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Data Sheet

August 15, 2026

ABACO SYSTEMS / SBS / GREENSPRING

Abaco Systems / SBS / Greenspring IP-TTL48-8 48-Channel TTL Digital I/O IndustryPack Module

48-channel TTL digital I/O IndustryPack module. Provides a flexible interface for digital input and output applications.

**MODEL****Abaco Systems /
SBS / Greenspring
IP-TTL48-8****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****IP-TTL48-8****LISTING**[https://aumictechlabs.c
om/products/ip-ttl48-8
-2/](https://aumictechlabs.com/products/ip-ttl48-8-2/)

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Abaco Systems IP-TTL48-8 is a 48-channel TTL digital I/O IndustryPack module engineered for flexible input/output applications requiring individual line control and synchronized buffering. Built on six 74HCT652 transceiver chips, this single-wide module delivers 48 independently configurable TTL lines with double-buffered input and output capability - essential for simulation systems that demand simultaneous latching across multiple channels. Technical Specifications I/O Channels: 48 TTL digital I/O lines Transceiver Architecture: (6) 74HCT652 transceiver chips Form Factor: Single-wide IndustryPack module Dimensions: 4 × 2 × 1 in Weight: 2 lbs Interface Connector: 50-conductor flat cable Counters: Two 24-bit synchronous counters Key Features Each line dynamically configurable as input or output on a per-bit basis Double-buffered input and output for synchronized signal capture and generation Individual line access as discrete bits or

grouped bytes LineSafe ESD protection on all I/O lines Interrupt generation capability per line
Tristate digital I/O lines with pullups availableTypical Applications Digital control and monitoring in
test, measurement, and industrial automation systems. Particularly suited for applications
requiring synchronized multi-channel I/O switching, equipment interfacing, and real-time digital
signal handling in simulation and hardware-in-the-loop environments.Compatibility & Integration
Drop-in replacement for the IP-DIGITAL-48. Operates within the IP-TTL48 series ecosystem.
Mounts on standard IndustryPack carrier boards. Windows NT drivers supported.

IPTTL48 Characteristics / Specifications

PARAMETER	VALUE
Model	IP-TTL48-8
Instrument Type	48-channel TTL digital I/O IndustryPack
Card Format	single wide IndustryPack ANSI VITA 4
Digital Channels	48
Transceiver Devices	6
Transceiver Type	74HCT652
Logic Family	TTL via HCT652 transceivers
Series Name	IP-TTL48
Related Series Member	IP-TTL48-32
Module Width	single wide
Mezzanine Standard	ANSI VITA 4 IndustryPack
Carrier Interface	IndustryPack logic interfaceIOClass: bidirectional TTL digital
Channel Density	48 channels per module
Device Count	six transceiver ICs
Product Family	Greenspring SBS Abaco IndustryPack digital
Dimensions Typical Ip	1.800 by 3.900 by 0.340 inches maximum
Electrical Interface	TTL compatible transceiver ports
Catalog Form	Standard Industry Pack Module
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 SBS Abaco IP-TTL48-8 Artisan OEM description. Drive current per pin and direction register map belong on the OEM user manual 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.