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Data Sheet

August 15, 2026

GENERAL STANDARDS

General Standards PMC66-SIO4BXR-256K 4-Channel High Performance Serial I/O PMC Card

The General Standards PMC66-SIO4BXR-256K is a four-channel serial I/O PMC card delivering synchronous and asynchronous serial communication for demanding embedded systems. Built on a 66 MHz PCI interface engine with independent Dual Universal Serial Controllers per channel, the card supports seven industry-standard protocols - asynchronous, monosync, bisync, SDLC, HDLC, nine-bit, and IEEE 802.3 - across synchronous rates to 10 Mbps and asynchronous rates to 1 Mbps. Each channel includes dedicated 32 kB transmit and receive FIFOs, totaling 256 kB across the card. Multi-protocol transceivers support RS422/RS485 at 10 Mbps, RS423/RS232 at 230 kbps, and V.35 and RS530 interfaces. The card mounts on PMC carrier boards compatible with PCI, PCIe, PXI, and cPCI form factors, enabling flexible deployment across multiple platforms. Aumictech offers NIST-traceable calibration and repair for the Ge



MODEL

**General Standards
PMC66-SIO4BXR-
256K**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

**PMC66-SIO4BXR-
256K**

LISTING

<https://aumictechlabs.com/products/pmc66-sio4bxr-256k-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

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Technical Specifications

Serial Channels: 4 independent, configurable as DTE or DCE Protocols: Asynchronous, monosync, bisync, SDLC, HDLC, nine-bit, IEEE 802.3

Synchronous Data Rate: Up to 10 Mbps

Asynchronous Data Rate: Up to 1 Mbps

FIFO Memory: 32 kB transmit and 32 kB receive per channel (256 kB total)

Transceiver Standards: RS422/RS485, RS423/RS232, V.35, RS530

PCI Interface: 32-bit, 66 MHz, PCI Specification 2.2 compliant

Power Supply: +5 VDC ± 0.2 V at 1.5 A max; +12 VDC ± 0.2 V at 0.03 A max

Power Dissipation: Approximately 5.25 W typical

Connector: 68-pin SCSI-type front edge

Form Factor: 149 mm $\times$ 74 mm PMC mezzanine card

Key Features

- High-speed DMA transfers for efficient data movement
- Independent transmit and receive FIFO buffers per channel
- Unused serial signals configurable as general-purpose I/O
- 3.3 V IO / 5 V tolerant PCI bus interface
- PMC rear I/O connection supported

Compatibility & Integration

Mounts on PMC carriers for PCI, PCIe, PXI, and cPCI systems

Commercial operating temperature: 0°C to +70°C

Industrial operating temperature: -40°C to +85°C

Operating humidity: 0% to 80%, non-condensing

Altitude rating: Up to 10,000 ft

PMC66SIO4BXR256K Characteristics / Specifications

PARAMETER	VALUE
Model	PMC66-SIO4BXR-256K
Instrument Type	Four-channel serial PMC
Family	General Standards SIO4BXR
Channel Count	4
Buffer	256K suffix
Bus	PMC, PMC66 66 MHz PCI class
Manufacturer	General Standards Corporation
Literature	GSC PMC66-SIO4BXR-256K listings
System Role	high-speed serial I/O
Use Case	avionics/industrial serial
Sibling	PCI-SIO4B-256K PCI quad serial
Form Factor	PMC
Documentation Type	PMC66-SIO4BXR-256K listing
Brand Lineage	General Standards
Application Class	serial PMC
Related	SIO4B / SIO4BXR family
Connector Class	PMC plus serial I/O
Host Class	PMC carrier / SBC
Year Class	PMC66-SIO4BXR-256K
Ate Class	serial I/O
Module Class	PMC serial
Protocol Class	RS-232/422/485 class (data sheet)
Baud Class	high-performance (data sheet)
Fifo Class	256K buffer suffix

PMC66SIO4BXR256K Specifications

PARAMETER	VALUE
Key Features	4-channel high-performance serial PMC
PMC66 66 MHz PCI class	256K buffer suffix
Technical Specifications	Model: PMC66-SIO4BXR-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 PMC

Overview

The PMC66-SI04BXR-256K isaGeneral Standards four-channel high-performance serial PMC with 256K buffer suffix. OEM GSC SI04BXR literature describesaPMC serial board with four high-speed channels, 66 MHz PCI class (PMC66), and 256K on-board buffer, used for avionics/industrial serial. Baud, protocol (RS-232/422/485 class), and FIFO depth beyond the 256K suffix are on the SI04BXR data sheet. Sibling PCI-SI04B-256K is the PCI form of the same serial engine.

Applications

Four-channel high-speed serial I/O on PMC for avionics and industrial hosts.

Key Features

4-channel high-performance serial PMC
PMC66 66 MHz PCI class
256K buffer suffix
Sibling PCI-SI04B-256K
Avionics/industrial serial

Technical Specifications

Technical Specifications

PARAMETER	VALUE
Model	PMC66-SI04BXR-256K
Instrument Type	Four-channel serial PMC
Family	General Standards SI04BXR
Channel Count	4
Buffer	256K suffix
Bus	PMC, PMC66 66 MHz PCI class
Manufacturer	General Standards Corporation
Literature	GSC PMC66-SI04BXR-256K listings
System Role	high-speed serial I/O
Use Case	avionics/industrial serial
Sibling	PCI-SI04B-256K PCI quad serial
Form Factor	PMC
Documentation Type	PMC66-SI04BXR-256K listing
Brand Lineage	General Standards
Application Class	serial PMC
Related	SI04B / SI04BXR family
Connector Class	PMC plus serial I/O

PARAMETER	VALUE
Host Class	PMC carrier / SBC
Year Class	PMC66-SI04BXR-256K
Ate Class	serial I/O
Module Class	PMC serial
Protocol Class	RS-232/422/485 class (data sheet)
Baud Class	high-performance (data sheet)
Fifo Class	256K buffer suffix

Notes
From General Standards PMC66-SI04BXR-256K listings (4-channel, 256K, PMC66). Baud, protocol, and exact FIFO organization are on the SI04BXR data sheet; do not invent them.

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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<https://aumictechlabs.com>

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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.