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Data Sheet

August 15, 2026

ANALOGIC

Analogue DBS901HV Arbitrary Waveform Generator Module

Analogue DBS901HV High-Voltage Class AWG 14-bit 100 MS/s class Arbitrary Waveform Generator Module The Analogue DBS901HV is a 14-bit arbitrary waveform generator plug-in for the DBS9900 VXI C-size dual instrument carrier. OEM carrier comparison tables rate the DBS901HV at 100 MS/s class with 50 MHz bandwidth and 14-bit resolution. The DBS9900 carrier provides shared clock and trigger distribution so multiple DBS9xx modules can operate coherently with programmable thresholds. VXI ATE stimulus, coherent multi-module waveform generation, and mixed digitizer/AWG systems on DBS9900 carriers. The Analogue DBS901HV is a 14-bit arbitrary waveform generator plug-in for the DBS9900 VXI C-size dual instrument carrier. OEM carrier comparison tables rate the DBS901HV at 100 MS/s class with 50 MHz bandwidth and 14-bit resolution. The DBS9900 carrier provides shared clock and trigger distribution so multiple DBS9xx modules can operate coherently with programmable thresholds. VXI ATE stimulus, coherent multi-module waveform generation, and mixed digitizer/AWG systems on DBS9900 carriers. Programmable trigger and clock thresholds



MODEL

**Analogue
DBS901HV**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

DBS901HV

LISTING

<https://aumictechlabs.com/products/dbs901hv-3/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Analogic DBS901HV is a 14-bit arbitrary waveform generator module engineered for signal generation in VXI-based test systems. It plugs directly into the Analogic DBS9900 VXI C-size dual instrument carrier, supporting up to two DBS901 series modules per carrier for compact, cost-effective multi-function solutions. With 100 MHz sampling rate and 1 MS of segmentable waveform memory, the DBS901HV delivers precise control over complex custom waveforms with branching and looping capabilities.

Technical Specifications

Sampling Rate: 100 MHz

Resolution: 14-bit (two's complement, left justified)

Waveform Memory: 1 MS segmentable; segment length 10 samples to 64 kS; up to 43,687 segments; looping 1 to 64k repetitions or continuous

Output Voltage: 30 V peak-to-peak maximum

Output Amplitude Ranges: ± 0.5 V, ± 1.0 V, ± 2 V, ± 5.0 V (unterminated, 0 V offset)

Output Impedance: Programmable to 50 Ω or 75 Ω

Reconstruction Filter: 3rd order Bessel low-pass; selectable None, 5 MHz, or 20 MHz

SFDR: 80 dBc minimum at 1 MHz; 70 dBc minimum at 10 MHz

Peak Harmonic Distortion: 74 dBc maximum at 1 MHz (± 0.5 V output, 0 V offset)

Amplitude Flatness: ± 0.2 dB DC to 10 MHz for full-scale output (± 0.5 V and ± 1 V ranges)

Short Circuit/Over-Current Protection: 10 ms response time, ± 200 mA minimum

Key Features

- Flexible clock sources: internal (95 Hz to 100 MHz), front panel, or VXI TTLTRG/ECLTRG lines
- Programmable trigger and clock thresholds per plug-in module
- Segmentable memory with branching for efficient complex sequence generation
- Multi-module operation with synchronized clocking for coherent measurements

Compatibility & Integration

- VXI Plug & Play compliant
- software driver included
- Automatic module recognition and configuration
- Supports all DBS901 series functions across installed modules

DBS901HV Characteristics / Specifications

PARAMETER	VALUE
Model	DBS901HV
Instrument Type	arbitrary waveform generator plug-in module
Carrier Model	DBS9900
Function Class	AWG
Sample Rate	100 MS/s class
Bandwidth	50 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 Digitizer Sibling	DBS902 80 MS/s 40 MHz 14-bit
Related High Res Awg	DBS903 4 MS/s 1 MHz 22-bit
Product Family	DBS9xx on DBS9900
Module Role	plug-in function module
Data Path Class	14-bit waveform generation
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

DBS901HV Specifications

PARAMETER	VALUE
Applications	VXI ATE stimulus, coherent multi-module waveform generation, and mixed digitizer/AWG systems on DBS9900 carriers.
Key Features	Fourteen-bit AWG module for DBS9900
Fifty megahertz bandwidth class	Coherent clocking via DBS9900 carrier
Technical Specifications	Model: DBS901HV

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	DBS901HV
Instrument Type	arbitrary waveform generator plug-in module
Carrier Model	DBS9900
Function Class	AWG
Sample Rate	100 MS/s class
Bandwidth	50 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 Digitizer Sibling	DBS902 80 MS/s 40 MHz 14-bit
Related High Res Awg	DBS903 4 MS/s 1 MHz 22-bit
Product Family	DBS9xx on DBS9900
Module Role	plug-in function module
Data Path Class	14-bit waveform generation
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 DBS901 family module on DBS9900. Sample rate bandwidth and resolution class follow DBS901 comparison tables; high-voltage output limits are revision specific on the DBS901HV 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.