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Data Sheet

August 15, 2026

GENERAL STANDARDS

General Standards PCI-SIO4B-256K Quad Channel High Performance Serial I/O PCI Card

General Standards Digital Input Board. Channels: ** 4 independent multi-protocol serial channels.



MODEL

**General Standards
PCI-SIO4B-256K**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

PCI-SIO4B-256K

LISTING

<https://aumictechlabs.com/products/pci-sio4b-256k-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The General Standards PCI-SIO4B-256K is a quad-channel serial I/O PCI card designed for multi-protocol serial communication in industrial and commercial environments. It delivers four independent full-duplex channels with synchronous data rates up to 10 Mbits/sec (differential) and asynchronous rates to 1 Mbit/sec (differential). Built on dual Universal Serial Controllers (USC) and equipped with 256 KB total FIFO buffering, the card handles Asynchronous, Synchronous, Isochronous, Bisync, Monosync, HDLC/SDLC, and Nine-Bit protocols. The PCI9080 bridge chip provides a 32-bit, 33 MHz interface (132 MBit/sec) conforming to PCI Specification 2.1, with DMA support and plug-and-play initialization. Connectivity uses a 68-pin SCSI III front-edge connector; optional DB25 adapter cables are available. Technical Specifications Channels: 4 independent multi-protocol serial channels Protocol Support: Asynchronous, Synchronous, Isochronous, Bisync, Monosync, HDLC/SDLC, Nine-Bit Synchronous Data Rate: Up to 10 Mbits/sec (differential);

up to 250 kbits/sec (RS232 option) Asynchronous Data Rate: Up to 1 Mbit/sec (differential) FIFO Buffering: 256 Kbytes total with independent Transmit and Receive FIFOs per channel Controllers: Two Dual Universal Serial Controllers (USC) Power Supply: +5 VDC $\pm$ 0.2 VDC Current Draw: 1.5 A typical Power Dissipation: 6.0 W typical PCI Interface: 32-bit, 33 MHz (132 MBit/sec); DMA master capable User Connector: 68-pin SCSI III female (AMP 787170-7); mating connector AMP 749111-6 Dimensions: 175.92 mm $\times$ 106.68 mm $\times$ 6.1 mm Operating Temperature: 0 to +55 °C Storage Temperature: -40 to +85 °C Humidity: 0 to 80% operating; 0 to 95% storage (non-condensing) Altitude: To 10,000 ft Cooling: 200 LFM conventional air-cooling Key Features Dual USC architecture enables parallel multi-protocol operation Large 256 KB FIFO reduces CPU interrupt latency PCI plug-and-play initialization and single multifunction interrupt DMA support for efficient data transfers Differential signaling for extended cable runs Typical Applications Industrial serial device control and monitoring Multi-protocol gateway and protocol conversion High-speed point-to-point serial links Real-time data acquisition from legacy equipment Compatibility & Integration Device drivers available for VxWorks, WinNT, Win2000, Windows XP, Linux, and LabVIEW. Free Windows and Linux drivers provided.

PCISIO4B256K Characteristics / Specifications

PARAMETER	VALUE
Model	PCI-SIO4B-256K
Instrument Type	Quad-channel high-performance serial I/O PCI card
Family	General Standards SIO4B / PCI66-SIO4B
Channel Count	four independent full-duplex serial channels
Transceivers	RS-422 / RS-485
Serial Controller	Zilog Z16C30 USC (two dual controllers)
Protocols	asynchronous, monosync, bisync, HDLC, SDLC, nine-bit, IEEE 802.3
Synchronous Rate	up to 10 Mbit/s
Asynchronous Rate Class	up to 1 Mbit/s
Fifo Per Direction	32 kByte transmit and 32 kByte receive per channel
Fifo Total	256 kByte
Pci Interface	32-bit / 66 MHz PCI r2.2, 3.3 V I/O 5 V tolerant
Dma	direct master DMA
Interrupt	single multifunction INTA
Front Connector	68-pin SCSI female
Power Plus	plus 12 VDC plus or minus 0.2 V at 0.03 A max, typical 0.02 A
Cable Class	standard cable to four DB25 connectors available
Fifo Overlay	256K suffix selects 256 kByte total FIFO (128K/64K/32K/8K/4K/1K siblings)
Manufacturer	General Standards Corporation
Literature	General Standards PCI66-SIO4B / PCI-SIO4 specification
System Role	multi-protocol PCI serial interface
Form Factor	PCI long-card class serial module
Clock Recovery	DPLL in USC for clock recovery
Host Os Class	Windows NT/2000/XP and LabVIEW driver listings

PCISIO4B256K Specifications

PARAMETER	VALUE
Applications	Avionics, telemetry, and industrial links needing four independent RS-422/485 synchronous/asynchronous channels with deep FIFOs on PCI.
Key Features	Four independent RS-422/RS-485 channels
Synchronous rates to 10 Mbit/s	66 MHz PCI 2.2 bus-master DMA
Technical Specifications	Model: PCI-SIO4B-256K

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.

Performance Serial I/O PCI Card

Overview

The PCI-SI04B-256K isa four-channel PCI serial card with RS-422/RS-485 transceivers and 256 kByte total FIFO. OEM General Standards PCI66-SI04B / PCI-SI04 literature lists four independent full-duplex channels, Zilog Z16C30 USC controllers, asynchronous/monosync/bisync/HDLC/SDLC/nine-bit/IEEE 802.3, synchronous to 10 Mbit/s and asynchronous to 1 Mbit/s class, independent 32 kByte TX and RX FIFOs per channel (256 kByte total), 32-bit/66 MHz PCI r2.2, 3.3 V I/O 5 V tolerant, bus-master DMA, 68-pin SCSI front I/O, plus 5 VDC plus or minus 0.2 V at 2 A max (typical 1.2 A) and plus 12 VDC plus or minus 0.2 V at 0.03 A max (typical 0.02 A).

Applications

Avionics, telemetry, and industrial links needing four independent RS-422/485 synchronous/asynchronous channels with deep FIFOs on PCI.

Key Features

Four independent RS-422/RS-485 channels
256 kByte total FIFO (32 kByte TX and RX per channel)
Synchronous rates to 10 Mbit/s
66 MHz PCI 2.2 bus-master DMA
68-pin SCSI front-panel I/O

Technical Specifications

Technical Specifications

PARAMETER	VALUE
Model	PCI-SI04B-256K
Instrument Type	Quad-channel high-performance serial I/O PCI card
Family	General Standards SI04B / PCI66-SI04B
Channel Count	four independent full-duplex serial channels
Transceivers	RS-422 / RS-485
Serial Controller	Zilog Z16C30 USC (two dual controllers)
Protocols	asynchronous, monosync, bisync, HDLC, SDLC, nine-bit, IEEE 802.3
Synchronous Rate	up to 10 Mbit/s
Asynchronous Rate Class	up to 1 Mbit/s
Fifo Per Direction	32 kByte transmit and 32 kByte receive per channel
Fifo Total	256 kByte
Pci Interface	32-bit / 66 MHz PCI r2.2, 3.3 V I/O 5 V tolerant
Dma	direct master DMA
Interrupt	single multifunction INTA
Front Connector	68-pin SCSI female
Power Plus 5	plus 5 VDC plus or minus 0.2 V at 2 A max, typical 1.2 A

PARAMETER	VALUE
Power Plus 12	plus 12 VDC plus or minus 0.2 V at 0.03 A max, typical 0.02 A
Cable Class	standard cable to four DB25 connectors available
Fifo Overlay	256K suffix selects 256 kByte total FIFO (128K/64K/32K/8K/4K/1K siblings)
Manufacturer	General Standards Corporation
Literature	General Standards PCI66-SI04B / PCI-SI04 specification
System Role	multi-protocol PCI serial interface
Form Factor	PCI long-card class serial module
Clock Recovery	DPLL in USC for clock recovery
Host Os Class	Windows NT/2000/XP and LabVIEW driver listings

Notes

From General Standards PCI66-SI04B specification (four RS-422/485 channels, 32 kByte FIFOs each direction, 256 kByte total, 66 MHz PCI, plus 5 V 2 A max). PCI-SI04-RS232 isarelated overlay; this SKU is the SI04B-256K RS-422/485 card.

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.