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Data Sheet

August 15, 2026

CURTISS-WRIGHT / SYSTRAN

Curtiss-Wright / Systran SCRAMNet A-H-PR-BCPCI PCI Module

The Curtiss-Wright/Systran SCRAMNet A-H-PR-BCPCI is a PCI module designed for high-speed data communication and real-time computing applications. It facilitates rapid data transfer between multiple nodes in a distributed system, making it suitable for simulations, data acquisition, and industrial control systems.

**MODEL****Curtiss-Wright /
Systran A-H-PR-
BCPCI****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****A-H-PR-BCPCI****LISTING**[https://aumictechlabs.c
om/products/a-h-pr-bc
pci-2/](https://aumictechlabs.com/products/a-h-pr-bc-pci-2/)

NIST-traceable cal

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NAICS 423690 • 811210 • 541380

This unit

The Curtiss-Wright / Systran SCRAMNet A-H-PR-BCPCI PCI Module is a shared-memory interface for real-time distributed computing, simulations, data acquisition, and industrial control systems. Built on PCI Local Bus Specification Rev. 2.1, it enables ultra-low-latency, deterministic data synchronization across up to 256 networked nodes using replicated shared-memory architecture. The module eliminates traditional networking protocol overhead, allowing simultaneous access to shared data across all nodes with sub-microsecond system latency. Technical Specifications Bus Interface: PCI Local Bus Specification, Rev. 2.1, single-slot configuration Shared Memory: 4 KB or 128 KB on-board; upgradeable via SIMM/expansion cards to 512 KB, 1 MB, 2 MB, 4 MB, or 8 MB

Data Throughput: 16.7 MB/sec Node Latency: 250 ns/node base; 250 ns to 800 ns (4-byte packet), 250 ns to 1.5 μ s (16-byte packet), 250 ns to 4.2 μ s (64-byte packet), 250 ns to 16 μ s (256-byte packet), 250 ns to 61.8 μ s (1 KB packet) Maximum Nodes: 256 Power Supply: +5 VDC, 3 A Operating Temperature: 0°C to 40°C Operating Humidity: 10% to 90% non-condensing Key Features Replicated shared-memory architecture minimizes collisions and protocol overhead Flexible transmission media: coax (SMA connectors, 30 m max separation) or fiber optic (standard 62.5 μ m multimode, ST connectors, 300 m max separation; 1300 nm extended-range option to 3500 m) Versatile media interface card supporting both coax and fiber-optic configurations Two external trigger outputs (26.64 ns pulse width, TTL-compatible): host-access triggered and network-write triggered Form factors: standard PCI, PMC (2.913" $\times$ 5.866"), SBus (3.299" $\times$ 5.760"), rehostable configurations Typical Applications Real-time simulation and testing, high-speed data distribution in distributed control networks, low-latency telemetry systems, deterministic industrial automation. Compatibility & Integration Compatible with standard PCI-based computer systems. Single-slot installation. Supports both short-distance coax and long-distance fiber-optic node interconnection.

AHPRBCPCI Characteristics / Specifications

PARAMETER	VALUE
Model	A-H-PR-BCPCI
Instrument Type	SCRAMNet PCI reflective memory
Family	SCRAMNet+ Network SC150
Pci Specification	Version 2.0
Board Size	4.200 in x 9.500 in
Simm Size Range	512 KB to 8 MB
Shared Memory Steps	512 KB, 1 MB, 2 MB, 4 MB, or 8 MB
Onboard Memory Class	4 KB or OEM optional 128 KB overridden by SIMM upgrade
Media Card	standard fiber A-H-PR-BCTRSTDF
Related Pmc	A-HS-DPMC02M-20 2 MB PMC
Related Pci	A-H-PR-BCPCI2 SC150e with 2 MB soldered SRAM
Form Factor	PCI card
Manufacturer	Systran / Curtiss-Wright
Use Case	reflective shared memory
Control	PCI memory map / SCRAMNet driver
Operating Temperature Class	commercial PCI
Literature	Systran SCRAMNet A-H-PR-BCPCI SC150 PCI listings
Network	SCRAMNet+ replicated shared memory
Documentation Type	OEM SCRAMNet PCI catalog
Brand Lineage	Systran Curtiss-Wright
System Role	PCI reflective-memory node
Host Bus	PCI
Operating temperature	Class: commercial PCI

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: commercial PCI
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Literature	Systran SCRAMNet A-H-PR-BCPCI SC150 PCI listings
Network	SCRAMNet+ replicated shared memory
Documentation Type	OEM SCRAMNet PCI catalog
Brand Lineage	Systran Curtiss-Wright
System Role	PCI reflective-memory node
Host Bus	PCI Notes From Systran/Curtiss-Wright SCRAMNet A-H-PR-BCPCI SC150 PCI listings (PCI 2.0, 4.200 × 9.500 in, 512 KB-8 MB SIMM, CTRSTDF fiber media). Fiber wavelength, node spacing, and interrupt model are on the SC150 PCI data sheet.

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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PARAMETER	VALUE
Model	A-H-PR-BCPCI
Instrument Type	SCRAMNet PCI reflective memory
Family	SCRAMNet+ Network SC150
Pci Specification	Version 2.0
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Simm Size Range	512 KB to 8 MB
Shared Memory Steps	512 KB, 1 MB, 2 MB, 4 MB, or 8 MB
Onboard Memory Class	4 KB or OEM optional 128 KB overridden by SIMM upgrade
Media Card	standard fiber A-H-PR-BCTRSTDF
Related Pmc	A-HS-DPMC02M-20 2 MB PMC
Related Pci2	A-H-PR-BCPCI2 SC150e with 2 MB soldered SRAM
Form Factor	PCI card
Manufacturer	Systran / Curtiss-Wright
Use Case	reflective shared memory
Control	PCI memory map / SCRAMNet driver
Operating Temperature Class	commercial PCI
Literature	Systran SCRAMNet A-H-PR-BCPCI SC150 PCI listings
Network	SCRAMNet+ replicated shared memory
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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.