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Data Sheet

August 15, 2026

ASTRONICS / EADS / TALON INSTRUMENTS

Astronics / EADS / Talon Instruments BE-64 Bus Emulator/Word Generator

Astronics / EADS / Talon Instruments BE-64 Bus Emulator and Word Generator VXI Module The Astronics / EADS / Talon Instruments BE-64 isaC-size VXI bus emulator and word generator providing 64 I/O channels with 32 Kbits per channel and data rates to 25 MHz. Word generator mode includes tristate control, table-based memory allocation up to 32K tables, table lengths from 1 word to full depth, loops from 1 to continuous, and up to 16 hardware-linked tables with zero dead time. An idle sequence can run while downloading new data. The architecture has been used to emulate well over 1000 digital interfaces including VME Multibus AT NuBus SCSI Microchannel and EISA setup configurations. The Astronics / EADS / Talon Instruments BE-64 isaC-size VXI bus emulator and word generator providing 64 I/O channels with 32 Kbits per channel and data rates to 25 MHz. Word generator mode includes tristate control, table-based memory allocation up to 32K tables, table lengths from 1 word to full depth, loops from 1 to continuous, and up to 16 hardware-linked tables with zero dead time. An idle sequence can run while downloading new data. The architecture has been used to emulate well over 1000 digital interfaces including VME Multibus AT NuBus SCSI Microchannel and EISA setup configurations. Bus emulation, digital word generation, logic recording, and troubleshooting of microprocessor and standard b

**MODEL****Astronics / EADS /
Talon Instruments
BE-64****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****BE-64****LISTING****[https://aumictechlabs.c
om/products/be-64-2/](https://aumictechlabs.com/products/be-64-2/)**

NIST-traceable cal

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NAICS 423690 · 811210 · 541380

This unit

The Astronics/EADS/Talon Instruments BE-64 is a C-size VXI card that functions as a dual-mode bus emulator and word generator for digital test and troubleshooting applications. The instrument simulates microprocessor-like bus structures and digital interfaces with proven architecture capable of emulating over 1,000 different interface configurations. It supports pre-configured setups for VME, VXI, Multibus, AT, NuBus, SCSI, Microchannel, EISA, and S bus structures.

Technical Specifications

Word Generator Mode 64 channels at 32 Kbits per channel, 25 MHz data rates 32 channels at 64 Kbits per channel, 50 MHz data rates

Software-allocated 32 Kbit memories organized into tables Up to 32,000 tables definable with programmable length from 1 to 32K words Looping range: 1 to 64,000 iterations per table or continuous mode Up to 16 tables hardware-linked for zero dead time sequencing Continuous "Idle" table operation during data downloads Programmable sequences with trigger-based conditional jumps Alternate waveform insertion capability Tristate output control

Logic Recorder Mode Recording capacity: 64 channels × 32K bits per channel Recording frequency: Up to 25 MHz

Bus Emulation Precise microprocessor-like bus interface simulation Pre-configured support for VME, VXI, Multibus, AT, NuBus, SCSI, Microchannel, EISA, and S bus

Key Features SCPI command set support C-size VXI form factor Zero dead time between sequenced table segments Flexible memory table management with up to 32,000 configurations

Compatibility & Integration The BE-64 architecture accommodates simulation of over 1,000 distinct digital interfaces. Pre-configured setups eliminate custom development for standard bus structures including VME, VXI, Multibus, AT, NuBus, SCSI, Microchannel, EISA, and S bus protocols.

Features & description

From manufacturer datasheet

Built-in setups for common industry buses

Technical Specifications Model: BE-64 Instrument Type: bus emulator word generator Card Format: VXI C-size I/O Channels: 64 Memory Per Channel: 32 Kbits Data Rate Maximum: 25 MHz Tristate Control: yes Table Count Max: 32K tables Table Length: 1 word to full memory Loop Counts: 1 to continuous Hardware Linked Tables: up to 16 with zero dead time Idle Sequence Download: supported while running idle Modes: word generator bus emulator logic recorder Example Bus Setups: VME Multibus AT NuBus SCSI Microchannel EISA Platform: VXI digital test Brand Path: Talon EADS Astronics Channel Direction Class: I/O channels with tristate Sequencing: software allocated memory tables Continuous Mode: supported Vendor Path: Talon EADS Astronics Host System Class: SR192 modular digital system where applicable Timing Companion Class: SR101 timing set where applicable Channel Architecture: stimulus and response digital I/O Logic Family Options: TTL ECL RS485 variable voltage class Notes From Astronics EADS Talon BE-64 Artisan OEM description. Exact electrical levels and pod interfaces belong on the BE-64 hardware manual.

64 Characteristics / Specifications

PARAMETER	VALUE
Model	BE-64
Instrument Type	bus emulator word generator
Card Format	VXI C-sizeIOChannels: 64
Memory Per Channel	32 Kbits
Data Rate Maximum	25 MHz
Tristate Control	yes
Table Count Max	32K tables
Table Length	1 word to full memory
Loop Counts	1 to continuous
Hardware Linked Tables	up to 16 with zero dead time
Idle Sequence Download	supported while running idle
Modes	word generator bus emulator logic recorder
Example Bus Setups	VME Multibus AT NuBus SCSI Microchannel EISA
Platform	VXI digital test
Brand Path	Talon EADS Astronics
Channel Direction Class	I/O channels with tristate
Sequencing	software allocated memory tables
Continuous Mode	supported
Vendor Path	Talon EADS Astronics
Host System Class	SR192 modular digital system where applicable
Timing Companion Class	SR101 timing set where applicable
Channel Architecture	stimulus and response digital I/O
Logic Family Options	TTL ECL RS485 variable voltage class
Data Rate	Maximum: 25 MHz

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.