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Data Sheet

August 2, 2026

ASTRONICS / BALLARD TECHNOLOGY

Astronics / Ballard Technology PC1553-3C MIL-STD-1553 Interface

Astronics / Ballard Technology Embedded Test Systems. Channels: ** Dual-redundant MIL-STD-1553.



MODEL

**Astronics / Ballard
Technology
PC1553-3C**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

PC1553-3C

LISTING

<https://aumictechlabs.com/products/pc1553-3c-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Astronics/Ballard Technology PC1553-3C is a MIL-STD-1553B interface card for ISA-based IBM-PC/AT systems, enabling avionics, military, and aerospace applications to interface with MIL-STD-1553 buses. The card provides dual-redundant channels supporting concurrent operation as bus controller, remote terminal, or monitor, with integrated error injection and extensive monitoring capabilities. Technical Specifications Interface: MIL-STD-1553B Host Bus: ISA (IBM-PC/AT compatible) Channels: Dual-redundant MIL-STD-1553 On-board RAM: 256 KB to 1 MB (configuration dependent) Time-Stamp: Programmable 32-bit Characteristic Impedance: 70.0 to 85.0 ohms at 1.0 MHz (per MIL-STD-1553B) Discrete I/O: 8 avionics-level input/output discretes Connectors: BNC front connectors (select variants) Dimensions: 3.0 × 4.45 × 0.97 inches (76 × 113 × 25 mm) Weight: Under 5 oz (140 g) Key Features Supports all MIL-STD-1553 message types

Single and multiple terminal configurations Error injection capability (advanced models)
Transformer and direct-coupled stub options; transformer coupling required for Army/Air Force applications, optional for Navy Power on/off noise: ± 250 mV peak line-to-line (transformer coupled), ± 90 mV peak line-to-line (direct coupled) Unused terminal connections feature minimum 75% shielding coverage Compatibility & Integration Windows, Linux, and Solaris OS driver support Universal BTIDriver API for C/C++, C#, VB, VB.NET, and LabVIEW Software compatible with PC1553-2 Translation DLLs available for legacy Ballard devices Optional CoPilot analysis and test software Note: The PC1553-3C is obsolete per manufacturer status; availability through third-party suppliers may vary.

Features & description

From manufacturer datasheet

Features

- Legacy ISA/PC-class MIL-STD-1553 interface (PC1553-3 family)
- Dual-redundant 1553 interface architecture
- Bus controller, remote terminal, and monitor class functions (family)
- Concurrent monitor and error injection (family options)
- Programmable 32-bit time-stamp (family)
- Software compatible with PC1553-2
- Related: PC1553-3A; LP1553-3A/3C PCI successors

PC15533C Characteristics / Specifications

PARAMETER	VALUE
Model	PC1553-3C
Manufacturer	Astronics Ballard Technology
Instrument Type	ISA MIL-STD-1553 interface board
Protocol	MIL-STD-1553B
Host Bus	ISA (PC/AT compatible)
Functions	BC / RT / Monitor (configuration dependent)
Memory	about 256 KB to 1 MB on-board RAM (family class; confirm on unit)
Terminals	single/multiple simultaneous terminals (model dependent—confirm 3C vs 3A)
Time Stamp	programmable 32-bit (family)
Related Models	PC1553-3A; LP1553-3C (PCI class successor family) Standard Operating Conditions Install in compatible ISA/PC slot with proper 1553 coupling/transformers and bus termination. Use Ballard drivers for the installed OS revision. Observe ESD and avionics grounding practices.
Related	PC1553-3A; LP1553-3A/3C PCI successors

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	PC1553-3C
Manufacturer	Astronics Ballard Technology
Instrument Type	ISA MIL-STD-1553 interface board
Protocol	MIL-STD-1553B
Host Bus	ISA (PC/AT compatible)
Functions	BC / RT / Monitor (configuration dependent)
Memory	about 256 KB to 1 MB on-board RAM (family class; confirm on unit)
Terminals	single/multiple simultaneous terminals (model dependent-confirm 3C vs 3A)
Time Stamp	programmable 32-bit (family)
Related Models	PC1553-3A; LP1553-3C (PCI class successor family)

Standard Operating Conditions

Install in compatible ISA/PC slot with proper 1553 coupling/transformers and bus termination. Use Ballard drivers for the installed OS revision. Observe ESD and avionics grounding practices.

Operational Notes

PC1553-3C is legacy ISA hardware-confirm host OS/driver support before purchase. Do not assume PC1553-3C matches PC1553-3A terminal/RAM counts without reading the faceplate label and configuration part number (dealer examples show wide family spread).

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.