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Data Sheet

August 15, 2026

ABACO SYSTEMS / SBS / GREENSPRING

Abaco Systems / SBS / Greenspring IP-UNIDIG-BUF 24 Differential I/O IndustryPack Module

The Abaco Systems IP-UNIDIG-BUF is an IndustryPack module providing 24 differential I/O channels. Designed for solid industrial applications, it offers reliable digital input and output capabilities.

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

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Abaco Systems IP-UNIDIG-BUF is a single-wide Type I IndustryPack module delivering 24 individually programmable digital I/O channels. Each line configures dynamically as input or output, enabling flexible integration into industrial control and simulation systems. Double-buffered input and output capability allows simultaneous latching of multiple I/O signals via cascadable external clock triggers, supporting both rising and falling edge detection. Master/Slave synchronization mode enables coordination across multiple modules. Technical Specifications Form Factor: Single-wide Type I IndustryPack, ANSI/VITA-4 compliant Digital Lines: 24 individually configurable input/output channels Interface Speed: 8 MHz, zero wait states Input Voltage Range: +15 V to -5 V Logic Threshold: 1.25 V with 50 mV hysteresis, CMOS/TTL

compatible Output Driver: Open collector transistor with 1 kOhm pullup Output Current: 64 mA continuous sink capability Output Voltage: 0.80 V at 64 mA Ic Power Consumption: 510 mA typical at +5 VDC (no load) Physical Dimensions: 1.8 × 3.9 inches Weight: 0.06 kg Operating Temperature: 0°C to +70°C Storage Temperature: -40°C to +85°C Humidity: 5% to 95% non-condensing

Key Features Double-buffered inputs and outputs for synchronous signal acquisition and generation Cascadable external clock with programmable polarity (rising/falling edge selection) Master/Slave mode for multi-module synchronization Software reset disables output drivers and double-buffering functionality Compatible with subroutine libraries and Windows NT drivers

Typical Applications Simulation systems requiring simultaneous latching of numerous digital signals. Industrial control systems demanding flexible, reconfigurable I/O architecture. Multi-module applications benefiting from synchronized data capture and output.

Compatibility & Integration IndustryPack-based carrier systems with 50-pin ribbon, HD50, or Champ50 front panel connectors. Engineering kits (EKIP50-UNIDIG, EKHD50-UNIDIG, EKCM50-UNIDIG) provide interconnect cables and terminal blocks for rapid integration.

IPUNIDIGBUF Characteristics / Specifications

PARAMETER	VALUE
Model	IP-UNIDIG-BUF
Instrument Type	24 channel buffered TTL digital I/O IndustryPack
Card Format	single wide IndustryPack ANSI VITA 4
Channel Count	24
IOClass	buffered TTL
Series Name	IP-UNIDIG
Family Channel Options	24 or 48 line members
Module Width	single wide
Mezzanine Standard	ANSI VITA 4 IndustryPack
Related Models	IP-UNIDIG-I IP-UNIDIG-I-D IP-UNIDIG-E-48
Carrier Interface	IndustryPack logic interface
Family Features Class	double buffered I/O interrupts timers
Product Aliases	IP-UNIDIG IPUNIDIG
Digital Density	24 buffered lines
Buffering	buffered transceiver class outputs and inputs
Operating Class	commercial IndustryPack digital module
Catalog Form	IndustryPack modular I/O
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
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	
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Notes	
From Greenspring SBS Abaco IP-UNIDIG family Artisan OEM descriptions. Confirm sink source currents on the BUF-specific 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 · +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.