

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

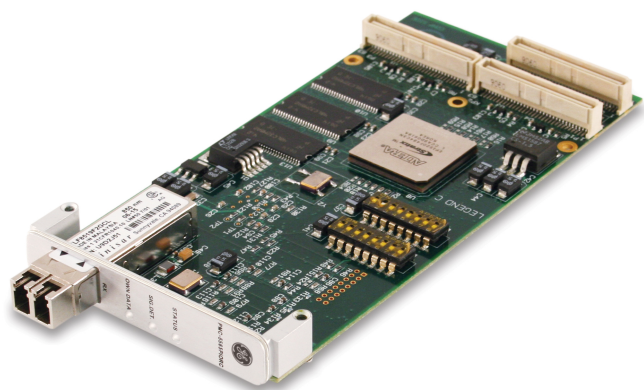
Data Sheet

August 15, 2026

ABACO SYSTEMS / VMIC

Abaco Systems / VMIC PMC-5565PIORC-210000 Reflective Memory PMC Node Card - RoHS Compliant

The Abaco Systems / VMIC PMC-5565PIORC-210000 is a RoHS-compliant Reflective Memory PMC Node Card engineered for deterministic, low-latency data sharing across distributed systems. Operating as a PCI Mezzanine Card, it enables up to 256 independent nodes to exchange data transparently, with writes to onboard memory automatically mirrored across the network. No host processor overhead is required for network operation, making it ideal for real-time applications demanding hardware-transparent synchronization. Typical Applications Industrial control, real-time simulation, automated test systems, and high-speed data acquisition requiring synchronized multi-system operation. Compatibility & Integration Requires PMC/PMI carrier (e.g., Abaco 2BARCBD1). Compatible with VME/VXI/PCI/CompactPCI systems. Supported on Linux, VxWorks, Windows RTX, Windows 2000, and Windows XP platforms. Aumictech o



MODEL

**Abaco Systems /
VMIC PMC-
5565PIORC-
210000**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

**PMC-5565PIORC-
210000**

LISTING

[https://aumictechlabs.c
om/products/pmc-5565
piorc-210000-2/](https://aumictechlabs.com/products/pmc-5565-piorc-210000-2/)

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Abaco Systems / VMIC PMC-5565PIORC-210000 is a RoHS-compliant Reflective Memory PMC Node Card engineered for deterministic, low-latency data sharing across distributed systems. Operating as a PCI Mezzanine Card, it enables up to 256 independent nodes to exchange data transparently, with writes to onboard memory automatically mirrored across the network. No host processor overhead is required for network operation, making it ideal for real-time applications demanding hardware-transparent synchronization.

Technical Specifications
Form Factor: PMC (PCI Mezzanine Card) Network Architecture: Reflective Memory (RFM)
Maximum Nodes: Up to 256 Serial Communication Speed: 2.12 Gbaud Data Transfer Rate: 43 Mbyte/s (4-byte packets) to 170 Mbyte/s (64-byte packets) Packet Size: Configurable, 4 to 64 bytes Onboard Memory: 128 MB or 256 MB SDRAM configurations Fiber Optic Reach: Multimode up to 300 m; single-mode up to 10 km Latency: Deterministic, typical < 500 ns Power Consumption: 5 W typical Power Supply: +3.3 VDC Operating Temperature: -40°C to +85°C (industrial grade) Wavelength: 850 nm (multimode fiber, ST/LC connectors)

Key Features PCI bus compatibility: 32-bit/33 MHz or 64-bit/66 MHz (3.3V or 5V logic) Interrupt generation to any node or broadcast to all nodes with single command Error detection with optional redundant transfer mode for enhanced suppression Software-transparent operation eliminates I/O overhead Fully RoHS compliant

Typical Applications Industrial control, real-time simulation, automated test systems, and high-speed data acquisition requiring synchronized multi-system operation.

Compatibility & Integration Requires PMC/PMI carrier (e.g., Abaco 2BARCBD1). Compatible with VME/VXI/PCI/CompactPCI systems. Supported on Linux, VxWorks, Windows RTX, Windows 2000, and Windows XP platforms.

PMC5565PIORC210000 Characteristics / Specifications

PARAMETER	VALUE
Model	PMC-5565PIORC-210000
Instrument Type	Fiber-optic Reflective Memory PMC node
Card Form Factor	PMC
Memory This Config	256 MByte SDRAM
Memory Options Family	128 MByte or 256 MByte SDRAM
Link Serial Rate	2.125 Gbaud
Nonredundant Transfer Rate	43 MByte/s single longword to 170 MByte/s 64-byte bursts
Redundant Transfer Rate	20 MByte/s single longword to 87 MByte/s 64-byte bursts
Pci Transfer Rate 33 Mhz 32 Bit	132 MByte/s
Pci Transfer Rate 33 Mhz 64 Bit Or 66 Mhz 32 Bit	264 MByte/s
Pci Transfer Rate 66 Mhz 64 Bit	528 MByte/s
Power 3.3 Vdc	0.7 A typical 0.9 A maximum plus or minus 5 percent
Power 5 Vdc	0.7 A typical 0.9 A maximum plus or minus 5 percent
Cooling Requirement	300 LFM
Operating Temperature	0 to plus 65 C with forced air cooling
Storage Temperature	-40 to plus 85 C
Relative Humidity	20 to 80 percent noncondensing
Mass	0.15 lb
Mtbf Bellcore	1307078 hours
Simplex Cable Distance Multimode Class	up to 820 ft (250 m)
Duplex Cable Distance	up to 721 ft (219.76 m)
Transmission Mode This Config Class	multimode
Network Node Capacity Family	up to 256 nodes
RoHS	designed to meet EU RoHS 2002/95/EC

PARAMETER	VALUE
Emi Class	EN55022 ClassAFCC Part 15 ClassAOperating Systems Support: Windows XP Windows 7 Linux VxWorks Solaris
Humidity	20 to 80 percent noncondensing

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	40 to plus 85 C
Operating temperature	0 to plus 65 C with forced air cooling
Operating Temperature	0 to plus 65 C with forced air cooling
Humidity	20 to 80 percent noncondensing
Relative Humidity	20 to 80 percent noncondensing
Mass	0.15 lb
Mtbf Bellcore	1307078 hours
Simplex Cable Distance Multimode Class	up to 820 ft (250 m)
Duplex Cable Distance	up to 721 ft (219.76 m)
Transmission Mode This Config Class	multimode
Network Node Capacity Family	up to 256 nodes
Rohs	designed to meet EU RoHS 2002/95/EC
Emi Class	EN55022 ClassAFCC Part 15 ClassAOperating Systems Support: Windows XP Windows 7 Linux VxWorks Solaris Notes From J-Squared/GE PMC-5565PIORC Reflective Memory datasheet and hardware reference ordering string PMC-5565PIORC-ABCDEF. Queue SKU PMC-5565PIORC-210000 selects the 256 MByte multimode configuration.

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	PMC-5565PIORC-210000
Instrument Type	Fiber-optic Reflective Memory PMC node
Card Form Factor	PMC
Memory This Config	256 MByte SDRAM
Memory Options Family	128 MByte or 256 MByte SDRAM
Link Serial Rate	2.125 Gbaud
Nonredundant Transfer Rate	43 MByte/s single longword to 170 MByte/s 64-byte bursts
Redundant Transfer Rate	20 MByte/s single longword to 87 MByte/s 64-byte bursts
Pci Transfer Rate 33 Mhz 32 Bit	132 MByte/s
Pci Transfer Rate 33 Mhz 64 Bit Or 66 Mhz 32 Bit: 264 MByte/s	
Specifications	
PARAMETER	VALUE
Pci Transfer Rate 66 Mhz 64 Bit	528 MByte/s
Power 3.3 Vdc	0.7 A typical 0.9 A maximum plus or minus 5 percent
Power 5 Vdc	0.7 A typical 0.9 A maximum plus or minus 5 percent
Cooling Requirement	300 LFM
Operating Temperature	0 to plus 65 C with forced air cooling
Storage Temperature	-40 to plus 85 C
Relative Humidity	20 to 80 percent noncondensing
Mass	0.15 lb
Mtbf Bellcore	1307078 hours
Simplex Cable Distance Multimode Class	up to 820 ft (250 m)
Duplex Cable Distance	up to 721 ft (219.76 m)
Transmission Mode This Config Class	multimode
Network Node Capacity Family	up to 256 nodes

PARAMETER	VALUE
Rohs	designed to meet EU RoHS 2002/95/EC
Emi Class	EN55022 ClassAFCC Part 15 ClassAOperating Systems Support: Windows XP Windows 7 Linux VxWorks Solaris

Notes

From J-Squared/GE PMC-5565PIORC Reflective Memory datasheet and hardware reference ordering string PMC-5565PIORC-ABCDEF. Queue SKU PMC-5565PIORC-210000 selects the 256 MByte multimode configuration.

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.