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Data Sheet

August 15, 2026

ASTRONICS / EADS / TALON INSTRUMENTS

Astronics / EADS / Talon Instruments SR214 16-Channel Variable Voltage Stimulus / Response Module

Astronics / EADS / Talon Instruments SR214 16-Channel Variable Voltage Stimulus Response Module The Astronics / EADS / Talon Instruments SR214 is a 16-channel variable-voltage stimulus/response I/O module for the Talon SR192 digital test system. Family literature places variable voltage ranges in the plus or minus 15 V or +5/-2 V class used across SR192 I/O options, enabling programmable level digital test when installed in an SR192 carrier with SR101 timing. Variable-level digital functional test, mixed-voltage UUT interfaces, and SR192-based ATE pin electronics. The Astronics / EADS / Talon Instruments SR214 is a 16-channel variable-voltage stimulus/response I/O module for the Talon SR192 digital test system. Family literature places variable voltage ranges in the plus or minus 15 V or +5/-2 V class used across SR192 I/O options, enabling programmable level digital test when installed in an SR192 carrier with SR101 timing. Variable-level digital functional test, mixed-voltage UUT interfaces, and SR192-based ATE pin electronics. Single-ended or differential family context



MODEL

**Astronics / EADS /
Talon Instruments
SR214**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

SR214

LISTING

**[https://aumictechlabs.c
om/products/sr214-2/](https://aumictechlabs.com/products/sr214-2/)**

NIST-traceable cal

SAM registered

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NAICS 423690 • 811210 • 541380

This unit

The Astronics / EADS / Talon Instruments SR214 is a 16-channel variable voltage stimulus and response module engineered for precision digital testing in aerospace, defense, and industrial applications. This VXI-compatible I/O module delivers synchronized stimulus generation and real-time response capture across multiple voltage standards, supporting complex test sequences with conditional branching and handshake control. The SR214 integrates into the SR192A Digital Test Module system to scale testing capacity to 192 channels.

Technical Specifications

Timing & Data Performance Timing rates to 50 MHz Data rates to 25 MHz (50 MHz multiplexed) Edge placement resolution: 5 ns Channel-to-channel skew: 5 ns

Electrical Characteristics Voltage levels: TTL, ECL, RS485/422, variable ± 15 V or $+5/-2$ V Source/sink current: 50 mA per channel 16 stimulus/response channels per module

Memory & Sequencing Per-channel memory: 128 Kbits (256 Kbits multiplexed) Test sequence memory: 128 K

Five memory architectures: Stimulus, Tristate, Record, Expect, and Mask

Data formats: Hold, RTZ, RT0, RTC

Signal Control Single-ended or double-ended logic options Parallel and serial bus emulation capability

Trigger inputs from VXI TTL/ECL buses, front panel auxiliary inputs, or any channel

Offset sync outputs to test sequence start or step

Key Features High-speed data sequencer controls stimulus/response patterns, UUT handshaking, timing, looping, and conditional testing Real-time error capture during test execution Conditional and unconditional jump, go-sub test sequence control Graphical user interface for accelerated test development LSRTAP file import support for rapid pattern data integration Digital signal assignment matching to physical channels with operating characteristic definition

Typical Applications Aerospace and defense system validation, industrial equipment verification, complex digital bus testing, and multi-channel UUT functional and parametric assessment requiring precise timing correlation and conditional response monitoring.

Compatibility & Integration The SR214 mounts as a "C" size VXI module compatible with the SR192A motherboard. The SR192A system accommodates up to 12 I/O modules, enabling configurations of up to 192 total channels. SR214A modules support intermixing within compatible systems.

SR214 Characteristics / Specifications

PARAMETER	VALUE
Model	SR214
Instrument Type	variable voltage stimulus response I/O module
Channel Count	16
Host System	SR192 digital test module
Timing Companion	SR101
Voltage Class Family	plus or minus 15 V or +5/-2 V
Platform	VXI via SR192
Related Model	SR214A
Related Fixed Logic Modules	SR112 RS485 SR122
System Channel Context	contributes 16 of 96/192 SR192 channels
Logic Role	variable voltage digital I/O
Product Family	Talon SR192 I/O modules
Carrier Slots Context	one of up to 12 I/O modules in SR192
Test Modes Class	stimulus and response
Brand Path	Talon EADS Astronics
Card Format Class	SR192 plug-in I/O module
Digital Test Class	programmable level pin electronics
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
Expansion Class	multi-module master configurations
Memory Architecture	per-channel pattern memory class

SR214 Specifications

PARAMETER	VALUE
Applications	Variable-level digital functional test, mixed-voltage UUT interfaces, and SR192-based ATE pin electronics.
Variable voltage digital levels	Installs in SR192 modular digital system
Technical Specifications	Model: SR214

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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Channel Count	16
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Channel Architecture	stimulus and response digital I/O
Logic Family Options	TTL ECL RS485 variable voltage class
Expansion Class	multi-module master configurations
Memory Architecture	per-channel pattern memory class

Notes

From Astronics EADS Talon SR214 product family descriptions tied to SR192. Exact DAC resolution and edge rates belong on the SR214 datasheet.

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.