

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

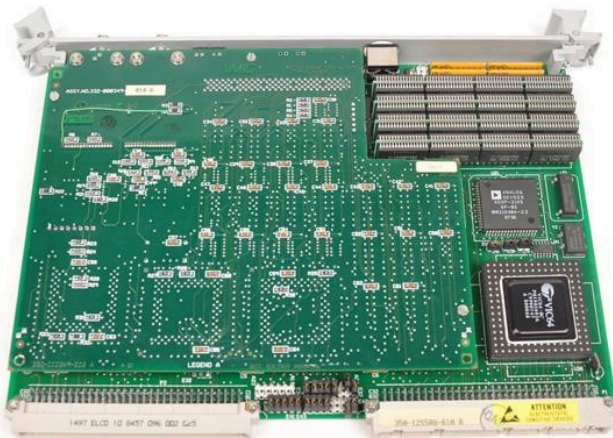
Data Sheet

August 15, 2026

ABACO SYSTEMS / VMIC

Abaco Systems / VMIC VMIPMC-5588DMA-610 Enhanced High-Speed DMA Fiber-Optic 1.2 Gbaud Reflective Memory with Interrupts

The VMIPMC-5588DMA-610 is an Enhanced High-Speed DMA Fiber-Optic 1.2 Gbaud Reflective Memory with Interrupts.

**MODEL****Abaco Systems /
VMIC VMIPMC-
5588DMA-610****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****VMIPMC-
5588DMA-610****LISTING**<https://aumictechlabs.com/products/vmipmc-5588dma-610-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Abaco Systems / VMIC VMIPMC-5588DMA-610 is a PMC-based reflective memory board delivering high-speed, distributed shared memory across fiber-optic networks. Operating at 1.2 Gbaud, the module implements direct memory access (DMA) for zero-copy data synchronization between up to 256 networked nodes. Data written to memory on one node automatically propagates to all connected nodes in software-transparent fashion, eliminating explicit I/O overhead and reducing CPU load. The board supports network-wide interrupt generation for event-driven inter-node communication and system coordination. Technical Specifications Data Rate: 1.2 Gbaud serial fiber-optic network Maximum Transfer Rate: 29.5 Mbyte/s (standard mode); 14.8 Mbyte/s (redundant transfer mode) Network Capacity: Up to 256 nodes On-board Memory:

Configurable 256 Kbyte to 16 Mbyte SDRAM Fiber Connectivity: Multimode to 1,000 ft (300 m); single-mode to 10 km (32,800 ft); twinax to 30 m Memory Access: A24:A32:D64:D32:D16:D8 Form Factor: PMC (PCI Mezzanine Card)Key Features On-board DMA controller enables high-speed transfers without CPU intervention Transmit and receive FIFOs optimize bus performance during peak data rates Software-transparent data replication across distributed nodes Network-wide interrupt capability - any node signals any node or broadcast to all nodes Error detection with redundant transmission suppression mode Mixed-media connectivity: multimode and single-mode fiber plus twinaxTypical Applications distributed computing environments requiring low-latency shared memory, real-time inter-system synchronization, and high-bandwidth node-to-node communication across extended distances.Compatibility & Integration Interfaces as daughterboard to host systems. Documented OS support includes Solaris, SGI IRIX 4.x, SGI IRIX 6.x, VxWorks, DEC UNIX 4.x, and Windows NT.

VMIPMC5588DMA610 Characteristics / Specifications

PARAMETER	VALUE
Model	VMIPMC-5588DMA
Configuration	VMIPMC-5588DMA-610
Instrument Type	Fiber optic reflective memory PMC
Network Rate	1.2 Gbaud
Dma	enhanced high speed DMA
Mechanical Package	PMC
Manufacturer	Abaco VMIC
Media	fiber optic
Host	VME cPCI PMC carriers
Memory Window Class	SDRAM reflective window
Topology	fiber ring class
Latency Class	microsecond class
Interrupts	on write class
Operating Temperature Class	0 to 70 C
Power	PMC 5 V 3.3 V
Connector	fiber
Rohs	configuration dependent
Grounding	chassis ground
Related Pci	PCI-5565PIORC
Node Count Class	multi node
Bypass	optical bypass class
Pci Interface	PMC PCI
Operating temperature	Class: 0 to 70 C

VMIPMC5588DMA610 Specifications

PARAMETER	VALUE
Key Features	1.2 Gbaud fiber reflective memory
Abaco / VMIC dual brand	610 configuration suffix
Technical Specifications	Model: VMIPMC-5588DMA

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: 0 to 70 C
Operating Temperature	Class: 0 to 70 C
Operating Temperature Class	0 to 70 C
Power	PMC 5 V 3.3 V
Connector	fiber
Rohs	configuration dependent
Grounding	chassis ground
Related Pci	PCI-5565PIORC
Node Count Class	multi node
Bypass	optical bypass class
Pci Interface	PMC PCI Notes Identity from Abaco/VMIC VMIPMC-5588DMA-610 Enhanced High-Speed DMA Fiber-Optic 1.2 Gbaud Reflective Memory listing. Exact SDRAM size is on the 5588DMA datasheet matching -610.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
Specifications	
PARAMETER	VALUE
Model	VMIPMC-5588DMA
Configuration	VMIPMC-5588DMA-610
Instrument Type	Fiber optic reflective memory PMC
Network Rate	1.2 Gbaud
Dma	enhanced high speed DMA
Mechanical Package	PMC
Manufacturer	Abaco VMIC
Media	fiber optic
Host	VME cPCI PMC carriers
Memory Window Class	SDRAM reflective window
Topology	fiber ring class
Latency Class	microsecond class
Interrupts	on write class
Operating Temperature Class	0 to 70 C
Power	PMC 5 V 3.3 V
Connector	fiber
Rohs	configuration dependent
Grounding	chassis ground
Related Pci	PCI-5565PIORC
Node Count Class	multi node
Bypass	optical bypass class
Pci Interface	PMC PCI
Notes	
Identity from Abaco/VMIC VMIPMC-5588DMA-610 Enhanced High-Speed DMA Fiber-Optic 1.2 Gbaud Reflective Memory listing. Exact SDRAM size is on the 5588DMA datasheet matching -610.	

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 15, 2026

Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.