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Data Sheet

August 15, 2026

EADS / RACAL / DANA

EADS / Racal / Dana 6061B Synthesized Signal Generator

Astronics 6061B VXI Universal Analog and Digital I/O Module The Astronics 6061B isaC-size VXI universal analog/digital I/O module configured as theBvariant with 16 analog outputs and 32 digital channels, 12-bit resolution, and internal trace memory for waveform output and data storage. VXI automated test stimulus and response, multi-channel analog output with digital I/O, and SCPI-controlled functional test fixtures. Instrument Type: VXI universal analog digital I/O module The Astronics 6061B isaC-size VXI universal analog/digital I/O module configured as theBvariant with 16 analog outputs and 32 digital channels, 12-bit resolution, and internal trace memory for waveform output and data storage. VXI automated test stimulus and response, multi-channel analog output with digital I/O, and SCPI-controlled functional test fixtures. Instrument Type: VXI universal analog digital I/O module Card Format: C size VXI single slot class



MODEL

**EADS / Racal /
Dana 6061B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

6061B

LISTING

[https://aumictechlabs.c
om/products/6061b-3/](https://aumictechlabs.com/products/6061b-3/)

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The EADS/Racal/Dana 6061B is a C-size VXIbus module that functions as a universal analog and digital input/output platform for test and measurement applications. The 6061B model combines 16 analog output channels with configurable digital I/O, making it suitable for production test, ECU

simulation, and power supply testing in automotive and industrial environments. Message-based SCPI programming and internal trace memory enable flexible waveform generation and data acquisition workflows. Technical Specifications Form Factor & Memory C-size VXIbus module 256 kBytes internal memory (expandable to 512 kBytes) SCPI-compatible message-based programming Analog Output (16 Channels) 12-bit resolution Scan rates: >2.7 kHz (16 ch), >4.7 kHz (8 ch), >14 kHz (1 ch) Accuracy: $\pm(0.1\% \text{ FSR} + 0.3 \text{ mV})$ standard; Option 01 $\pm(0.1\% \text{ FSR} + 0.5 \text{ mV})$; Option 03 $\pm(0.2\% \text{ FSR} + \mu\text{A})$ Voltage ranges: 1V, 5V, 10V, $\pm 1\text{V}$, $\pm 5\text{V}$, $\pm 10\text{V}$ standard; 1.6V, 8V, 16V, $\pm 1.6\text{V}$, $\pm 8\text{V}$, $\pm 16\text{V}$ (Option 1); 2 mA, 10 mA, 20 mA (Option 3) Digital I/O Standard: 16 input channels (current receiver), 16 output channels (open collector) Option 2: 32 software-configurable input/output channels (TTL) Scan rates: >2.7 kHz (16 ch), >5 kHz (8 ch), >16.6 kHz (1 ch) Key Features Isolated input and output architecture Internal trace memory for waveform storage and generation Multi-range voltage and current output capability High scan rates enable rapid signal sequencing Modular configuration supports mixed-signal test scenarios Typical Applications Automotive component production test ECU simulation using analog outputs as low-frequency and DC function generators Power supply testing with programmed voltage ripple simulation Control signal verification via analog inputs Compatibility & Integration Supplied with 78-pin D-Sub connectors and RI6061 Universal A/D Input/Output WIN System Framework software. Part of the 6060/6061 family of universal analog and digital I/O VXI modules.

6061B Characteristics / Specifications

PARAMETER	VALUE
Model	6061B
Instrument Type	VXI universal analog digital I/O module
Card Format	C size VXI single slot class
Analog Output ChannelsBModel	16
Analog Input ChannelsBModel	0
Analog Resolution	12 bits
Analog Output Scan Rate 16 Channels	greater than 2.7 kHz
Analog Output Scan Rate 8 Channels	greater than 4.7 kHz
Analog Output Scan Rate 1 Channel	greater than 14 kHz
Analog Accuracy Standard	plus or minus 0.1 percent FSR plus 0.3 mV
Standard Voltage Ranges	1 V 5 V 10 V plus or minus 1 V plus or minus 5 V plus or minus 10 V
Digital Channels Standard	16 input 16 output
Digital Channels Option	32 software configurable TTL I/O
Digital Scan Rate 16 Channels	greater than 2.7 kHz
Digital Scan Rate 1 Channel	greater than 16.6 kHz
Digital Types Standard	current receiver inputs open collector outputs
Trace Memory	internal for storage and waveform output
Programming	SCPI
Family	6060/6061 universal A/D I/O
Analog Option 01 Ranges Class	1.6 V 8 V 16 V bipolar counterparts
Current Option 03 Ranges Class	2 mA 10 mA 20 mA
Isolation Class	isolated inputs and outputs available

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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PARAMETER	VALUE
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Analog Input ChannelsBModel	0
Analog Resolution	12 bits
Analog Output Scan Rate 16 Channels	greater than 2.7 kHz
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Analog Output Scan Rate 1 Channel	greater than 14 kHz
Analog Accuracy Standard	plus or minus 0.1 percent FSR plus 0.3 mV
Standard Voltage Ranges	1 V 5 V 10 V plus or minus 1 V plus or minus 5 V plus or minus 10 V
Digital Channels Standard	16 input 16 output
Digital Channels Option 2	32 software configurable TTL I/O
Digital Scan Rate 16 Channels	greater than 2.7 kHz
Digital Scan Rate 1 Channel	greater than 16.6 kHz
Digital Types Standard	current receiver inputs open collector outputs
Trace Memory	internal for storage and waveform output
Programming	SCPI
Family	6060/6061 universal A/D I/O
Analog Option 01 Ranges Class	1.6 V 8 V 16 V bipolar counterparts
Current Option 03 Ranges Class	2 mA 10 mA 20 mA
Isolation Class	isolated inputs and outputs available
Notes	
Numeric rows from EADS/Racal/Dana 6061B product specification tables. Listing titles calling itasynthesized signal generator are mislabeled; hardware is the universal A/D I/O module.	

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

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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.