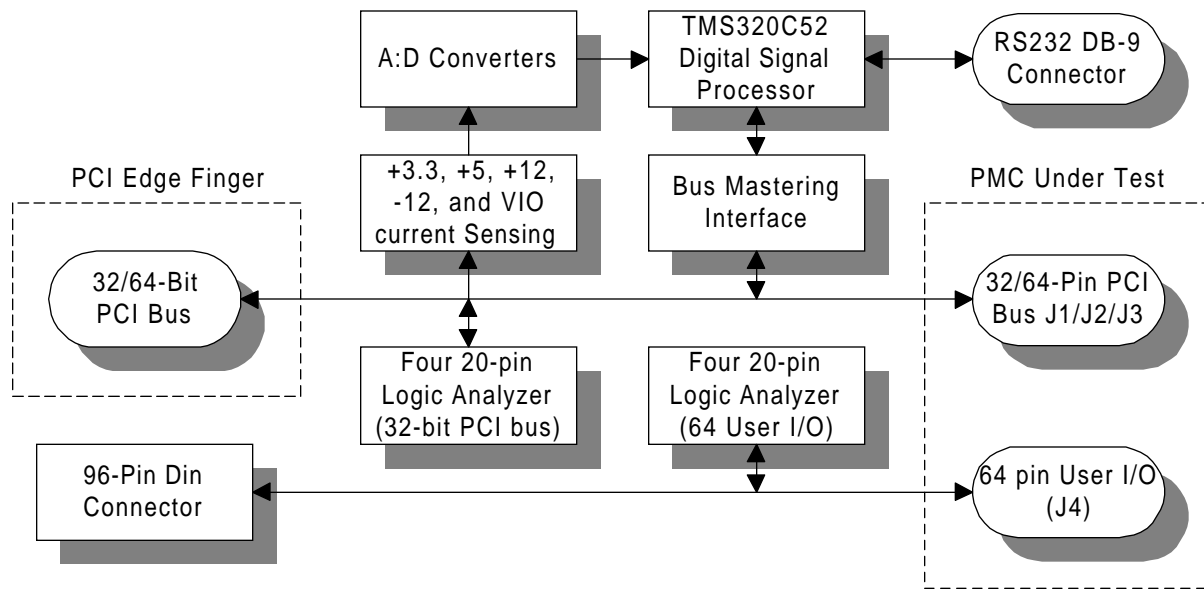


# Advanced PMC to PCI Adapter - for Development



The Advanced PMC to PCI adapter is an engineering tool which permits development of a PMC card in a standard Personal Computer PCI slot.

The product features full logic analyzer access to the 32-bit PCI bus — both control signals and data/address bus — using four 20-pin headers (JP50, JP51, JP52, JP53) which are compatible with Hewlett Packard analyzers using 20-to-40 pin Termination Adapters.

Logic Analyzer access is also provided for the 64 “user I/O” signals on JN4/PN4 of the PMC under test. Four 20-pin headers (JP10, JP11, JP12, JP13) break out the 64 signals into four groups of 16 signals.

Current sensing for all key power supplies to the PMC under test is provided. Separate sensing for +3.3V, +5V, +12V, -12V and VIO is supported. An on-board A:D converter, together with a TMS320C52, collect and present the resulting information over an RS232 interface connected to a dumb terminal program on a Personal Computer. The user may monitor power supply current over the course of a selected sample size, and minimum, maximum, standard deviation, and average current consumption is calculated and displayed on the screen.

A bus mastering interface permits the user to access the PCI configuration space of the PMC under test, as well as mastering single-word transfers over the PCI bus. This circuit also captures the last valid PCI bus cycle. Upon command from the user, the current static state of the PCI bus is displayed, which is helpful for detecting bus “stuck” conditions.

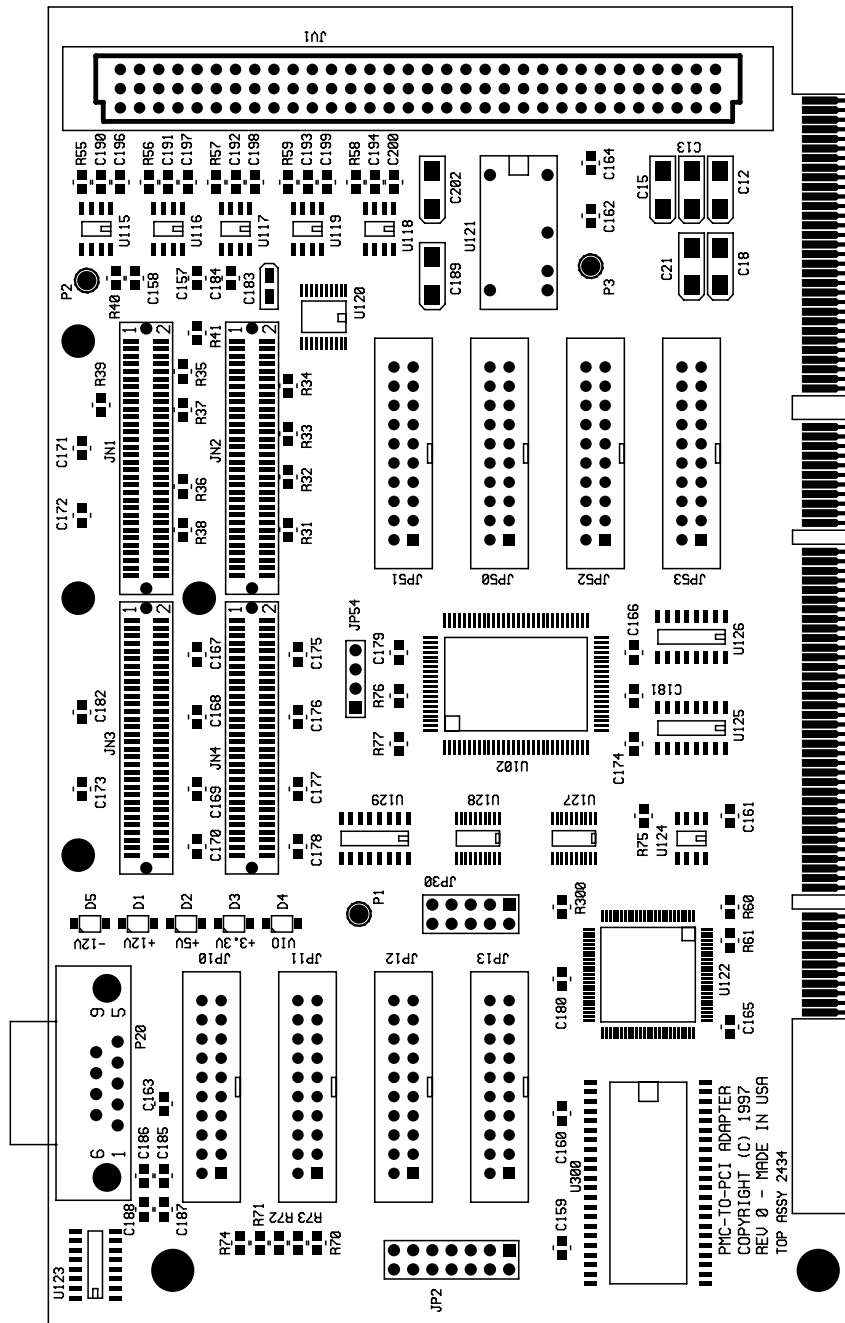
A 96-pin DIN connector along the back edge of the board brings out the 64 user I/O signals from the JN4/PN4 connector on the PMC module. The pin out mimics the connection defined between the PMC and the P2 connector “a” and “c” rows in a VMEbus application.

The product supports the 64-bit PCI bus connections, with logic analyzer and bus-mastering operating in 32-bit PCI bus mode only.

Five LEDs provide a visual indication of +3.3V, +5V, +12V, -12V, and VIO power being supplied to the PMC under test.

The on-board Digital Signal Processor (TMS320C52) comes loaded with firmware operating a user-friendly “monitor” program. The monitor is accessed via an RS232 cable connected to a dumb terminal or personal computer equipped with standard dumb terminal communication software.

# Advanced PMC to PCI adapter - for Development



## Product Summary

Technobox Part Number:	2434
Typical Power Dissipation:	N/A
Power Supplies Required:	+5 and per PMC requirements
PCI Signaling Environment:	3.3 Volt, 5 Volt