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Xycom, Inc.

Xycom VMEbus Products

One of the most significant advances in high-performance computer technology occurred in 1987 when Xycom pioneered the "marriage" between the increasingly popular PC/AT architecture and an established, industry-standard bus structure-- the VMEbus. This "marriage" provided the ultimate combination of the rugged, high-performance VMEbus with the full complement of readily-available, easy-to-use software tools, which could be run on PC/AT computers.



Today, Xycom is still the market leader in the development of VMEbus PC/AT technology with a full offering of processors, support hardware and software, and the highest level of manufacturing quality and after-sale technical support available anywhere. Employing the latest in microprocessor and chip-set technology, the most recent members of the Xycom family of VMEbus PC/AT products can be used in the most demanding applications with the most popular operating systems and, best of all, with powerful off-the-shelf application software that makes programming much easier.

Xycom's hardened industrial VMEbus products include:

- Processor Modules
- Memory Modules
- Digital I/O Modules
- Analog I/O Modules
- Communication Modules
- Support Modules
- System Products
- VMEbus Software

Xycom is a member of VITA, the VMEbus International Trade Association.

Processor Modules

XVME-601 10 MHz 68000/68010 Processor
Provides 512 Kbytes of DRAM, up to 128 Kbytes of EPROM, and two RS-232C ports. Form Factor: 3U (Single)

XVME-630 Low-Cost Processor Module
With a 25 MHz 68EC030 CPU and twelve 32-pin memory sites, which accept different combinations of EPROM, static RAM or Flash memory. On-board time-of-day clock and battery, two serial ports, math coprocessor site and on-board interrupter.

XVME-654 PC/AT-Compatible Processor Module
This module integrates a 133 MHz AMD® Am5x86™ processor with a PCI-to-VMEbus interface, to offer the latest in high-performance VMEbus technology. The CPU features 16 Kbyte on-board, write-back cache, to support 4, 8, 16, or 32 Mbytes of EDO DRAM.

The PCI bus video controller features a 64-bit graphics engine, true color support, and supports resolutions up to 1024 x 768 with 256 colors. The video controller also offers hardware-assisted enhanced video playback for Indeo, Cinepak and MPEG-1 formats. IDE hard drive and floppy drive capabilities are available by connecting the XVME-977 single-slot VMEbus mass-storage module.

The XVME-654 also contains a full four-level VMEbus arbiter, VMEbus interrupter, and interrupt handler, two 16550 RS-232C-compatible serial ports, a Centronics-compatible parallel port, a six-pin mini-DIN keyboard port, a battery-backed real-time clock, and system BIOS. For networking applications, the XVME-654 provides an on-board 32-bit bus-mastering PCI Ethernet controller that is software-compatible with NE2100 and NE1500 controllers. 10BaseT and 10Base2 interfaces are available on the module's front panel. Form Factor: 6U (Double)

XVME-655 Single-Board VMEbus Pentium® PC/AT Computer
Available with a 200 or 233 MHz Pentium processor, featuring MMX™ technology. Includes a SVGA video controller, EIDE controller, and space for an optional Ethernet controller on a single 6U VMEbus module. Also includes two buffered serial ports, an ECP/EPP compatible parallel port, keyboard port, floppy disk controller and support for up to 64 Mbytes of EDO DRAM. Form Factor: 6U (Double)

XVME-675 Single-Board VMEbus PC/AT Computer
100 MHz 80486DX4 CPU with 4, 16, or 32 Mbytes of dual-access DRAM, a 32-bit VMEbus interface with programmable byte-swapping, SVGA controller with 1 Mbyte of video memory, floppy and IDE hard drive controllers, two serial and one parallel port, PS/2-compatible mouse and keyboard ports and a PC/104 expansion port,all integrated into a single VMEbus slot. Form Factor: 6U (Double)

Support Modules

XVME-955 IDE Mass Storage Subsystem
Designed for use with Xycom VMEbus PC/AT processors, incorporating an IDE hard disk controller. Contains an IDE hard disk and a 1.44 Mbyte 3.5" floppy disk. Form Factor: 6U (Double)

XVME-956 PC/AT I/O Expansion Carrier
Allows the user to add additional PC/AT I/O functions, such as networking, solid state memory, serial I/O or a SCSI controller to Xycom's XVME-67*x*/1*x* and XVME-68*x*/1*x* PC/AT processor modules. The expansion carrier occupies a single VMEbus card slot and accepts two PC/104 open-architecture modules. Modules available from Xycom include:
- XVME-956/101 Memory Module
- XVME-956/400 Serial, Parallel Module
- XVME-956/402 AT-SCSI Host Adapter
- XVME-956/411 Ethernet Module

Form Factor: 6U (Double)

XVME-957 Mass Storage Sub-system
Provides a high-capacity IDE hard disk drive and a 1.44 Mbyte 3.5" floppy disk drive in a single VMEbus slot. Designed to be compatible with Xycom's VME PC/AT processors. Form Factor: 6U (Double)

XVME-976 PC/AT I/O Expansion Carrier

Allows easy connection of PCI Mezzanine Cards and PC/104 cards to a XVME-654 or a XVME-655 VMEbus processor board. The expansion carrier occupies a single VMEbus card slot and accepts either one PMC and one PC/104 open-architecture module (XVME-976/1) or two PC/104 modules (XVME-976/104). PC/104 modules available from Xycom include:
- XVME-956/101 Memory Module
- XVME-956/400 Serial, Parallel Module
- XVME-956/402 AT-SCSI Host Adapter
- XVME-956/411 Ethernet Module

Form Factor: 6U (Double)

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XVME-977 Hard Drive/Floppy Drive module
Provides an easy way to integrate both hard and floppy disk drives into a VMEbus system, while occupying only one double-high VMEbus slot. Carrying a 2.5" IDE hard drive and a 0.5" high 1.44 Mbyte 3.5" floppy drive, the module plugs easily into the VMEbus backplane, with the IDE hard drive and floppy drive signals routed through the P2 connector. It is ideally suited for use with Xycom's XVME-655 VMEbus PC/AT Processor module. Form Factor: 6U (Double)



XVME-978/2 Ethernet/SCSI Interface module
Combines 100 Mbit Ethernet and Fast and Wide SCSI on a single expansion module for Xycom's XVME-655 Pentium VMEbus processor family. The XVME-978/2 adds a 100 Mbit (100BaseTx) AMD® Ethernet controller, with a selectable 10 Mbit mode for less demanding applications. Transfer rates of up to 20 Mbytes/sec are possible with the Adaptec Fast and Wide SCSI controller, offering access to a multitude of fast peripherals, such as high speed drives and tape backup systems. Both devices are integrated on a single mezzanine card which plugs directly onto the CPU's PCI local bus. No carrier cards and no additional slots are required. For ease of integration a front panel connector is provided.

Software support is available for Windows NT, QNX®, and VxWorks®.

Memory Modules

XVME-103 RAM/ROM Memory Module
Has eight 32-pin memory sites that provide support for up to 8 Mbytes of EPROM, 4 Mbytes of SRAM, Flash or EEPROM. Also included is an on-board replaceable battery with power-down protection for SRAM backup. Form Factor: 3U (Single)

XVME-113 RAM/ROM Memory Module
Provides twenty-four 32-pin memory sites organized into two independent banks. Supports up to 24 Mbytes of EPROM, 12 Mbytes of SRAM. Form Factor: 6U (Double)

Digital I/O Modules

XVME-200 32-Channel Digital I/O Module
With four independent 8-bit TTL ports and two 24-bit timers. VMEbus interrupt capability. OPTO 22-compatible. Form Factor: 3U (Single)

XVME-201 48-Channel Digital I/O Module
With six independent 8-bit TTL ports and two 24-bit timers. OPTO 22-compatible. Form Factor: 3U (Single)

XVME-202 Controller Module for OPTO 22 PAMUX 4, 5, 6 I/O systems.
Addresses up to 16 PAMUX units. Form Factor: 3U (Single)

XVME-203 Counter Module
With 10 independent 16-bit counting channels, eight output channels. On-board quadrature detection circuitry. Form Factor: 3U (Single)

XVME-212 32-Channel Digital Input Module
With programmable scanner to detect change of state. Supports inputs from 5-50 VDC. 300 volts of optical isolation, input debounce circuitry, and isolated on-board 12 V supply. Form Factor: 6U (Double)

XVME-220 32-Channel Digital Output Module
Provides open collector outputs capable of sinking 100 mA at 30 VDC. 300 volts of optical isolation as well as reverse bias protection. Form Factor: 6U (Double)

XVME-230 Intelligent Counter Module
Provides a wide range of high-level counting functions. On-board 68000 CPU with firmware off-loads time-consuming counting functions from th host processor. Form Factor: 6U (Double)

XVME-240 80-Channel Digital I/O Module
With 80 TTL channels arranged in eight byte-wide ports. Each port has one interrupt input as well as one flag output. Form Factor: 6U (Double)

XVME-244 64-Channel Digital I/O Module
Features 32 inputs and 32 outputs, optically isolated to 300 V channel-to-channel and 1000 V channel-to-bus. The outputs are rated at 30 VDC and 400 mA. Input voltage ranges are 10-35 VDC.
Form Factor: 6U (Double)

XVME-260 Digital Relay Output Module
Provides 32 channels of relay output. Capable of switching loads up to 30 VDC, 1.0 A, 20 W. Switches AC loads of 48 VAC, 0.3 A, 33 VA. Software- readable outputs. Form Factor: 6U (Double)

XVME-290 32-Channel Digital I/O Module
Contains four independent 8-bit TTL ports and two 24-bit timers. VMEbus interrupt capability with the I/O routed to the VMEbus P2 connector. Form Factor: 6U (Double)

Analog I/O Modules

XVME-500 Analog Input Module
With 16 SE or 8 DI input channels, 12-bit resolution. Optional programmable gain and expansion to 32 SE or 16 DI inputs. Form Factor: 3U (Single)

XVME-505 Analog Output Module
With four 12-bit D/A channels. Each channel can be independently configured for voltage or current output. Form Factor: 3U (Single)

XVME-531 16-Channel Analog Output Module
Available with voltage or isolated voltage and current outputs. Each channel is independently configured and can be grouped with other channels for simultaneous output. Isolated version provides 500 V isolation from the VMEbus. Form Factor: 6U (Double)

XVME-540 Analog I/O Module
With 32 SE or 16 DI input channels and programmable gain and four analog output channels. Module performs 12-bit D/A and A/D conversions. Input or output signals may be voltage or current.
Form Factor: 6U (Double)

XVME-542 Analog I/O Module
With 64 SE or 32 DI input channels and 16-bit resolution. 100 KHz maximum sampling rate. Autoscanning mode simplifies multi-channel sampling. Also has 8 analog output channels with 12-bit resolution. Capable of voltage or current output. Can update outputs individually or simultaneously. Form Factor: 6U (Double)

XVME-560 Analog Input Module
With 64 SE or 32 DI input channels. Module performs 12-bit A/D conversions and has programmable gain. Form Factor: 6U (Double)

XVME-564 Analog Input Module
With 64 SE or 32 DI input channels and 16-bit resolution. 100 KHz maximum sampling rate. Autoscanning mode simplifies multi-channel sampling. 12 programmable gains and a programmable interrupt timer.
Form Factor: 6U (Double)

XVME-566 High-Performance Analog Input Module
With 100 KHz throughput, 32 SE or 16 DI inputs with 12-bit resolution. 64 Kbytes of dual- access sample RAM. Programmable gain values and sample sequence. Form Factor: 6U (Double)

XVME-590 6U Analog Input Module
With 16 SE or 8 DI input channels, 12-bit resolution. Optional programmable gain and expansion to 32 SE or 16 DI inputs. I/O routed to the VMEbus P2 connector. Form Factor: 6U (Double)

Communication Modules

XVME-401 Serial I/O Module
Provides four independent RS-422A/RS-485 serial channels. Uses two Z8530 serial chips capable of supporting asynchronous, byte-synchronous, and bit-oriented protocols. Form Factor: 3U (Single)

XVME-428 Intelligent Serial Communication Module

Provides eight asynchronous RS-232C channels at baud rates up to 19.2 Kbaud. On-board 68000 microprocessor and communication firmware. Form Factor: 6U (Double)

XVME-490 Serial I/O Module
Provides four independent RS-232C serial channels. Uses two Z8530 serial chips capable of supporting asynchronous, byte-synchronous, and bit-oriented protocols. I/O routed to the VMEbus P2 connector. Form Factor: 6U (Double)

XVME-491 Serial I/O Module
Provides four independent RS-422A/RS-485 serial channels. Uses two Z8530 serial chips capable of supporting asynchronous, byte-synchronous, and bit-oriented protocols. I/O routed to the VMEbus P2 connector. Form Factor: 6U (Double)

System Products

XVME-9403 SVGA Industrial Monitor
Includes a 14" SVGA color monitor with a NEMA 4 front panel, suitable for use in harsh environments. Ideally suited for use with Xycom VMEbus PC/AT processors. Sealed numeric keypad and function keys.

VMEbus Software Products

[Works with QNX!]

XVME-965 MS-DOS Operating System
Available directly from Xycom on 3.5" diskettes with complete user documentation.

XVME-983 Software Support Library for the MS-DOS operating system
Provides software tools required to use Xycom's VMEbus PC/AT processor products in the VME environment.

XVME-984 Windows® VMEbus Toolkit
Includes the software tools that allow VMEbus users to take advantage of the powerful Microsoft Windows environment. Windows application programs are included for simple VMEbus communications, debugging and troubleshooting. A Dynamic Link Library is provided, containing routines for controlling Xycom VMEbus products.

XVME-985 VMEbus DDE Servers
These provide the software required to allow Windows application programs that support Dynamic Data Exchange (DDE), such as Xycom's VMEview or Microsoft Excel, to receive data interactively from VMEbus modules. DDE servers are available from Xycom for all of the popular open-architecture VMEbus Programmable Controllers, as well as a general-purpose server for other VMEbus modules.

XVME-987 QNX® 4.*x* Software Support Library
A collection of C routines to ease the implementation of Xycom VMEbus PC/AT and I/O modules into applications using QNX Software Systems' QNX 4.*x* operating system.

VMEview
VMEview is a low-cost Windows®-based graphical user interface package for VMEbus applications. VMEview provides the user with a simple object-oriented method of creating attractive operator displays for formatting and displaying data from VMEbus modules. Designed to work with Xycom's VMEbus PC/AT processors and DDE servers.

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