

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 15, 2026

ANALOGIC

Anallogic DBS902HV 14-Bit Waveform Digitizer Module

Anallogic DBS902HV High-Voltage Class Digitizer 14-bit 80 MS/s Waveform Digitizer Module

The Anallogic DBS902HV 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 Anallogic DBS902HV 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

**Anallogic
DBS902HV**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

DBS902HV

LISTING

<https://aumictechlabs.com/products/db902hv-3/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Analogic DBS902HV is a 14-bit waveform digitizer module engineered for high-speed signal acquisition in VXI-based instrumentation systems. This daughterboard plugs into the Analogic DBS9900 VXI C-size Dual Instrument Carrier, enabling multiple modules to share a single chassis slot while maintaining coherent operation across the DBS9XX series for integrated signal analysis. The module delivers one differential input channel with 14-bit resolution and sampling rates to 80 MS/s across a 40 MHz bandwidth. Six selectable input ranges span ± 0.5 V through ± 25 V, accommodating both low-level and high-voltage signals. Input impedance options include 50 Ω , 75 Ω , and 1 M Ω configurations. Overvoltage protection extends to ± 30 VDC on high ranges and ± 3 VDC on low ranges. Dynamic performance is defined by spurious-free dynamic range (SFDR) exceeding 75 dB typical at 10 MHz input with 80 MS/s sampling, and noise floor of 200 μ V RMS maximum with 30 MHz bandwidth at 50 Ω . Integral non-linearity remains within ± 3 LSB typical, with DC gain accuracy of $\pm 1\%$ over ± 5 $^{\circ}$ C intervals. Common-mode rejection reaches >60 dB from DC to 20 kHz at ± 0.5 V, while channel-to-channel crosstalk rejection exceeds 100 dB.

Technical Specifications
Resolution: 14-bit
Sampling Rate: Up to 80 MS/s
Channels: One differential
Bandwidth: 40 MHz
Input Ranges: ± 0.5 V, ± 1.0 V, ± 2.5 V, ± 5.0 V, ± 10 V, ± 25 V
Input Impedance: 50 Ω , 75 Ω , or 1 M Ω
SFDR: >75 dB typ. (10 MHz input, 80 MS/s); >63 dB typ. (80 MS/s, 40 MHz bandwidth)
Noise: 200 μ V RMS max. (30 MHz bandwidth @ 50 Ω)
Common-Mode Rejection: >60 dB (DC to 20 kHz @ ± 0.5 V)
Integral Non-Linearity: ± 3 LSB typ.
DC Gain Accuracy: $\pm 1\%$ (within ± 5 $^{\circ}$ C)
Overvoltage Protection: ± 30 VDC (high ranges), ± 3 VDC (low ranges)

Key Features
Software-selectable lowpass filter: None, 20 MHz, or 40 MHz
Programmable trigger thresholds with pre-trigger, post-trigger, and arbitrary positioning
Internal and external clock/trigger sources via front panel and VXI TTLTRG lines
Front panel digital input for real-time sample tagging
Programmable sample counter for data point control

Compatibility & Integration
Designed for the Analogic DBS9900 VXI C-size Dual Instrument Carrier. Supports coherent operation with other Analogic DBS9XX series modules for multi-function signal acquisition and analysis.

DBS902HV Characteristics / Specifications

PARAMETER	VALUE
Model	DBS902HV
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

DBS902HV 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: DBS902HV

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	
Specifications	
PARAMETER	VALUE
Model	DBS902HV
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

Notes

HV-suffixed DBS902 family module on DBS9900. Sample rate bandwidth and resolution class follow DBS902 comparison tables; high-voltage input limits are revision specific on the DBS902HV 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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 15, 2026

Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.