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HIGHLAND TECHNOLOGY

V124 VXI PCI Express Crate Controller

Features

- PC memory-mapped VXI Crate Controller in 6U C-size format
- Cabled PCIe connects to PC over up to 7 meter PCI Express cable
- Provides 8192 16kB VME mapping pages; individual page descriptors support address mapping/modifiers, speed options, dynamic endian swapping
- Includes concurrent Ethernet and USB ports
- Diagnostics: power supply, temperature, and air flow monitors
  Reads back DTACK speed, address/data, and errors for any transaction
  Front panel LEDs and bus signal scope monitors are provided
- Optional DMA and VXIbus extension support
- No proprietary VME chips: designed for long-term availability
- Clean, simple architecture: no jumpers and no setup needed for basic VME I/O



The V124 is a VXI bus master crate controller, usable as a crate slot 0 arbiter or as a secondary controller. Each PCI Express cable driver board, in a PC backplane, can drive one to four V124s over standard, flexible PCI Express cable assemblies up to 7 meters long.

VME module registers are directly mapped into PC address space. The V124 provides 8192 page mapping registers, each controlling a 16 kbyte PC-to-VME translation page with flexible timing and endian controls. The default powerup mapping allows immediate access to the A16, A24, and partial A32 VME address spaces.

Ethernet and USB ports are included. Status LEDs and scope monitors expose bus operation and timing. Bus cycle analysis, power supply, temperature, and air flow monitoring are standard.

18 Otis Street San Francisco, CA www.HighlandTechnology.com tel: 415 551-1700 fax: 415 551-5129

Specifications : V124 VXI PCI Express Crate Controller

FUNCTION	VXI crate controller
DEVICE TYPE	VME master: A32: A24: A16: D08: D16: D32 VME system controller: BTO(64), IH(1-7) Optional VME64
OPERATING TEMPERATURE	0 to 60°C; extended MIL/COTS ranges available
POWER	Standard VXI supplies: + 5 V, 2 A max +12 V, 50 mA max -12 V, 50 mA max
CONNECTORS	VXI64 P1/P2 Four front-panel SMB test connectors One front-panel SMB CLOCK connector One PCI Express 4 lane connector One type B USB connector One RJ45 100 MHz Ethernet connector
INDICATORS	LEDs indicate VME access, CPU activity, error conditions; additional LED is user programmable 7-segment display indicates unit number
PACKAGING	6U C-size VXI module
CONFORMANCE	ANSI/VITA 1-1994 (R2002) VMEbus spec VXI-1 4.0 PCI Express Base Specification 1.1, Gen1 PCI Express External Cabling Specification 1.0



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