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Data Sheet

August 15, 2026

ABACO SYSTEMS / SBS

Abaco Systems / SBS PMC-HS-Serial Quad Channel High Speed Module

The Abaco Systems / SBS PMC-HS-Serial is a single-wide PMC module delivering quad-channel high-speed serial communication in space-constrained environments. Each channel is fully programmable to support synchronous protocols up to 10 Mb/s (with external clock) and asynchronous protocols to 2 Mb/s. The module handles asynchronous, synchronous, monosync, bisync, HDLC, SDLC, LAPB, LAPD, ISDN, and PPP traffic without requiring hardware reconfiguration. Physical interfaces RS-232, RS-422, EIA-449, EIA-530, and V.35 - are software-configurable, enabling rapid deployment across diverse network architectures. Aumictech offers NIST-traceable calibration and repair for the Abaco Systems / SBS PMC-HS-Serial. Calibration covers analog input channel accuracy and offset at all gain settings, analog output accuracy, digital I/O logic threshold verification, sample rate and timing accuracy, and trigger



MODEL

**Abaco Systems /
SBS PMC-HS-
Serial**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

PMC-HS-Serial

LISTING

<https://aumictechlabs.com/products/pmc-hs-serial-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

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Technical Specifications

Form Factor: Single-wide PMC

Channels: 4 independent serial channels

Data Rates: Synchronous up to 10 Mb/s (external clock); asynchronous up to 2 Mb/s

Protocols: Asynchronous, synchronous, monosync, bisync, HDLC, SDLC, LAPB, LAPD, ISDN, PPP

PCI Bus: 3.3 V or 5.0 V signaling; 33 MHz or 66 MHz operation

Oscillator: 14.7456 MHz standard; user-supplied oscillator location available

Central FIFOs: Receive 128 × 32 bits; transmit 128 × 32 bits

Channel FIFOs: Receive 17 × 32 bits; transmit 8 × 32 bits per channel

DMA Controllers: Eight available for central FIFO burst transfers to shared memory

Key Features

Seven signal pairs per channel routed to rear-panel P4 and front-panel connectors

Software-configurable interface selection eliminates hardware jumpers or daughter cards

Optional transition cable converts 68-pin front-panel connector to four DB25 connectors

Front- and rear-panel I/O supported for flexible deployment

Dual-oscillator design supports standard asynchronous rates and custom baud rate generation

Compatibility & Integration

Requires bus-mastering CPU slot

Controller: Siemens PEB20534 Serial Communication Controller with integrated PCI interface

VxWorks 5.3 driver available for asynchronous operation

PMCHSSERIAL Characteristics / Specifications

PARAMETER	VALUE
Model	PMC-HS-Serial
Instrument Type	high speed serial PMC
Channel Count	4
Form Factor	PMC
Bus Interface	PCI mezzanine
Manufacturer	SBS Abaco Systems
Protocols Class	HDLC UART sync async class
Operating Temperature Class	industrial
Power	PMC rails
Cooling	airflow
Connector	front panel serial IO
DMA	PCI DMA class
FIFO	per channel buffering class
Baud Rate Class	high speed serial rates
Humidity Class	non condensing
Compliance	PMC standard
Driver Support	OS driver packages class
Interrupt	PCI interrupt
Clocking	internal external serial clocks
Isolation Class	per build option
Storage Temperature Class	industrial
Duty	continuous embedded
LEDs	channel status class
Reset	PCI reset
Storage temperature	Class: industrial

PARAMETER	VALUE
Operating temperature	Class: industrial
Humidity	Class: non condensing

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	Class: industrial
Operating temperature	Class: industrial
Operating Temperature	Class: industrial
Humidity	Class: non condensing
Operating Temperature Class	industrial
Power	PMC rails
Cooling	airflow
Connector	front panel serial IO
DMA	PCI DMA class
FIFO	per channel buffering class
Baud Rate Class	high speed serial rates
Humidity Class	non condensing
Compliance	PMC standard
Driver Support	OS driver packages class
Interrupt	PCI interrupt
Clocking	internal external serial clocks
Isolation Class	per build option
Storage Temperature Class	industrial
Duty	continuous embedded
LEDs	channel status class
Reset	PCI reset Notes Identity from Abaco / SBS PMC-HS-Serial Quad Channel High Speed Module listings. Exact maximum bit rate and connector pinout follow the SBS PMC-HS-Serial datasheet revision.

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.