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Data Sheet

August 15, 2026

ASTRONICS / EADS / TALON INSTRUMENTS

Astronics / EADS / Talon Instruments SR214A Variable Voltage Stimulus/ Response Module

Talon Instruments SR214A 16 Channel Variable Voltage Stimulus Response Module The Talon SR214A is a 16-channel single-ended variable-voltage stimulus/response I/O module for the SR192 digital test system. OEM SR214A listings specify variable voltage +7 V to -5 V. Family SR192 literature places data rates to 25 MHz (50 MHz multiplexed), timing rates to 50 MHz, 128 Kbits memory per channel (256K multiplexed), five-memory architecture (Stimulus, Tristate, Record, Expect, Mask), and 50 mA source/sink on TTL-class modules. SR192 houses up to 12 I/O modules (96 or 192 channels). SR101 provides timing. SR214A is the A-revision of SR214. The Talon SR214A is a 16-channel single-ended variable-voltage stimulus/response I/O module for the SR192 digital test system. OEM SR214A listings specify variable voltage +7 V to -5 V. Family SR192 literature places data rates to 25 MHz (50 MHz multiplexed), timing rates to 50 MHz, 128 Kbits memory per channel (256K multiplexed), five-memory architecture (Stimulus, Tristate, Record, Expect, Mask), and 50 mA source/sink on TTL-class modules. SR192 houses up to 12 I/O modules (96 or 192 channels). SR101 provides timing. SR214A is the A-revision of SR214. Variable-level digital functional test and mixed-voltage UUT pin electronics in SR192 VXI ATE.



MODEL

**Astronics / EADS /
Talon Instruments
SR214A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

SR214A

LISTING

[https://aumictechlabs.c
om/products/sr214a-2/](https://aumictechlabs.com/products/sr214a-2/)

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Astronics/EADS/Talon Instruments SR214A is a variable voltage stimulus/response module engineered for signal generation and measurement within the SR192A Digital Test System. This 16-channel module delivers flexible voltage stimulus and response capabilities for automated test equipment and laboratory applications. It integrates with other SR192A module types LVDS, TTL, and RS-485 - enabling custom digital test configurations across 8 to 192 channels. Technical Specifications Channels: 16 per module; configurable in 8-channel increments Data Rate: Up to 25 MHz; 50 MHz when multiplexed Timing Rate: Up to 50 MHz Voltage Range: -5V to +7V Source/Sink Current: 50 mA Memory Architecture: 5 types (Stimulus, Tristate, Record, Expect, Mask) Memory per Channel: 128 Kbits; 256 Kbits when multiplexed Edge Placement Resolution: 5 ns Channel-to-Channel Skew: 5 ns Key Features Variable voltage stimulus and response in a single module Single-ended or double-ended logic I/O configuration High-speed data sequencer supporting UUT handshaking, pattern control, looping, and conditional testing 5 ns edge placement resolution for precise timing control Supports LSRTAP file data import Typical Applications Mixed-signal and digital device testing Automated test equipment (ATE) environments Complex pattern-based signal generation and verification Flexible voltage stimulus scenarios requiring -5V to +7V stimulus levels Compatibility & Integration The SR214A operates within the SR192A Digital Test System VXI module architecture. Multiple SR214A modules can be intermixed with LVDS, TTL, and RS-485 modules. The parent SR192A system scales from 8 to 192 channels per module, with support for master/slave linking and up to 1152 channels in a single 13-slot chassis. Trigger inputs accept VXI TTL, VXI ECL, front panel auxiliary, or channel-level triggers with offset-capable sync outputs.

SR214A Characteristics / Specifications

PARAMETER	VALUE
Model	SR214A
Related Model	SR214
Instrument Type	Variable voltage stimulus/response I/O module
Channel Count	16
Voltage Range	+7 V to -5 V
Host System	SR192 digital test module
Timing Companion	SR101 Timing Set module
Data Rate Family	data rates to 25 MHz, 50 MHz multiplexed
Timing Rate Family	timing rates to 50 MHz
Memory Per Channel Family	128 Kbits per channel, 256K multiplexed
Memory Architecture Family	Stimulus, Tristate, Record, Expect, and Mask
Carrier Slots	one of up to 12 I/O modules in SR192
System Channel Context	8 or 16 channels per I/O module; 96 or 192 total in one SR192
Logic Options Family	TTL, ECL, RS485/422, or variable voltage
Platform	VXI via SR192
Manufacturer	Talon Instruments / EADS / Astronics
Use Case	variable level digital pin electronics
Literature	Talon SR192/SR214A product listings
Family	Talon SR192 I/O modules
Documentation Type	OEM SR214A / SR192 family table
Brand Lineage	Talon EADS Astronics
System Role	variable voltage digital I/O
Form Factor	SR192 plug-in I/O module
Related Ttl	SR103 TTL I/O module
Related Dac	SR110 DAC module

PARAMETER

VALUE

Data Rate

Family: data rates to 25 MHz, 50 MHz multiplexed

SR214A Specifications

PARAMETER	VALUE
Applications	Variable-level digital functional test and mixed-voltage UUT pin electronics in SR192 VXI ATE.
Sixteen variable voltage channels	+7 V to -5 V levels
Works with SR101 timing	25 MHz data 50 MHz timing family
Technical Specifications	Model: SR214A

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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Related Ttl	SR103 TTL I/O module
Related Dac	SR110 DAC module

Notes

From Talon/Astronics SR214A listings (+7 V to -5 V, 16 channels) and SR192 family tables (25/50 MHz, 128 Kbit, five memories, 12 I/O slots). Edge placement and DAC resolution are on the SR214A 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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<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
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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.