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**Data Sheet**

August 15, 2026

ABACO SYSTEMS / SBS / GREENSPRING

# Abaco Systems / SBS / Greenspring IP-OctalPlus485 IndustryPack Module

The IP-OctalPlus485 is an IndustryPack (IP) module from Abaco Systems (formerly SBS and Greenspring) providing eight independent RS-485 serial communication ports.

**MODEL****Abaco Systems /  
SBS / Greenspring  
IP-OctalPlus485****CALIBRATION****Available on  
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****IP-OctalPlus485****LISTING**<https://aumictechlabs.com/products/ip-octalplus485-2/>

NIST-traceable cal

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NAICS 423690 • 811210 • 541380

## This unit

The Abaco Systems IP-OctalPlus485 is a single-wide Type I IndustryPack module that provides eight independent RS-485 serial communication ports for embedded systems requiring expanded asynchronous serial connectivity. Built around the Signetics SCC2698B octal UART, the module integrates 3-character receiver FIFO buffers per channel to reduce interrupt handling latency and improve system responsiveness. Programmable baud rates, bit lengths, parity, and stop bits allow configuration across diverse communication protocols and legacy serial interfaces. Technical Specifications Form Factor: Single-wide Type I IndustryPack IndustryPack Standard: ANSI/VITA-4 compliant Serial Ports: 8 independent asynchronous RS-485 channels UART Chipset: Signetics SCC2698B Signaling: DX+, DX-, GND per channel Baud Rates: Programmable in 18 steps, maximum 38.4 kbps Receiver FIFO: 3 characters per channel Transmitter FIFO: None Independent

Timers: 4 × 16-bit Interrupt Sources: 32, maskable, vectored Dimensions: 1.8 inches × 3.9 inches  
Weight: 0.06 kg (0.1 lb) Power: +5 VDC, 285 mA typical Operating Temperature: +10 to +50 °C  
Storage Temperature: -40 to +85 °C Humidity: 5 to 95% non-condensing Key Features Eight  
independent RS-485 communication channels FIFO buffering on receiver side for reduced  
interrupt latency Four independent 16-bit timers for protocol timing and synchronization 32  
maskable, vectored interrupt sources Programmable serial parameters (baud, bits, parity, stop  
bits) Low power consumption at 285 mA typical Compact footprint suitable for space-constrained  
embedded platforms Compatibility & Integration The module complies with ANSI/VITA-4  
IndustryPack standards and integrates into compatible carrier systems. Transition modules are  
available offering rack-mountable and 6U configurations with DB9, 25D, RJ45, and RJ11 connector  
options. Note: Systems requiring interrupt vector use with carriers lacking ID PROM write  
capability (such as MVME162) will consume IndustryPack memory space.

## IPOCTALPLUS485 Characteristics / Specifications

| PARAMETER             | VALUE                                                                  |
|-----------------------|------------------------------------------------------------------------|
| Model                 | IP-OctalPlus485                                                        |
| Instrument Type       | eight port RS-485 IndustryPack with deep FIFOs                         |
| Card Format           | single wide IndustryPack ANSI VITA 4                                   |
| Serial Ports          | 8                                                                      |
| Interface Standard    | EIA-485 asynchronous                                                   |
| Fifo Class            | deep FIFOs per Greenspring catalog                                     |
| Module Width          | single wide                                                            |
| Mezzanine Standard    | ANSI VITA 4 IndustryPack                                               |
| Catalog Category      | Serial Communication Modules                                           |
| Related Base Model    | IP-Octal 485                                                           |
| Related Plus Family   | IP-OctalPlus-232 IP-OctalPlus-422                                      |
| Carrier Interface     | IndustryPack logic interface                                           |
| Port Density          | 8 ports per module                                                     |
| Signaling Type        | balanced differential multipoint capable                               |
| Product Line          | Greenspring SBS Abaco IndustryPack serial                              |
| Dimensions Typical Ip | 1.800 by 3.900 by 0.340 inches maximum                                 |
| Async Operation       | general purpose asynchronous                                           |
| Family Baud Class     | programmable baud rates per Octal family                               |
| Framing Class         | programmable bit length parity stop bits                               |
| 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                                                           |

# IPOCTALPLUS485 Specifications

| PARAMETER                               | VALUE                                                                                                                              |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Applications                            | Busy multi-drop RS-485 plants, high interrupt latency hosts, and dense differential serial concentration on IndustryPack carriers. |
| Key Features                            | Eight EIA-485 asynchronous ports                                                                                                   |
| Family baud and framing programmability | ANSI VITA 4 carrier compatibility                                                                                                  |
| Technical Specifications                | Model: IP-OctalPlus485                                                                                                             |

# 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-OctalPlus485                                                        |
| Instrument Type                                                                                                                                                                            | eight port RS-485 IndustryPack with deep FIFOs                         |
| Card Format                                                                                                                                                                                | single wide IndustryPack ANSI VITA 4                                   |
| Serial Ports                                                                                                                                                                               | 8                                                                      |
| Interface Standard                                                                                                                                                                         | EIA-485 asynchronous                                                   |
| Fifo Class                                                                                                                                                                                 | deep FIFOs per Greenspring catalog                                     |
| Module Width                                                                                                                                                                               | single wide                                                            |
| Mezzanine Standard                                                                                                                                                                         | ANSI VITA 4 IndustryPack                                               |
| Catalog Category                                                                                                                                                                           | Serial Communication Modules                                           |
| Related Base Model                                                                                                                                                                         | IP-Octal 485                                                           |
| Related Plus Family                                                                                                                                                                        | IP-OctalPlus-232 IP-OctalPlus-422                                      |
| Carrier Interface                                                                                                                                                                          | IndustryPack logic interface                                           |
| Port Density                                                                                                                                                                               | 8 ports per module                                                     |
| Signaling Type                                                                                                                                                                             | balanced differential multipoint capable                               |
| Product Line                                                                                                                                                                               | Greenspring SBS Abaco IndustryPack serial                              |
| Dimensions Typical Ip                                                                                                                                                                      | 1.800 by 3.900 by 0.340 inches maximum                                 |
| Async Operation                                                                                                                                                                            | general purpose asynchronous                                           |
| Family Baud Class                                                                                                                                                                          | programmable baud rates per Octal family                               |
| Framing Class                                                                                                                                                                              | programmable bit length parity stop bits                               |
| 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                                                           |
| Notes                                                                                                                                                                                      |                                                                        |
| From Greenspring Computers product catalog table for IP-OctalPlus485. Exact FIFO depth bytes and maximum baud for the Plus silicon belong on the OEM datasheet for the installed revision. |                                                                        |

### Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: [sales@aumictech.com](mailto:sales@aumictech.com) · +1 (484) 841-9341

#### Aumictech

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NIST-traceable calibration · SAM registered ·  
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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.