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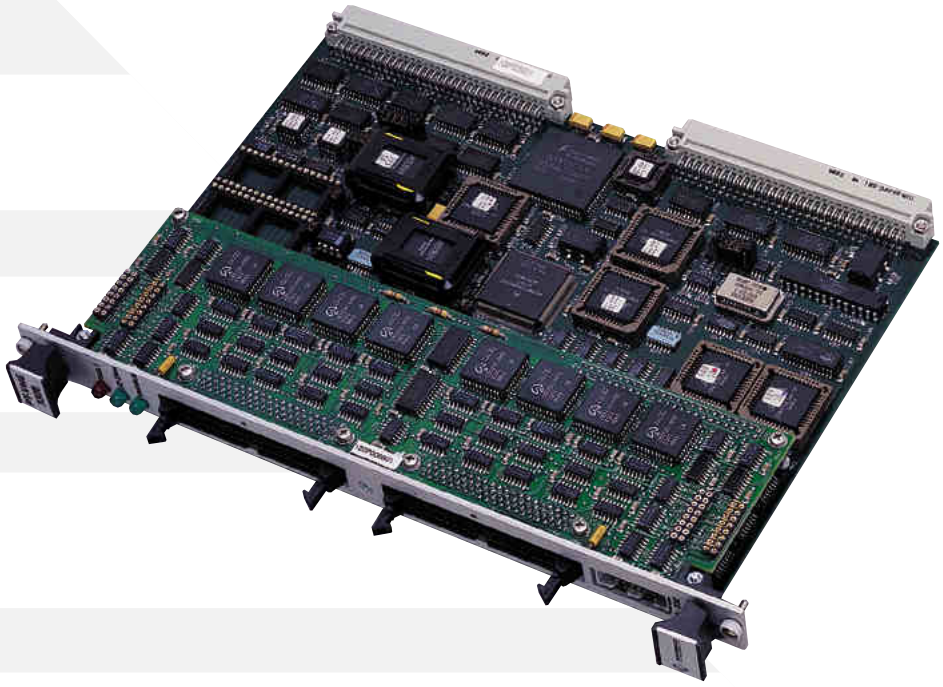
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PT-VME330B
16 Port High Density/Low Cost VME Communications Controller

Features
-Benefits

- Sixteen Channel High Speed Intelligent Communications Controller
  Offloads communications functions from the Host, means higher overall system performance
- Based on Motorola's MC68EC030
  11.7 MIPs of processing power means high-speed performance with minimal system utilization
- 4 or 8 Mbytes of dedicated DRAM Memory
  Large memory buffer ensures the handling of heavy real time traffic without data loss or compromising system performance
- Serial Adapter Modules (SAMs) Support a Wide Range of Interfaces
  Regardless of electrical interface needs, PTI can supply a solution
- Front Panel SIO Connections to Passive Break-Out Panels
  PTI offers a complete solution with floor and rack mounted options that feature industry standard line interfaces
- VME Bus Master A32:D32 (BLT) with Block Transfer Support
  Ensures the best system utilization
- 32 Channel DMA Controller with Aggregate bandwidth of 4.4 Mbits/sec
  Data moves between the SCCs and DRAM buffer very quickly
- Broad Range of Communications Protocol Software Packages
  PTI and third parties offer a range of protocols including X.25, HDLC, SCLC, DDCMP, CD-2, etc.
- Software Compatible with PTI's Earlier VME WAN products
  Means very easy protocol ports to this new platform



Performance Technologies' VME330B Intelligent Communications Controller for the VMEbus is our newest WAN product, offering a very cost effective, high density serial communications interface. A fourth generation product, it builds on PTI's ten years experience and expertise providing communications solutions for the WAN market.

Designed as a fully programmable communications sub-system, it is capable of sustaining the high speed data rates used with a variety of protocols in synchronous and asynchronous data communications.

Unlike other controllers, the onboard intelligence and large DRAM array of the PT-VME330B allow it to handle most of the low level communications activities that would typically burden the host. This can greatly enhance overall system performance. The DRAM also allows the downloading of protocols for stand-alone code execution directly on the PT-VME330B.

Operating under real-world protocol overheads, it can sustain concurrent throughput of over 137 Kbps full-duplex on each of its 16 channels and over 1.8 Mbits/sec using a single channel.

The PT-VME330B capitalizes on the intelligence of the Motorola 68EC030 and up to eight dual channel 85230 synchronous comm controllers (SCCs). These are coupled to PTI's proprietary 32-channel DMA controller in a highly optimized fashion to ensure high-speed data movement between the SCCs and the DRAM data buffer.

The high bandwidth local memory of the PT-VME330B provides the deterministic element necessary to allow both SIO Xmit and Receive operations to continue on all ports without loss of data, even during sustained and prolonged VMEbus accesses.

The VME330B also features PTI's VSI (VME Slave Interface) ASIC which incorporates a number of unique advantages while providing a high performance interface in full compliance with the VMEbus Specification C.1.

The PT-VME330B includes support for addressing 4 GBytes of memory and 32 bit data transfers. The VMEbus interface also supports Block Mode (BLT) operation. This is especially effective for moving large contiguous blocks of information while minimizing bus control overhead.

PERFORMANCE TECHNOLOGIES, INC

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PT-VME330B Communications Controller

Specifications

Performance	*16 Ports @ 137 Kps bi-directional, simultaneously* *1.8 Mbps maximum line speed*
Processor	*32 MHz Motorola 68EC030*
VME Bus Interface	A32/A24:D32/D16, BLT Unaligned Transfers
DMA Bandwidth	*> 4.4 Mbits/sec Aggregate*
Memory	*4 or 8 Mbytes of Dedicated DRAM*
Compliance	*VMEbus Specification C.1*
Certifications	*UL1950, CSA 22.2*
MTBF	*> 200,000 power on hours (POH)*
Power	*31 watts max. (6 A @ +5 V, 15mA @ +/- 12 V)*
Dimensions	*234mm x 160mm x 20.3mm (single slot VME 6U)*
Temperature	*Operating: 0˚ to 55˚ C* *Non-operating: -20˚ to 85˚ C*

Ordering Information

PT-VME330B-10726	**4MB SIO Controller**
PT-VME330B-10727	**8MB SIO Controller**
PT-SAM R-10728	**16 x RS-232 Adapter**
PT-SAM S-10729	**8 x RS-232 Adapter**
PT-SAM T-10730	**16 x RS-422 Adapter**
PT-VME800-10731	**PTBUG Monitor/ Debugger**

Software Configurable

The PT-VME330B has been carefully designed to eliminate the profusion of option jumpers and switches typically found on most VMEbus boards. Using the highly programmable PT-VSI VMEbus Interface ASIC, coupled with innovative design and EEPROM technology, the PT-VME330B is configured through an interactive software menu. User defined options such as Slave Address, Address Modifiers, Bus Request Level, Mode and Interrupt Request Level are selected via a terminal session, by making a connection to the module's front panel RS-232C utility port.

Communication Software

A wide variety of communication software has been ported to the VME330B. The protocols supported by the module include: HDLC, HDLC LAPB, HDLC NRM, SDLC, X.25, DDCMP, ADCCP, Telekurs Data Feed Receiver, Reuters MarketFeed 2000, BSC 3270 and CD-2. Contact PTI for further information on availability of these protocols and others currently under development.

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