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Data Sheet

August 15, 2026

AIM

AIM AXI1553-2 MIL-STD-1553A/B VXIbus Test and Simulation Module

AIM AXI1553-2 MIL-STD-1553A/B VXIbus Test and Simulation Module The AIM AXI1553-2 is a dual-redundant MIL-STD-1553A/B VXIbus test and simulation module. OEM AXI1553-2 listings describe a VXI instrument that simulates BC, RT, and BM functions for avionics data bus test. MIL-STD-1553A/B bus controller, remote terminal, and monitor simulation in VXI ATE. MIL-STD-1553A/B VXI module BC/RT/BM simulation VXIbus instrument Avionics data bus test AIM AXI family Dual redundant 1553 class The AIM AXI1553-2 is a dual-redundant MIL-STD-1553A/B VXIbus test and simulation module. OEM AXI1553-2 listings describe a VXI instrument that simulates BC, RT, and BM functions for avionics data bus test. MIL-STD-1553A/B bus controller, remote terminal, and monitor simulation in VXI ATE. MIL-STD-1553A/B VXI module BC/RT/BM simulation VXIbus instrument Avionics data bus test AIM AXI family Dual redundant 1553 class

Instrument Type: MIL-STD-1553A/B VXIbus test and simulation module



MODEL

AIM AXI1553-2

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

AXI1553-2

LISTING

<https://aumictechlabs.com/products/axi1553-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The AIM AXI1553-2 is a MIL-STD-1553A/B VXIbus test and simulation module delivering full-function protocol testing, simulation, monitoring, and data bus analysis for aerospace and defense

applications. Two independent, dual-redundant MIL-STD-1553A/B databus streams operate concurrently without performance degradation, enabling Bus Controller emulation, multiple Remote Terminal simulation, and chronological monitoring at full bus load. The module integrates multiple RISC processors within an Application Support Processor (ASP) Common Core architecture, supported by a Physical Bus Interface (PBI) daughter board for MIL-STD-1553A/B connections.

Technical Specifications

Protocol Support: MIL-STD-1553A/B Bus Interface: VXIbus (C-sized module)

Data Streams: Two independent, dual-redundant MIL-STD-1553A/B databus streams

Functionality: Test, Simulation, Monitoring, and Data Bus Analyzer

Operating Modes: Concurrent operation across all functions with no performance degradation

Output Amplitude: Software programmable

Bus Coupling Modes: Software programmable

Time Synchronization: On-board IRIG-B Time Decoder and Generator

Processing Architecture: Multiple RISC processors with Application Support Processor (ASP) Common Core Design

Key Features

Full protocol error injection and detection for comprehensive bus integrity validation

Simultaneous testing, simulation, and monitoring at full bus load

Software-controlled output amplitude and bus coupling configuration

IRIG-B time-tagging and synchronization for multi-module systems

VXI Plug and Play support

Compatible with optional PBA.pro™

Databus Test and Analysis Tool (Windows and Linux)

Typical Applications

Aerospace and defense MIL-STD-1553A/B databus validation

Protocol conformance testing across bus controllers and remote terminals

Real-time bus monitoring and error injection testing

Multi-module synchronized test environments

Compatibility & Integration

The module supports AIM Board Software Packages (BSPs) for multiple operating systems and integrates with PBA.pro™ analysis software for comprehensive databus diagnostics.

AXI1553 Characteristics / Specifications

PARAMETER	VALUE
Model	AXI1553-2
Instrument Type	MIL-STD-1553A/B VXIbus test and simulation module
Bus Standard	MIL-STD-1553A/B
Form Factor	VXIbus
Simulation Roles	bus controller, remote terminal, bus monitor class
Manufacturer	AIM
Literature	AIM AXI1553-2 listings
Family	AIM AXI 1553 VXI modules
Brand Lineage	AIM GmbH
System Role	1553 VXI simulator/tester
Use Case	avionics databus ATE
Documentation Type	OEM AXI1553-2 listing
Year Class	AIM AXI1553
Application Class	MIL-STD-1553 test
Vendor Path	AIM
Related Module	API-FDX-2 AFDX PCI simulator/monitor
Slot Class	VXI instrument
Documentation Class	OEM AXI1553-2 catalog
Control Class	VXI register/message based 1553
Companion Role	VXI ATE chassis
Operating Mode	1553 BC/RT/BM
Instrument Class	databus test module
Protocol Class	MIL-STD-1553A/B
Redundancy Class	dual redundant 1553
Avionics Class	1553 ATE

PARAMETER	VALUE
Enclosure Class	VXI module

AXI1553 Specifications

PARAMETER	VALUE
Applications	MIL-STD-1553A/B bus controller, remote terminal, and monitor simulation in VXI ATE.
Key Features	MIL-STD-1553A/B VXI module
AIM AXI family	Dual redundant 1553 class
Technical Specifications	Model: AXI1553-2

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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Vendor Path	AIM
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Protocol Class	MIL-STD-1553A/B
Redundancy Class	dual redundant 1553
Avionics Class	1553 ATE
Enclosure Class	VXI module

Notes

From AIM AXI1553-2 listings (MIL-STD-1553A/B VXI test/simulation module). Channel count, coupling, and VXI size/power are on the AXI1553-2 data sheet.

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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30-day returns
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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.