

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 15, 2026

ABACO SYSTEMS / SBS / GREENSPRING

Abaco Systems / SBS / Greenspring IP-Quad Four-Channel IndustryPack Module

Abaco Systems / SBS / Greenspring Data Acquisition Systems (DAQ). Four-channel IndustryPack module.

**MODEL****Abaco Systems /
SBS / Greenspring
IP-Quad****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****IP-Quad****LISTING**[https://aumictechlabs.c
om/products/ip-quad-
2/](https://aumictechlabs.com/products/ip-quad-2/)

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Abaco Systems IP-Quad is a single-wide IndustryPack module delivering four independent channels of quadrature decoding and general-purpose counting. Each channel provides 24-bit resolution across a 0 to 10 MHz count frequency range. The module accepts differential or single-ended inputs via RS-422 or TTL/CMOS logic levels, with programmable polarity, mode selection, and TTL resistor termination. Read-on-the-fly capability enables real-time counter access without halting operation. State change detection logic and full modem control line support enhance integration flexibility. Built on the Signetics CMOS SCC2698B architecture, the IP-Quad delivers high-density I/O expansion for embedded systems requiring precision timing and counting functions. The module entered Restricted Production Phase status as of December 31, 2016. Technical Specifications Four independent channels 24-bit resolution per channel 0 to 10

MHz count frequency Differential or single-ended input configuration RS-422 and TTL/CMOS signal compatibility Programmable modes and polarity Programmable TTL resistor termination Full programmable interrupt support Read-on-the-fly capability State change detect logic Full modem control line support

Key Features Single-wide IndustryPack form factor for compact carrier integration Flexible input termination and signal conditioning Real-time counter readback without operation interruption Comprehensive interrupt-driven architecture Modem control signaling for handshake and flow management

Typical Applications Precision motion control and encoder feedback Industrial process timing and event counting Test and measurement data acquisition Embedded system I/O expansion

Compatibility & Integration The IP-Quad adheres to VITA IndustryPack specifications, ensuring compatibility with standard carrier boards and third-party equipment. Single-wide module design allows flexible multi-module configurations within compatible carrier systems. Documentation and software resources are available through the manufacturer's website.

IPQUAD Characteristics / Specifications

PARAMETER	VALUE
Model	IP-Quad
Instrument Type	multi-channel IndustryPack module
Card Format	single wide IndustryPack ANSI VITA 4
Module Width	single wide
Mezzanine Standard	ANSI VITA 4 IndustryPack
Carrier Interface	IndustryPack logic interface
Product Line	Greenspring SBS Abaco IndustryPack
Related Distinct Model	IP-Quadrature encoder decoder
Catalog Form	IndustryPack modular I/O
Operating Class	commercial IndustryPack module
Host Bus Width Class	IndustryPack 16-bit style logic interface
Id Prom	IndustryPack ID PROM supported class
Dimensions Typical Ip	1.800 by 3.900 by 0.340 inches maximum
Connector Class	IndustryPack I/O and logic connectors
Mechanical Height Class	single wide IP
Family Brand Path	Greenspring to SBS to Abaco
Integration Class	carrier hosted mezzanine I/O
Configuration Class	module specific function set
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
Typical Thickness Max	0.340 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	
Specifications	
PARAMETER	VALUE
Model	IP-Quad
Instrument Type	multi-channel IndustryPack module
Card Format	single wide IndustryPack ANSI VITA 4
Module Width	single wide
Mezzanine Standard	ANSI VITA 4 IndustryPack
Carrier Interface	IndustryPack logic interface
Product Line	Greenspring SBS Abaco IndustryPack
Related Distinct Model	IP-Quadrature encoder decoder
Catalog Form	IndustryPack modular I/O
Operating Class	commercial IndustryPack module
Host Bus Width Class	IndustryPack 16-bit style logic interface
Id Prom	IndustryPack ID PROM supported class
Dimensions Typical Ip	1.800 by 3.900 by 0.340 inches maximum
Connector Class	IndustryPack I/O and logic connectors
Mechanical Height Class	single wide IP
Family Brand Path	Greenspring to SBS to Abaco
Integration Class	carrier hosted mezzanine I/O
Configuration Class	module specific function set
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
Typical Thickness Max	0.340 inches
Notes	
IP-Quad is distinct from IP-Quadrature. Channel-level electrical tables must be taken from the OEM datasheet for the exact IP-Quad assembly revision; do not assume encoder specs.	

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.