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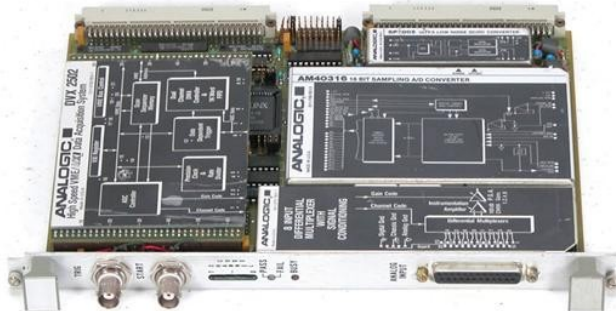
Data Sheet

August 15, 2026

ANALOGIC

Analogue DVX-2502 Multi-Channel Data Acquisition / Digitizer System

Carrier Dependency: DBS9900 for DBS9xx plug-ins Timing Sources Class: internal front panel VXI TTLTRG Coherent Multi Module: supported on DBS9900 From Analogue DVX 25XX series literature extracts for DVX-2502. Exact INL DNL and filter settings belong on the DVX2502 datasheet for the installed dash number. Timing Sources Class: internal front panel VXI TTLTRG Coherent Multi Module: supported on DBS9900 From Analogue DVX 25XX series literature extracts for DVX-2502. Exact INL DNL and filter settings belong on the DVX2502 datasheet for the installed dash number.



MODEL

Analogue DVX-2502

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

DVX-2502

LISTING

<https://aumictechlabs.com/products/dvx-2502-3/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Analogue DVX-2502 is a multi-channel data acquisition and digitizer system built on a dual eurocard (6U) VXI size B form factor for single-slot VME chassis integration. It has eight shielded differential inputs with voltage and current protection, expandable to 256 channels using Analogue DVX multiplexer boards. Signal conditioning flows through an instrumentation amplifier and programmable gain amplifier with four software-selectable gains into a high-resolution, fast-sampling analog-to-digital converter. A two-channel on-board DMA controller enables direct data

transfers to system memory over the VMEbus, minimizing I/O overhead. The system complies with VME Specification Rev. C1 and VXI Specification Rev. 1.3. Technical Specifications Form Factor: Dual eurocard (6U) VXI size B; single slot VME chassis compatibility Input Channels: 8 shielded differential inputs; expandable to 256 channels with multiplexer boards ADC Resolution: 14-bit or 16-bit variants available within DVX 25XX series Sampling Rate: Up to 1 MHz (DVX 25XX series) Signal Conditioning: Instrumentation amplifier with programmable gain amplifier featuring four software-selectable gains Data Transfer: 2-channel on-board DMA controller; direct VMEbus transfers to system memory Protection: Voltage and current protection on input channels VME Compatibility: Rev. C1 compliant VXI Compatibility: Rev. 1.3 compliant Key Features Front-end switching and settling times optimized for ADC performance Modular expansion capability through Analogic DVX multiplexer board integration Direct memory access reduces processor overhead during high-speed acquisition Software-configurable gain settings for diverse signal ranges Typical Applications High-speed multi-channel signal monitoring and data logging Research and industrial test systems requiring VME/VXI architecture Systems demanding synchronized acquisition across multiple channels Compatibility & Integration The DVX-2502 integrates with EPICS 3.14 through dedicated driver components. VME configuration uses the command ``dvx2502Config(ncards, base, memory, vector)`` with parameters for module count, base address, memory allocation, and interrupt vector assignment.

DVX2502 Characteristics / Specifications

PARAMETER	VALUE
Model	DVX-2502
Instrument Type	multichannel data acquisition digitizer
Resolution	16 bit
Throughput	200 kHz
Input Channels Base	8 differential
Expansion Channels Max	256 with DVX multiplexers
Dma	dual channel DMA controller
Card Format	6U VME
Input Protection	voltage and current
Range Variant B	bipolar plus or minus 10 V
Series	DVX 25XX
Related Throughput Classes	200 kHz 400 kHz 1 MHz
Related Resolution Classes	14-bit and 16-bit series members
Shielding	shielded differential inputs
Platform Family	Analogic DVX 2xxx cards
Sampling Optimization	amplifier bandwidth and settling optimized for rated throughput
Catalog Description	16-Bit 200 kHz DAS Digitizer
Expandability	multiplexer board family supported
Vendor	Analogic
Instrument Family	DBS9xx or DVX 25XX as applicable
Carrier Dependency	DBS9900 for DBS9xx plug-ins
Timing Sources Class	internal front panel VXI TTLTRG
Coherent Multi Module	supported on DBS9900
Bandwidth	and settling optimized for rated throughput

DVX2502 Specifications

PARAMETER	VALUE
Key Features	Sixteen-bit resolution at 200 kHz throughput
Voltage and current input protection	VME 6U digitizer platform with VXI support class siblings
Technical Specifications	Model: DVX-2502

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
Model	DVX-2502
Instrument Type	multichannel data acquisition digitizer
Resolution	16 bit
Throughput	200 kHz
Input Channels Base	8 differential
Expansion Channels Max	256 with DVX multiplexers
Dma	dual channel DMA controller
Card Format	6U VME
Input Protection	voltage and current
Range Variant B05	bipolar plus or minus 5 V
Range Variant B10	bipolar plus or minus 10 V
Series	DVX 25XX
Related Throughput Classes	200 kHz 400 kHz 1 MHz
Related Resolution Classes	14-bit and 16-bit series members
Shielding	shielded differential inputs
Platform Family	Analogic DVX 2xxx cards
Sampling Optimization	amplifier bandwidth and settling optimized for rated throughput
Catalog Description	16-Bit 200 kHz DAS Digitizer
Expandability	multiplexer board family supported
Vendor	Analogic
Instrument Family	DBS9xx or DVX 25XX as applicable
Carrier Dependency	DBS9900 for DBS9xx plug-ins
Timing Sources Class	internal front panel VXI TTLTRG
Coherent Multi Module	supported on DBS9900

Notes

From Analogic DVX 25XX series literature extracts for DVX-2502. Exact INL DNL and filter settings belong on the DVX2502 datasheet for the installed dash number.

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.