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Data Sheet

August 15, 2026

ASTRONICS / EADS / TALON INSTRUMENTS

Astronics / EADS / Talon Instruments 2108 VXI Serial Bus Emulator

Astronics Talon EADS 2108 VXI Serial Bus Emulator The Astronics/EADS/Talon Instruments 2108 isaVXI serial bus emulator module for stimulating and monitoring serial protocols in avionics and ATS environments. OEM Talon/EADS VXI module literature describes multi-protocol serial emulation in a VXI slot. Serial bus emulation for TPS, avionics interface stimulation, and automated functional test of serial peripherals. Supports stimulus and response class serial traffic The Astronics/EADS/Talon Instruments 2108 isaVXI serial bus emulator module for stimulating and monitoring serial protocols in avionics and ATS environments. OEM Talon/EADS VXI module literature describes multi-protocol serial emulation in a VXI slot. Serial bus emulation for TPS, avionics interface stimulation, and automated functional test of serial peripherals. Supports stimulus and response class serial traffic

Channel Class: multi serial channel class OEM

**MODEL****Astronics / EADS /
Talon Instruments
2108****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****2108****LISTING**[https://aumictechlabs.c
om/products/2108-2/](https://aumictechlabs.com/products/2108-2/)

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SAM registered

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NAICS 423690 • 811210 • 541380

This unit

The Astronics/EADS/Talon Instruments 2108 is a VXI-based serial bus emulator and analyzer designed for real-time simulation, characterization, and stress testing of serial communication

interfaces. Operating as a register-based VXI module, it supports up to four independent transmit and/or receive channels per slot, each capable of emulating industry-standard protocols including SONET, T1/DS1, RS-422/485, USB, IEEE-1394, Ethernet, MIL-STD-1553, and custom serial buses. The instrument analyzes serial buses up to 200 MHz and supports signal levels to 15 V. Technical Specifications Channel Configuration: Up to 4 transmit and/or receive channels per VXI slot, independently addressable Analysis Bandwidth: Serial buses up to 200 MHz Voltage Support: Up to 15 V Buffer Architecture: Dual 4 Meg ping-pong buffers enabling continuous real-time data transfer and fast VXI controller communication Protocol Emulation: SONET, T1/DS1, RS-422/485, USB, IEEE-1394, Ethernet, MIL-STD-1553, and custom/modified serial buses Data Patterns: Pre-defined custom waveforms of variable length, Pseudo Random Bit Sequences (4 to 65535 bit times), user-defined data (4 to 48 bits) Transmit/Receive Modes: Binary, Binary plus tri-state, Binary plus user-defined state, Binary plus error state Encoding: Standard encoding and formatting schemes with on-the-fly parity calculation for 8-bit words Key Features Integrated serial logic analyzer for real-time data viewing and event searching by trigger counts or patterns Margin and limit testing via imposed impairments on data, clock, and control lines GUI-based programming, analysis, and debugging environment Template-based data alignment and display configuration Modular UUT I/O transmit and receive modules connected via front panel connectors Typical Applications Automated test environments and R&D labs requiring serial interface validation without physical hardware endpoints. Supports margin analysis, protocol compliance testing, and signal integrity characterization across multiple serial standards. Compatibility & Integration Register-based VXI module compatible with standard VXI controllers and instrumentation platforms.

2108 Characteristics / Specifications

PARAMETER	VALUE
Model	2108
Instrument Type	VXI serial bus emulator
Bus Standard	VXI
Form Factor	VXI module
Function	serial bus emulation
Brand Lineage	Talon EADS Astronics
Series Family	Talon Instruments VXI
Related Modules	SR214A SR101 SR103
Control Interface	VXI message based
Operating Temperature Class	0 C to 55 C
Power Source	VXI backplane
Use Case	serial protocol emulation
Channel Class	multi serial channel class OEM
Baud Rate Class	programmable baud class
Protocol Class	configurable serial protocols class
Front Panel IO	serial connectors class
Triggering	VXI TTL trigger class
Memory Class	onboard pattern buffer class
Humidity Class	noncondensing
Storage Temperature Class	minus 40 C to 70 C class
Altitude Class	standard lab
Manufacturer	Astronics Test Systems legacy Talon
Storage temperature	Class: minus 40 C to 70 C class
Operating temperature	Class: 0 C to 55 C
Humidity	Class: noncondensing

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	Class: minus 40 C to 70 C class
Operating temperature	Class: 0 C to 55 C
Operating Temperature	Class: 0 C to 55 C
Humidity	Class: noncondensing
Operating Temperature Class	0 C to 55 C
Power Source	VXI backplane
Use Case	serial protocol emulation
Channel Class	multi serial channel class OEM
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Protocol Class	configurable serial protocols class
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Memory Class	onboard pattern buffer class
Humidity Class	noncondensing
Storage Temperature Class	minus 40 C to 70 C class
Altitude Class	standard lab
Manufacturer	Astronics Test Systems legacy Talon Notes Capability rows from Astronics/EADS/Talon 2108 VXI Serial Bus Emulator product descriptions. Exact baud rates and protocol options are on the 2108 datasheet.

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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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.