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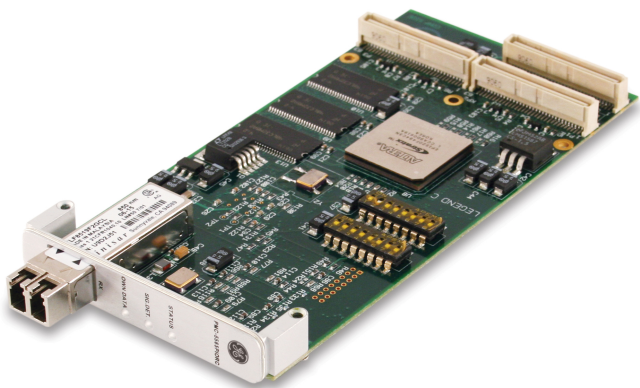
Data Sheet

August 15, 2026

ABACO SYSTEMS / VMIC

Abaco Systems / VMIC PMC-5565PIORC-110000 Reflective Memory PMC Node Card - RoHS Compliant

The Abaco Systems / VMIC PMC-5565PIORC-110000 is a RoHS-compliant Reflective Memory PMC node card engineered for high-speed, low-latency, deterministic data sharing across distributed systems. Operating as a mezzanine interface on PCI 64-bit 66 MHz carriers, this card enables software-transparent data exchange between up to 256 network nodes with zero processor overhead, making it ideal for real-time, time-critical applications requiring consistent performance across heterogeneous platforms and operating systems. Compatibility & Integration Supported operating systems include Windows, Linux, VxWorks, LabVIEW RT, RTX/RTX64, and DOS. Native integration with NI VeriStand for real-time testing applications. Requires PMC/PMI carrier (Abaco P/N 2BARCBD1) as a replacement for legacy PCI-5565PIORC implementations. Aumictech offers NIST-traceable calibration and repair for the Abaco Systems / V



MODEL

**Abaco Systems /
VMIC PMC-
5565PIORC-
110000**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

**PMC-5565PIORC-
110000**

LISTING

[https://aumictechlabs.c
om/products/pmc-5565
piorc-110000-2/](https://aumictechlabs.com/products/pmc-5565-piorc-110000-2/)

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Abaco Systems / VMIC PMC-5565PIORC-110000 is a RoHS-compliant Reflective Memory PMC node card engineered for high-speed, low-latency, deterministic data sharing across distributed systems. Operating as a mezzanine interface on PCI 64-bit 66 MHz carriers, this card enables software-transparent data exchange between up to 256 network nodes with zero processor overhead, making it ideal for real-time, time-critical applications requiring consistent performance across heterogeneous platforms and operating systems.

Technical Specifications

Data Transfer Rate: Up to 170 Mbyte/s (64-byte packets); minimum 43 Mbyte/s (4-byte packets)

Fiber Optic Network Speed: 2.12 Gbaud serial Fiber Optic Reach: Multimode fiber to 300 meters; single-mode fiber to 10 kilometers

Onboard Memory: 128 Mbyte or 256 Mbyte SDRAM (configurable)

Packet Size: 4 to 64 bytes, dynamically configurable

PCI Interface: 64-bit 66 MHz, 3.3 V or 5 V logic compatible

DMA Channels: One independent DMA channel

PIO Window: Selectable 2 MByte to 64 MByte, or full installed memory

Operating Temperature: 0–65°C

Storage Temperature: –40–85°C

Form Factor: PMC (single-width mezzanine)

Key Features

Any network node can generate interrupts to single or all nodes with a single command

Transmit and receive FIFOs optimize host performance during peak data rates

Improved PIO read performance with selectable memory window sizes

Software transparency eliminates I/O overhead and host CPU burden

Deterministic transfer rates for time-critical, safety-critical applications

Network capacity to 256 nodes on shared reflective memory architecture

Typical Applications

Real-time avionics and aerospace data distribution

Military telemetry and command networks

Distributed industrial control and monitoring

Multi-processor synchronization in embedded systems

Time-deterministic sensor fusion and data aggregation

Compatibility & Integration

Supported operating systems include Windows, Linux, VxWorks, LabVIEW RT, RTX/RTX64, and DOS. Native integration with NI VeriStand for real-time testing applications. Requires PMC/PMI carrier (Abaco P/N 2BARCBD1) as a replacement for legacy PCI-5565PIORC implementations.

PMC5565PIORC110000 Characteristics / Specifications

PARAMETER	VALUE
Model	PMC-5565PIORC-110000
Instrument Type	Fiber-optic Reflective Memory PMC node
Card Form Factor	PMC
Memory This Config	128 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
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Duplex Cable Distance	up to 721 ft (219.76 m)
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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-110000 selects the 128 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.

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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

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<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.