Model PCIAX532 & PCIAX332

PCI Active Extender Card



FEATURES

- *5VDC and 3.3VDC Versions*
- *Provides Hot Swapping of UUT*
- *Extends Test System Life*
- *May be Controlled via a Parallel Port or Manually*

DESCRIPTION

These active extender cards allow Hot Swapping or Live Insertion of the Unit-Under-Test (UUT) into the PCI bus. The Hot Swapping feature of these extenders eliminates the need for turning the PC on and off and repeated rebooting. This feature speeds up rework, characterization and test of the UUT in the development phase as well as production test. The elimination of the repeated power cycling also helps prolong the system life and the hard disk operation. These active extenders use a new CMOS technology for switching the signals on and off known as Quick Switch. These switches have a very fast propagation delay, typically about 250 picoseconds, resulting in no timing degradation between the bus and the UUT. The switches are also bi-directional allowing the entire range to be supported for both target and master type operation.

The PCIAX cards isolate all signals and voltages to the UUT, when the On/Off switch is in the Off position. All voltages are ramped down and ramped up during power down and power up in order to eliminate any spikes. During power down, the signals to the bus become isolated as soon as the main supply, +5VDC, drops down to +3.0VDC. During power up, the signals remain isolated until the main voltage is at least +3.0VDC. An on-board current-to-voltage converter allows measurement of the current drawn by the UUT at any time, using just a voltmeter at the appropriate test points.

SPECIFICATIONS

Bus

PCIAX532: 32-bit PCI, 5VDC key and universal
PCIAX332: 32-bit PCI, 3VDC key and universal

Input Requirement

+5VDC @ 200mA
±12VDC @ 50mA

Inputs

From PC bus or external input, configurable by jumpers per voltage

Output Ratings

+5VDC, Jumper selectable to 5A or 1A limit
+3.3VDC @ 2.5A
+VIO @ 1A
±12VDC @ 1A

Drop Across the Switches

40mV drop for every 1A drawn for +5V, +3.3V, and +VIO
30mV drop for every 1A drawn from the -12V
30mV drop for every 100mA drawn for +12V

Propagation Delay

Less than 500 pico-seconds from the PC bus to the UUT. The switch propagation delay is only 250 pico-seconds

On/Off Controls

SPST switch on-board, or system parallel port.

Size

6.8in x 4.5in (172.7mm x 114.3mm)

ORDERING GUIDE

Model PCIAX532

5VDC version, manual, software, parallel interface, cable

Model PCIAX332

3.3VDC version, manual, software, parallel interface, cable

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