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Data Sheet

August 15, 2026

ABACO SYSTEMS / SBS / GREENSPRING

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

IndustryPack module with 24 differential digital I/O channels. Designed for industrial applications.

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

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The IP-UNIDIG-I-D is a single-wide IndustryPack module delivering 24 differential digital I/O channels for industrial data acquisition and control systems. Each channel configures independently as input or output, with double-buffered outputs and programmable interrupt capability on any input line. The module supports Master/Slave synchronization across multiple IndustryPacks and meets EIA-422 and EIA-485 differential signaling standards with extended common-mode range. Technical Specifications Digital I/O Architecture 24 differential channels, individually programmable as input or output Double-buffered outputs with optional input/output double-buffering for simulation compatibility External clock triggers with selectable polarity for buffer synchronization Any input line capable of generating interrupts Master/Slave mode: Master unit drives external clock source to I/O line 23; Slave units receive synchronization clock on I/O

line 24 Reset disables output drivers and double-buffering for consistent software state Electrical Performance Input voltage range: +15 V / -5 V maximum Common-mode range: +12 V to -7 V (EIA-422/EIA-485 extended spec) Logic threshold: 1.25 V for direct CMOS/TTL compatibility Output sink current: 64 mA continuous per channel Output control: 24-bit register; writing "0" enables driver, "1" places line in high-Z state (power-up default) Termination: Socketed resistors across differential pairs; 100 Ω factory default, user-configurable Key Features EIA-422 and EIA-485 differential input compliance with extended common-mode immunity Per-channel output driver gating via dedicated control register Synchronization primitives for multi-module timing coherence TTL-level input threshold for legacy system integration Factory-installed 100 Ω termination resistors; user-replaceable socketed design Typical Applications Multi-channel differential signal acquisition in industrial control, motor drive feedback, sensor interfacing, and real-time simulation environments requiring phase-locked I/O across distributed modules. Compatibility & Integration Supported by Windows NT driver software and subroutine library. Single-wide IndustryPack form factor for mezzanine carrier board integration.

IPUNIDIGID Characteristics / Specifications

PARAMETER	VALUE
Model	IP-UNIDIG-I-D
Instrument Type	24 channel differential digital I/O IndustryPack
Card Format	single wide IndustryPack ANSI VITA 4
Channel Count	24
IOClass	differential
Family Channel Options	24 or 48 line family members
Interrupt Support	yes
Series Name	IP-UNIDIG
NsN Reference	5998-01-492-8457
Module Width	single wide
Mezzanine Standard	ANSI VITA 4 IndustryPack
Related Models	IP-UNIDIG-I IP-UNIDIG-BUF IP-UNIDIG-E IP-UNIDIG-HV
Carrier Interface	IndustryPack logic interface
Family Features Class	double buffered I/O and timers in series
Product Aliases	IP-UNIDIG IPUNIDIG IP UNIDIG
Digital Density	24 differential lines
Operating Class	commercial IndustryPack digital module
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-I-D Artisan OEM family description. Electrical levels and differential swing limits belong on the OEM datasheet PDF 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.