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Data Sheet

August 15, 2026

ABACO SYSTEMS / SBS / GREENSPRING

Abaco Systems / SBS / Greenspring IP-1553 IndustryPack Module with Complete Dual-Redundant MIL-STD-1553B Bus Terminal

IndustryPack module with dual-redundant MIL-STD-1553B bus terminal interface. Provides complete Bus Controller, Remote Terminal, and Bus Monitor functionality.

**MODEL**

Abaco Systems /
SBS / Greenspring
IP-1553

CALIBRATION

Available on
request

CONDITION

Used

STATUS

In stock

RFQ / SKU

IP-1553

LISTING

<https://aumictechlabs.com/products/ip-1553-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Abaco Systems IP-1553 is a single-wide IndustryPack module delivering dual-redundant MIL-STD-1553B bus terminal functionality for embedded avionics, defense, and industrial systems. It implements Bus Controller, Remote Terminal, and Bus Monitor modes with support for MIL-STD-1553A and MIL-STD-1553B (Notice II) protocols, operating at a 16 MHz master clock derived from the IndustryPack 8 MHz reference. Technical Specifications Bus Standard Compliance: MIL-STD-1553A and MIL-STD-1553B (Notice II) Operating Modes: Bus Controller (BC), Remote Terminal (RT) with support for up to 31 RTs, Bus Monitor (BM) Memory Architecture: 8 K bytes shared memory (4K 16-bit words) message space; 8 K bytes dual-ported RAM per channel Timestamp Resolution: 48-bit timetags for message event recording Maximum Data Rate: 1 MHz Master Clock: 16 MHz (derived from IndustryPack 8 MHz clock) Operating Temperature: 0°C to 70°C

standard; extended temperature and 883B qualified components available on special order

Module Format: Single-wide IndustryPack

Key Features

Dual-Redundant Bus Interface: Supports both direct coupled (short stub) and transformer coupled (long stub) configurations; transformer coupling is standard

Configuration Variants: BC/MT/RT, BC/MT/RT with RT latch, RT only, and RT only with RT latch options

Flexible RT Addressing: RT latch capability allows software-programmable RT address assignment

Standard Cable Supplied: Short stub adapter cable included

High-Level API: Accelerated application development support

Driver Availability: Windows 2000/ME/NT/98/95, VxWorks, LabWindows/CVI, Visual Basic, and DOS drivers provided with integrated carrier board solutions

Optional Software: LabVIEW support and BusTools/1553 GUI bus analysis and simulation tool

Typical Applications Avionics systems, defense platforms, industrial process control, and embedded systems requiring reliable 1553B bus communication with redundancy and flexible terminal configuration.

Compatibility & Integration Mounts on IndustryPack carrier boards. Engineering kit available for systems using Champ50 front panel I/O connectors; includes hardware manual, transition module, Twinax connectors, terminators, cable, and source code examples.

IP1553 Characteristics / Specifications

PARAMETER	VALUE
Model	IP-1553
Instrument Type	dual-redundant MIL-STD-1553B IndustryPack terminal
Card Format	single wide IndustryPack ANSI VITA 4
Bus Standard	MIL-STD-1553B
Redundancy	dual redundant
Shared Memory Size	8 Kbytes
Shared Memory Organization	4K by 16-bit words
Protocol Engine	DDC fifth generation ACE series hybrid
Coupling Standard	transformer coupling
Ip Clock	8 MHz
Derived 1553 Clock	16 MHz from IP 8 MHz clock
Operational Registers	17 by 16-bit
Test Registers	8
Interrupt Vector Register	8-bit
Interrupt Control Bits	16
Host Wait States Typical	3
Shared Memory Max Wait	2.6 us
Operating Temperature Standard	0 to 70 C
Module Width	single wide
Memory Map Space	IndustryPack Memory Space for 4 Kwords
Data Path Width Host	16-bit
Variants	BC/MT/RT BC/MT/RT with RT latch RT only RT only with RT latch
Mezzanine Standard	ANSI VITA 4 IndustryPack
Logic Connector	IndustryPack logic interface
Operating temperature	Standard: 0 to 70 C

IP1553 Specifications

PARAMETER	VALUE
Applications	Avionics MIL-STD-1553 BC RT and monitor roles, aerospace ATE, and embedded 1553 interfaces on IndustryPack carriers.
Key Features	Complete dual-redundant MIL-STD-1553B terminal on one IP
Technical Specifications	Model: IP-1553

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	is 0 to 70 C.
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PARAMETER	VALUE
Logic Connector	IndustryPack logic interface Notes From Greenspring SBS Abaco IP-1553 Artisan OEM description. RT address latch behavior and notice level compliance belong on the OEM datasheet for the exact variant.

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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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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<https://aumictechlabs.com>

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.