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Data Sheet

August 15, 2026

ABACO SYSTEMS / VMIC

Abaco Systems / VMIC PCI-5565-110 / VMIPCI-5565-110 Reflective Memory Interface

The Abaco Systems/VMIC PCI-5565-110 Reflective Memory Interface is a PCI-based network adapter enabling deterministic, low-latency data sharing across distributed systems. Data written to memory on any node automatically broadcasts to all other nodes on the network, eliminating host processor overhead and I/O bottlenecks. The interface supports up to 256 independent nodes connected via fiber optic links, delivering peak throughput of 174 Mbyte/s with 64-byte packets and sustained operation at 43 Mbyte/s with 4-byte packets.

Compatibility & Integration Part of the VMlxxx-5565 family with network-compatible VMEbus (VMIVME-5565) and PCI Mezzanine Card (VMIPMC-5565) versions. Manufactured in the USA. Aumictech offers NIST-traceable calibration and repair for the Abaco Systems / VMIC PCI-5565-110 / VMIPCI-5565-110. Calibration covers analog input channel accuracy and offset at all gain sett



MODEL

**Abaco Systems /
VMIC PCI-5565-
110 / VMIPCI-
5565-110**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

**PCI-5565-110 /
VMIPCI-5565-110**

LISTING

[https://aumictechlabs.c
om/products/pci-5565-
110-vmipci-5565-110-2/](https://aumictechlabs.com/products/pci-5565-110-vmipci-5565-110-2/)

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

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Technical Specifications
Interface: PCI Revision 2.2 compliant
Network Architecture: Reflective Memory with up to 256 nodes
Data Transfer Rates: 43 Mbyte/s (4-byte packets); up to 174 Mbyte/s (64-byte packets)
Packet Size: Dynamic, 4 to 64 bytes
Onboard SDRAM: 64 MB or 128 MB configurations
Serial Data Rate: 2.12 Gbaud
Fiber Optic Links: Multimode up to 300 m; Single Mode up to 10 km
Physical Dimensions: 6 cm × 20 cm × 17.2 cm
Weight: 0.86 kg

Key Features
Software-transparent data transfer with no host processor involvement
Transmit and Receive FIFOs buffer peak-rate traffic for optimized bus performance
Any node can generate interrupts to single nodes or broadcast to all nodes via single command
Four user-definable interrupt levels with data-following acknowledgment
Error detection with redundant transfer mode for enhanced suppression
One independent DMA channel

Typical Applications
Real-time control systems requiring deterministic latency
Distributed data acquisition networks
Multi-node synchronized operations in demanding aerospace and defense environments

Compatibility & Integration
Part of the VMlxxx-5565 family with network-compatible VMEbus (VMIVME-5565) and PCI Mezzanine Card (VMIPMC-5565) versions. Manufactured in the USA.

PCI5565110VMIPCI5565110 Characteristics / Specifications

PARAMETER	VALUE
Model	PCI-5565PIORC
Instrument Type	Fiber-optic Reflective Memory PCI node
Card Form Factor	PCI
Memory Options	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)
Fifo Option Code B	4k FIFO
Transmission Mode Multimode	code 0
Transmission Mode Single Mode	code 1
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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Relative Humidity	20 to 80 percent noncondensing
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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 PCI-5565PIORC Reflective Memory datasheet and hardware reference ordering string PCI-5565PIORC-ABCDEF. Queue SKUs PCI-5565PIORC-110000 and -210000 select 128/256 MByte multimode configurations.

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	
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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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NIST-traceable calibration · SAM registered ·
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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.