

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

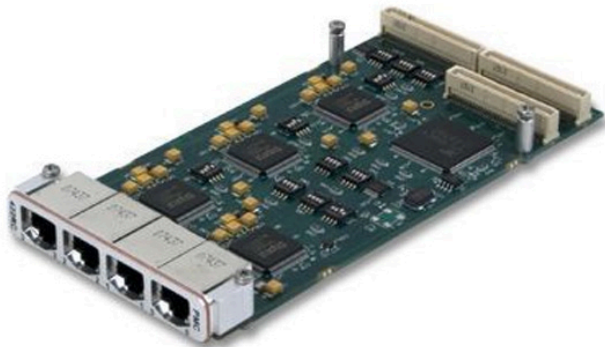
Data Sheet

August 15, 2026

ABACO SYSTEMS / SBS / GREENSPRING

Abaco Systems / SBS / Greenspring PMC-Octal Pro-422 Serial Communication PMC

The PMC-Octal Pro-422 is a PCI Mezzanine Card (PMC) that adds eight asynchronous EIA-422 serial communication channels to host systems. Built around two Quad UARTs, this module delivers high channel density in compact form factors, making it suitable for data communications and industrial control applications requiring multiple serial ports. Each channel supports data rates up to 460.8 kbps with 128-byte transmit and receive FIFOs, programmable baud rates from 50 bps to 460.8 kbps, and full control signal support. The on-board baud rate generator uses a standard 7.3728 MHz oscillator with an empty oscillator site available for custom frequency requirements. Aumictech offers NIST-traceable calibration and repair for the Abaco Systems / SBS / Greenspring PMC-Octal Pro-422. Calibration covers analog input channel accuracy and offset at all gain settings, analog output accuracy, digital I/

**MODEL****Abaco Systems /
SBS / Greenspring
PMC-Octal Pro-
422****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****PMC-Octal Pro-
422****LISTING**<https://aumictechlabs.com/products/pmc-octal-pro-422-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The PMC-Octal Pro-422 is a PCI Mezzanine Card (PMC) that adds eight asynchronous EIA-422 serial communication channels to host systems. Built around two Quad UARTs, this module delivers high channel density in compact form factors, making it suitable for data communications and industrial control applications requiring multiple serial ports. Each channel supports data rates up to 460.8 kbps with 128-byte transmit and receive FIFOs, programmable baud rates from 50 bps to 460.8 kbps, and full control signal support. The on-board baud rate generator uses a standard 7.3728 MHz oscillator with an empty oscillator site available for custom frequency requirements.

Technical Specifications

Channels: 8 asynchronous EIA-422 serial ports

UART Architecture: Two Quad UART devices

Maximum Data Rate: 460.8 kbps per channel

FIFO Buffers: 128-byte transmit, 128-byte receive per channel

Baud Rate Range: 50 bps to 460.8 kbps (software configurable)

Reference Oscillator: 7.3728 MHz (standard); custom oscillator site available

Signal Configuration: Four differential pairs per channel (TxD+/-, RxD+/-, CTS+/-, RTS+-)

Interrupt Levels: Four programmable FIFO trigger levels (transmit/receive)

Protocol Support: Programmable bit length, parity, stop bits for all asynchronous protocols

Termination: Socketed resistor networks for EIA-422 termination customization

Form Factor: IEEE P1386.1 PMC standard

Key Features

- Dual 68-pin front connector and P4 back panel I/O routing for flexible signal access
- Socketed termination networks enable EIA-422 impedance matching without redesign
- Configurable interrupt trigger levels optimize latency and throughput per application
- Optional breakout cable and 68-pin terminal block for prototype and development environments

Typical Applications

- Multi-channel data acquisition and logging systems
- Industrial control systems with distributed serial sensors
- Real-time data communications networks
- Legacy serial protocol modernization in embedded platforms

Compatibility & Integration

Operating Systems: VxWorks 5.3, Windows NT 4.0, Linux (kernel 2.6.0 and later)

Standard Compliance: IEEE P1386.1 PMC specification

Host Interface: PCI Mezzanine Card slot

PMCOCTALPRO422 Characteristics / Specifications

PARAMETER	VALUE
Model	PMC-Octal Pro-422
Instrument Type	octal RS-422 serial PMC
Channel Count	8
Electrical Standard	RS-422
Form Factor	PMC
Manufacturer Line	SBS / GreenSpring / Abaco
Uart Architecture Class	octal UART class
Data Rates Class	asynchronous serial rates to UART limits
Host Bus	PMC PCI
Carrier Compatibility	VME and CompactPCI PMC carriers
Operating Temperature Class	0 C to 55 C commercial class
Storage Temperature Class	minus 40 C to 85 C class
Humidity Class	noncondensing
Power Source	PMC 3.3 V / 5 V rails class
Connector Class	front panel or rear I/O personality
Driver Support Class	VxWorks and Linux class drivers
Series Family	PMC-Octal Pro
Related Model	PMC-Octal Pro-232 RS-232 variant
Interrupt Support Class	PCI interrupt per module class
Fifo Class	UART FIFO buffered class
Flow Control Class	hardware/software flow class
Isolation Class	configuration dependent
Emi Class	PMC front panel EMI practice
Weight Class	single PMC module
Storage temperature	Class: minus 40 C to 85 C class

PARAMETER

VALUE

Operating temperature

Class: 0 C to 55 C commercial class

Humidity

Class: noncondensing

PMCOCTALPRO422 Specifications

PARAMETER	VALUE
Applications	Multi-port RS-422 communications on PMC carriers, industrial serial concentration, and embedded avionics/ground system serial expansion.
Key Features	Eight RS-422 serial channels
Technical Specifications	Model: PMC-Octal Pro-422

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	Class: minus 40 C to 85 C class
Operating temperature	Class: 0 C to 55 C commercial class
Operating Temperature	Class: 0 C to 55 C commercial class
Humidity	Class: noncondensing
Operating Temperature Class	0 C to 55 C commercial class
Storage Temperature Class	minus 40 C to 85 C class
Humidity Class	noncondensing
Power Source	PMC 3.3 V / 5 V rails class
Connector Class	front panel or rear I/O personality
Driver Support Class	VxWorks and Linux class drivers
Series Family	PMC-Octal Pro
Related Model	PMC-Octal Pro-232 RS-232 variant
Interrupt Support Class	PCI interrupt per module class
Fifo Class	UART FIFO buffered class
Flow Control Class	hardware/software flow class
Isolation Class	configuration dependent
Emi Class	PMC front panel EMI practice
Weight Class	single PMC module Notes Capability rows from Abaco/SBS/GreenSpring PMC-Octal Pro-422 catalog descriptions. Exact baud ceilings and connector pinouts follow the Pro-422 hardware 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	
Specifications	
PARAMETER	VALUE
Model	PMC-Octal Pro-422
Instrument Type	octal RS-422 serial PMC
Channel Count	8
Electrical Standard	RS-422
Form Factor	PMC
Manufacturer Line	SBS / GreenSpring / Abaco
Uart Architecture Class	octal UART class
Data Rates Class	asynchronous serial rates to UART limits
Host Bus	PMC PCI
Carrier Compatibility	VME and CompactPCI PMC carriers
Operating Temperature Class	0 C to 55 C commercial class
Storage Temperature Class	minus 40 C to 85 C class
Humidity Class	noncondensing
Power Source	PMC 3.3 V / 5 V rails class
Connector Class	front panel or rear I/O personality
Driver Support Class	VxWorks and Linux class drivers
Series Family	PMC-Octal Pro
Related Model	PMC-Octal Pro-232 RS-232 variant
Interrupt Support Class	PCI interrupt per module class
Fifo Class	UART FIFO buffered class
Flow Control Class	hardware/software flow class
Isolation Class	configuration dependent
Emi Class	PMC front panel EMI practice
Weight Class	single PMC module

Notes

Capability rows from Abaco/SBS/GreenSpring PMC-Octal Pro-422 catalog descriptions. Exact baud ceilings and connector pinouts follow the Pro-422 hardware revision.

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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 15, 2026

Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.