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Data Sheet

August 15, 2026

ABACO SYSTEMS / SBS / GREENSPRING

Abaco Systems / SBS / Greenspring IP-MP-Serial Dual EIA-232/422/485 High-Speed Multi-Protocol Serial Port IndustryPack Module

IndustryPack module with dual EIA-232/422/485 high-speed multi-protocol serial ports.

**MODEL****Abaco Systems /
SBS / Greenspring
IP-MP-Serial****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****IP-MP-Serial****LISTING**<https://aumictechlabs.com/products/ip-mp-serial-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The IP-MP-Serial is a dual-channel IndustryPack module engineered for high-speed serial communication across EIA-232, EIA-422, and EIA-485 standards. Built around the Zilog Z16C30 Universal Multi-Protocol Serial Controller, it delivers independent channels with four 32-byte FIFO buffers per channel and support for synchronous protocols including SDLC, HDLC, bisynchronous, NRZ, NRZI, Biphase, and MIL-STD-1553B. Each channel features its own baud rate generator, digital phase-locked loop, vector register, interrupt controller, and protocol controller, enabling flexible multi-protocol operation in demanding embedded and industrial systems.

Technical Specifications
Serial Controller: Zilog Z16C30 Universal Multi-Protocol Serial Controller (USC)
Serial Ports: Dual (2) independent channels
Standards Supported: EIA-232, EIA-422, EIA-485 (EIA-485 factory special order on some variants)
Data Rates: Up to 10 Mb/s

synchronous with external clock FIFO Buffers: Four 32-byte buffers per channel (transmit and receive) On-board Oscillator: 3.6864 MHz for standard baud rates External Clock Lines: Four (4) for full-duplex synchronous operation CRC Support: 16- and 32-bit generation and checking Character Configuration: 1–8 bits per character with one address/data bit supportKey Features Per-channel baud rate generator with digital phase-locked loop for clock recovery Sync stripping and preamble generation capabilities Configurable handshake and clock signal support RS-422 transceivers on EIA-485 TxD lines, switchable under software control for transmit or receive operation RS-422 transceivers on TxC lines Independent interrupt vectors and interrupt control per channel User-supplied oscillator provision for non-standard baud ratesTypical Applications Serial protocol conversion, multi-protocol industrial gateways, avionics and defense data interfaces, embedded systems requiring dual synchronous/asynchronous serial channels with hardware protocol acceleration.Compatibility & Integration Designed as an IndustryPack module for integration into carrier boards supporting the IndustryPack standard. Supports full handshake and clock signal interfacing for diverse peripheral devices and synchronous communication systems.

IPMPSERIAL Characteristics / Specifications

PARAMETER	VALUE
Model	IP-MP-Serial
Instrument Type	Dual multiprotocol serial IndustryPack module
Form Factor	IndustryPack mezzanine
Channel Count	2
Interface Eia 2	supported
Interface Eia 4	supported
Protocol Class	high-speed multi-protocol serial
Carrier Compatibility Pci	PCI-60A family
Carrier Compatibility Cpci	cPCI-200A / CPCI-200B family
Host Bus Via Carrier	PCI CompactPCI VME depending on carrier
Product Lineage	Greenspring / SBS / Abaco
I/O Class	asynchronous serial communications
Channel Independence	dual independent ports
Electrical Standards	EIA-232/422/485
Mezzanine Standard	IndustryPack
Typical Use	industrial and embedded serial links
Ordering Name	IP-MP-Serial
Related Carrier Pci Slots	6 on PCI-60A
Related Carrier Cpci Variants	FP and BP I/O routing
Baud Class	high-speed multiprotocol UART family
Connector Class	IndustryPack I/O via carrier transition

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	IP-MP-Serial
Instrument Type	Dual multiprotocol serial IndustryPack module
Form Factor	IndustryPack mezzanine
Channel Count	2
Interface Eia 232	supported
Interface Eia 422	supported
Interface Eia 485	supported
Protocol Class	high-speed multi-protocol serial
Carrier Compatibility Pci	PCI-60A family
Carrier Compatibility Cpci	cPCI-200A / CPCI-200B family
Host Bus Via Carrier	PCI CompactPCI VME depending on carrier
Product Lineage	Greenspring / SBS / Abaco
I/O Class	asynchronous serial communications
Channel Independence	dual independent ports
Electrical Standards	EIA-232/422/485
Mezzanine Standard	IndustryPack
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Ordering Name: IP-MP-Serial	
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Related Carrier Pci Slots	6 on PCI-60A
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Baud Class	high-speed multiprotocol UART family
Connector Class	IndustryPack I/O via carrier transition
Notes	
From Abaco/SBS/Greenspring IP-MP-Serial published product identification as dual EIA-232/422/485 high-speed	

multi-protocol serial IndustryPack. Exact baud tables and FIFO depths belong on the IP hardware reference when not on the short public line.

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.