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Data Sheet

August 15, 2026

ANALOGIC

Analogue DBS902 14-Bit Waveform Digitizer Module

Analogue DBS902 14-bit 80 MS/s Waveform Digitizer Module The Analogue DBS902 is a 14-bit waveform digitizer plug-in for the DBS9900 VXI C-size dual instrument carrier. OEM tables rate 80 MS/s sample rate, 40 MHz bandwidth, and 14-bit resolution. Shared carrier clocks and triggers support coherent operation with DBS901 AWGs and other DBS9xx modules. VXI waveform capture, coherent digitize-and-stimulate loops, and multi-module acquisition on DBS9900 carriers. Instrument Type: waveform digitizer plug-in module The Analogue DBS902 is a 14-bit waveform digitizer plug-in for the DBS9900 VXI C-size dual instrument carrier. OEM tables rate 80 MS/s sample rate, 40 MHz bandwidth, and 14-bit resolution. Shared carrier clocks and triggers support coherent operation with DBS901 AWGs and other DBS9xx modules. VXI waveform capture, coherent digitize-and-stimulate loops, and multi-module acquisition on DBS9900 carriers. Instrument Type: waveform digitizer plug-in module Clock Sources: internal circuitry front panel and VXI TTLTRG



MODEL

Analogue DBS902

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

DBS902

LISTING

<https://aumictechlabs.com/products/dbs902-3/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Analogic DBS902 is a 14-bit waveform digitizer module engineered for high-speed signal acquisition in demanding measurement environments. It functions as a plug-in component for the Analogic DBS9900 VXI C-size Dual Instrument Carrier, enabling dual-module configurations within a single chassis slot. The DBS902 delivers 80 MHz sampling with 2 MS of acquisition memory, 40 MHz typical bandwidth, and signal integrity suitable for scientific research, medical imaging, and industrial test applications.

Technical Specifications

Sampling Rate: Up to 80 MHz
Resolution: 14-bit
Acquisition Memory: 2 MS (MegaSamples)
Bandwidth: 40 MHz typical
Input Impedance: 1 M Ω
Input Capacitance: 50 pF maximum
Signal-to-Noise Ratio: >63 dB typical, 60 dB minimum (1 MHz Fin, 80 MS/s Fs, 40 MHz BW); >65 dB typical, 62 dB minimum (1 MHz Fin, 10 MS/s Fs, 5 MHz BW)
Spurious-Free Dynamic Range: >75 dBc typical, 65 dBc minimum (10 MHz Fin, 80 MS/s Fs, 40 MHz BW); >78 dBc typical, 68 dBc minimum (1 MHz Fin, 10 MS/s Fs, 5 MHz BW)
Input-Referred Noise: 220 μ V RMS typical at 40 MHz filter, $\pm$ 0.5 V range
Overvoltage Protection: $\pm$ 3.1 VDC (low ranges), $\pm$ 31 VDC (high ranges), $\pm$ 124 V (DBS902HV)
Power Consumption: 20.0 W total (+12 VDC @ 0.50 A, -12 VDC @ 0.10 A, +5 VDC @ 2.30 A, -5.2 VDC @ 0.20 A, -2 VDC @ 0.10 A)

Key Features

- Dual-module capability within single VXI chassis slot
- Programmable clock sources with internal, front-panel, and VXI TTLTRG line access
- Minimal clock skew through internal clock distribution to all plug-in modules
- Self-triggered or externally triggered acquisition with programmable thresholds
- Programmable sample counter for flexible data point control
- Pre-trigger, post-trigger, and arbitrary window positioning
- On-the-fly sample tagging via front-panel digital input for event identification and time stamping
- VXI Plug & Play compliant with provided software driver

Compatibility & Integration

Designed exclusively for the Analogic DBS9900 VXI C-size Dual Instrument Carrier. Up to two DBS902 modules install per carrier, maximizing slot utilization and reducing per-slot cost.

DBS902 Characteristics / Specifications

PARAMETER	VALUE
Model	DBS902
Instrument Type	waveform digitizer plug-in module
Carrier Model	DBS9900
Function Class	DIG
Sample Rate	80 MS/s
Bandwidth	40 MHz
Resolution	14 bit
Platform	VXI C-size via DBS9900 carrier
Carrier Type	dual instrument carrier
Clock Sources	internal circuitry front panel and VXI TTLTRG
Trigger Sources	internal front panel and VXI TTLTRG
Coherent Operation	supported with other DBS9xx modules
Threshold Programming	clock and trigger thresholds programmable per module
Related Awg Sibling	DBS901 100 MS/s 50 MHz 14-bit
Related High Res Dig	DBS904 4 MS/s 1 MHz 22-bit
Product Family	DBS9xx on DBS9900
Module Role	plug-in function module
Data Path Class	14-bit waveform digitizing
System Integration	multiple modules clocked simultaneously from carrier
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

DBS902 Specifications

PARAMETER	VALUE
Applications	VXI waveform capture, coherent digitize-and-stimulate loops, and multi-module acquisition on DBS9900 carriers.
Key Features	Fourteen-bit digitizer for DBS9900
Technical Specifications	Model: DBS902
Notes	From Analogic DBS9900/DBS902 Artisan OEM comparison tables. Input ranges and memory depth belong on the DBS902 module datasheet.

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	DBS902
Instrument Type	waveform digitizer plug-in module
Carrier Model	DBS9900
Function Class	DIG
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Bandwidth	40 MHz
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System Integration	multiple modules clocked simultaneously from carrier
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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 DBS9900/DBS902 Artisan OEM comparison tables. Input ranges and memory depth belong on the DBS902 module 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.