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Data Sheet

August 15, 2026

ANALOGIC

Analogue DBS901 14-Bit Arbitrary Waveform Generator Module

Analogue DBS901 14-bit 100 MS/s Arbitrary Waveform Generator Module The Analogue DBS901 is a 14-bit arbitrary waveform generator plug-in for the DBS9900 VXI C-size dual instrument carrier. OEM carrier comparison tables rate the DBS901 at 100 MS/s 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 DBS901 is a 14-bit arbitrary waveform generator plug-in for the DBS9900 VXI C-size dual instrument carrier. OEM carrier comparison tables rate the DBS901 at 100 MS/s 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 DBS901

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

DBS901

LISTING

<https://aumictechlabs.com/products/dbs901-3/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Analogic DBS901 is a 14-bit arbitrary waveform generator module designed for VXI integration into the DBS9900 carrier chassis. It delivers high-speed signal generation with 14-bit resolution at sample rates up to 100 MHz, supporting demanding applications in semiconductor testing, video and digital communications simulation, vibration testing, and R&D. The modular architecture permits two DBS901 units per VXI slot, optimizing chassis utilization and system cost.

Technical Specifications

Waveform Generation Resolution: 14-bit (Two's complement, left-justified) Maximum sample rate: 100 MHz Memory: 1 MS (DBS901) or 8 MS (DBS901LM) Segment length: 10 samples to 64 kS; up to 43,687 segments Looping: 1 to 64,000 repetitions or continuous Signal Output Full-scale ranges: $\pm 0.5\text{V}$, $\pm 1\text{V}$ (0V offset, specified 0–10 MHz $\pm 0.2\text{ dB}$); $\pm 2\text{V}$ and $\pm 5\text{V}$ available with slightly degraded performance Reconstruction filter: 3rd order Bessel low-pass (selectable: None, 5 MHz, or 20 MHz) Spurious-free dynamic range: 80 dBc minimum (1 MHz); 70 dBc minimum (10 MHz) Peak harmonic distortion: 74 dBc maximum (1 MHz, $\pm 0.5\text{V}$, 0V offset) Short-circuit/over-current protection: 10 ms response, $\pm 200\text{ mA}$ minimum Clocking & Triggering Internal clock: 95 Hz to 100 MHz (programmable) External clock sources: Front panel connectors, VXI TTL/ECL trigger lines Programmable thresholds per module Coherent operation across DBS9XX series modules with synchronized timing

Key Features

Modular VXI Plug & Play architecture with automatic module recognition Independent or simultaneous clocking and triggering of multiple modules Flexible waveform memory segmentation for complex signal sequences Software drivers include source code and .DLL files for rapid integration

Typical Applications

Semiconductor device and circuit testing Video and digital communications signal simulation Vibration testing and control Research and development signal generation

Compatibility & Integration

Installs in the Analogic DBS9900 "C" size VXI carrier module. Up to two DBS901 modules fit in a single carrier slot. Supports coherent multi-module operation with synchronized clock distribution and minimal skew.

DBS901 Characteristics / Specifications

PARAMETER	VALUE
Model	DBS901
Instrument Type	arbitrary waveform generator plug-in module
Carrier Model	DBS9900
Function Class	AWG
Sample Rate	100 MS/s
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

DBS901 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: DBS901
Notes	From Analogic DBS9900/DBS901 Artisan OEM comparison tables. Amplitude ranges and memory depth belong on the DBS901 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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Notes

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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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NIST-traceable calibration · SAM registered ·
30-day returns
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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.