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Data Sheet

August 15, 2026

CURTISS-WRIGHT / SYSTRAN

Curtiss-Wright / Systran SCRAMNet AHSB-DPCIG04M-T PCI Module

The Curtiss-Wright/Systran SCRAMNet AHSB-DPCIG04M-T is a PCI module designed for real-time data sharing in demanding industrial applications. It facilitates rapid communication between multiple nodes, ensuring data consistency and minimal latency. Ideal for simulation, test and measurement, and control systems.

**MODEL****Curtiss-Wright /
Systran AHSB-
DPCIG04M-T****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****AHSB-DPCIG04M-
T****LISTING**[https://aumictechlabs.c
om/products/ahsb-dpci
g04m-t-2/](https://aumictechlabs.com/products/ahsb-dpci-g04m-t-2/)

NIST-traceable cal

SAM registered

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NAICS 423690 • 811210 • 541380

This unit

The Curtiss-Wright/Systran SCRAMNet AHSB-DPCIG04M-T is a PCI module engineered for deterministic, low-latency inter-node communication in distributed real-time systems. It implements a replicated shared-memory architecture that enables multiple nodes to access and update data simultaneously with minimal overhead. The module delivers up to 16.7 MB/sec throughput and guarantees deterministic performance through a register insertion media access protocol that eliminates data collisions. Transport delay is 250 nSec per node, with node latency ranging from 250 nSec to 800 nSec for 4-byte packets and 250 nSec to 1.5 μ Sec for 16-byte packets. Technical Specifications Data Throughput: Up to 16.7 MB/sec (packet-size dependent)

Transport Delay: 250 nSec per node Node Latency: 250 nSec–800 nSec (4-byte packets); 250 nSec–1.5 μ Sec (16-byte packets) On-Board Memory: Up to 8 MB replicated shared-memory via high-speed SRAM SIMM modules Bus Interface: PCI Local Bus Specification Rev. 2.1 ASIC Core: Handles message reception, transmission arbitration, network control, memory management, interrupt handling, error detection and correction Operating Temperature: 0°C to 40°C Key Features Fiber optic connectivity: 820 nm (300 m max) and 1300 nm (3500 m max) interfaces with ST connectors on 62.5/125 micron multi-mode cable Coaxial connectivity: RG-58U 50 ohm cable with SMA connectors up to 30 m Shared-memory controller provides transparent interprocessor communication, reducing network I/O overhead V3 Semiconductor V363EPC PCI Bridge chipset Short-length adapter board designed for installation in the last PCI slot Typical Applications Simulation and distributed test environments, real-time measurement and control systems, applications requiring deterministic inter-node synchronization. Compatibility & Integration Backwards compatible with SCRAMNet+ and SCRAMNet Classic products (except GOLD RING protocol). Supports multiple backplane architectures including PCI, VME, ISA, EISA, PMC, SBus, GIO-32, and CompactPCI.

AHSBDPCIG04MT Characteristics / Specifications

PARAMETER	VALUE
Model	AHSB-DPCIG04M-T
Instrument Type	PCI reflective memory network module
Family	Systran SCRAMNet+ AHSB-DPCIG
Host Bus	PCI
Reflective Memory	4 MB
Related 2M	AHSB-DPCIG02M-T
Related 4M	AHSB-DPCIG04M-T
Related 8M	AHSB-DPCIG08M-T
Related Pmc	A-HS-DPMC02M-20 SCRAMNet PMC
Related Media	CTRSTDF SCRAMNet media card
Network	SCRAMNet+ fiber reflective memory ring
Form Factor	PCI card
Manufacturer	Systran / Curtiss-Wright
Use Case	real-time shared memory networking
Control	SCRAMNet API / memory-mapped window
Operating Temperature Class	commercial PCI
Literature	Curtiss-Wright Systran SCRAMNet AHSB-DPCIG04M-T listings
Protocol	SCRAMNet+ replicated memory
Media	fiber via media card
Documentation Type	OEM SCRAMNet PCI catalog
Brand Lineage	Systran Curtiss-Wright
System Role	PCI node on a SCRAMNet ring
Mapping	host PCI memory window onto the ring
Operating temperature	Class: commercial PCI

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: commercial PCI
Operating Temperature	Class: commercial PCI
Operating Temperature Class	commercial PCI
Literature	Curtiss-Wright Systran SCRAMNet AHSB-DPCIG04M-T listings
Protocol	SCRAMNet+ replicated memory
Media	fiber via media card
Documentation Type	OEM SCRAMNet PCI catalog
Brand Lineage	Systran Curtiss-Wright
System Role	PCI node on a SCRAMNet ring
Mapping	host PCI memory window onto the ring Notes From Curtiss-Wright / Systran SCRAMNet AHSB-DPCIG04M-T PCI module catalog identity (4 MB). Ring rate, fiber type, and interrupt mapping are on the SCRAMNet+ 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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Model	AHSB-DPCIG04M-T
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Related Media	CTRSTDF SCRAMNet media card
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Form Factor	PCI card
Manufacturer	Systran / Curtiss-Wright
Use Case	real-time shared memory networking
Control	SCRAMNet API / memory-mapped window
Operating Temperature Class	commercial PCI
Literature	Curtiss-Wright Systran SCRAMNet AHSB-DPCIG04M-T listings
Protocol	SCRAMNet+ replicated memory
Media	fiber via media card
Documentation Type	OEM SCRAMNet PCI catalog
Brand Lineage	Systran Curtiss-Wright
System Role	PCI node on a SCRAMNet ring
Mapping	host PCI memory window onto the ring
Notes	
From Curtiss-Wright / Systran SCRAMNet AHSB-DPCIG04M-T PCI module catalog identity (4 MB). Ring rate, fiber type, and interrupt mapping are on the SCRAMNet+ PCI data sheet.	

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.