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Data Sheet

August 15, 2026

ABACO SYSTEMS / SBS / GREENSPRING

Abaco Systems / SBS / Greenspring IP-Octal-422 IndustryPack Module with Eight EIA-422 Asynchronous Serial Ports

IndustryPack module with eight EIA-422 asynchronous serial ports for industrial communication applications.

**MODEL**

Abaco Systems /
SBS / Greenspring
IP-Octal-422

CALIBRATION

Available on
request

CONDITION

Used

STATUS

In stock

RFQ / SKU

IP-Octal-422

LISTING

<https://aumictechlabs.com/products/ip-octal-422-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

Eight-channel serial communication architecture employs a Signetics SCC2698B octal UART controller with integrated 3-character receive FIFOs per channel to buffer incoming data streams and extend interrupt service latency tolerance. The IP-Octal-422 delivers differential EIA-422 signaling across eight independent asynchronous ports within a single-wide Type I IndustryPack form factor. Technical Specifications Eight EIA-422 asynchronous serial ports with differential signaling (RXD+/-, TXD+/-, GND) Signetics SCC2698B octal UART controller with 3-character receive FIFO per channel Eighteen programmable baud rates from 50 bps to 38,400 bps maximum Configurable data format: 5-8 bit characters, programmable parity, 0-2 stop bits in 1/16 increments Four independent 16-bit timer/counters for precise timing operations Eight general-

purpose digital inputs with TTL switching levels (0-5V) Direct Memory Access (DMA) support on channels C and D 32 maskable interrupt sources with vectored handling across IRQ0 and IRQ1 lines Single-wide Type I IndustryPack module compliant with ANSI/VITA-4 standard 50-conductor ribbon cable interface with optional rack-mount connection panel Key Features Receive FIFO buffering prevents data loss during high-latency interrupt scenarios common in real-time industrial systems. Differential EIA-422 signaling maintains signal integrity over extended cable runs up to 1200 meters in electrically noisy environments. DMA capability on two channels reduces CPU overhead for high-throughput data logging applications. Independent timer resources enable precise protocol timing without external clock generation. Vectored interrupt architecture allows deterministic response prioritization across multiple active channels. Typical Applications Industrial automation systems requiring RS-422 connectivity for distributed I/O networks and PLC communication links. Process control installations connecting remote sensor packages and actuator controllers over long-distance serial networks. Military and aerospace systems implementing MIL-STD-1553 protocol conversion and avionics bus interfaces. Manufacturing test equipment requiring multiple simultaneous instrument connections with deterministic timing. Data acquisition systems interfacing legacy serial instruments in laboratory automation environments. Compatibility & Integration Mounts in any ANSI/VITA-4 compliant IndustryPack carrier board including VME, CompactPCI, and PCI-based systems. Software drivers support VxWorks, Linux, and Windows real-time operating systems with direct register access capability. Hardware integrates with existing differential line drivers and requires standard twisted-pair cabling for EIA-422 networks. Module operates from carrier-supplied +5V power with typical consumption under 2W during full eight-channel operation.

IPOCTAL422 Characteristics / Specifications

PARAMETER	VALUE
Model	IP-Octal-422
Instrument Type	eight port RS-422 IndustryPack
Card Format	single wide IndustryPack ANSI VITA 4
Serial Ports	8
Interface Standard	EIA-422 asynchronous
Uart Device Family	Signetics SCC2698B octal UART
Receiver Fifo Depth	3 characters per channel
Baud Rates Programmable	18 rates
Baud Rate Maximum	38.4 kbps
Data Format	programmable bit length parity and stop bits
Module Width	single wide
Mezzanine Standard	ANSI VITA 4 IndustryPack
Catalog Description	general purpose async 422
Related Sibling Models	IP-Octal-232 IP-Octal-485 IP-Octal-423
Carrier Interface	IndustryPack logic interface
Signaling Type	balanced differential
Port Density	8 ports per single-wide IP
Framing Controls	programmable parity and stop bits
Dimensions Typical Ip	1.800 by 3.900 by 0.340 inches maximum
Logic Connector	IndustryPack logic interfaceIOConnector: IndustryPack 50-pin I/O class
Module Width Class	single wide unless noted
Typical Length	3.900 inches
Typical Width	1.800 inches

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	
From Greenspring catalog and Artisan IP-Octal-422 family descriptions shared with the IP-Octal serial architecture. Verify exact modem-control pin availability on the OEM pinout for this SKU.	

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.