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Data Sheet

August 15, 2026

ABACO SYSTEMS / VMIC

Abaco Systems / VMIC PCI-5565-010 / VMIPCI-5565-010 Reflective Memory Interface

The Abaco Systems PCI-5565-010 is a reflective memory interface card. It allows multiple computers to share a common memory space for real-time data sharing and communication.

**MODEL****Abaco Systems /
VMIC PCI-5565-
010****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****PCI-5565-010****LISTING**[https://aumictechlabs.c
om/products/pci-5565-
010-2/](https://aumictechlabs.com/products/pci-5565-010-2/)

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Abaco Systems PCI-5565-010 is a reflective memory interface card enabling deterministic, low-latency data sharing across up to 256 networked nodes. The card broadcasts data written to onboard SDRAM to all connected systems transparently, eliminating host processor overhead and supporting real-time exchange between computers, workstations, PLCs, and embedded controllers regardless of architecture or operating system. Technical Specifications Network Architecture Optical ring-based topology supporting up to 256 independent nodes Serial connection speed: 2.12 Gbaud Network transfer rate: 43 Mbyte/s to 174 Mbyte/s (packet-size dependent) Sustained data rate: up to 170 Mbyte/s Deterministic latency: approximately 450 to 500 nanoseconds between nodes Memory & Processing Onboard SDRAM: 64 Mbyte or 128 Mbyte configurations Configurable packet size: 4 to 64 bytes Transmit and receive FIFOs for

peak-rate buffering One or two independent DMA channels (variant-dependent) Physical Interfaces PCI bus add-in card supporting 3.3V or 5V operation Multimode fiber connections: up to 300 meters Single-mode fiber connections: up to 10 kilometers Control & Reliability User-definable interrupt levels: four levels supported Unique node identification: 0-255 via jumper configuration Error detection and suppression including redundant transfer mode Interrupt propagation ensures reception acknowledgment before processing

Key Features Software-transparent data transfer with minimal processor involvement Broadcast mechanism automatically replicates writes across all network nodes Fast local SDRAM access times for onboard storage Fiber-optic connectivity enables extended network distances

Typical Applications Real-time distributed control systems, multi-node data acquisition networks, deterministic inter-processor communication, and heterogeneous system integration requiring synchronized memory spaces.

Compatibility & Integration Supports PCI bus environments with 3.3V or 5V signaling. Integrates with diverse processor architectures and operating systems through hardware-based memory sharing, eliminating software protocol overhead.

PCI5565010 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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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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Notes

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