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Data Sheet

August 13, 2026

INTERFACE TECHNOLOGY

Interface Technology DG600 Digital Word Generator

Interface Technology DG600 VXI Digital Word / Pattern Generator The Interface Technology DG600 is a message-based digital pattern / word generator in a single-slot C-size VXI module. It generates complex patterns at up to 50 MHz with three-level looping and data tabling. Thirty-two data channels run at up to 25 MHz; sixteen of those channels run at up to 50 MHz. Up to three DG605 expansion modules extend width to 16–112 channels at 50 MHz (32-channel steps) or 32–224 channels at 25 MHz (64-channel steps). Per-channel tristate on a clock-by-clock basis supports bidirectional bus test. IEEE 488.2 common commands plus a dedicated word-generator language. The Interface Technology DG600 is a message-based digital pattern / word generator in a single-slot C-size VXI module. It generates complex patterns at up to 50 MHz with three-level looping and data tabling. Thirty-two data channels run at up to 25 MHz; sixteen of those channels run at up to 50 MHz. Up to three DG605 expansion modules extend width to 16–112 channels at 50 MHz (32-channel steps) or 32–224 channels at 25 MHz (64-channel steps). Per-channel tristate on a clock-by-clock basis supports bidirectional bus test. IEEE 488.2 common commands plus a dedicated word-generator language. Memory-device and microprocessor bus stimulus; VXI digital pattern generation; bidirectional bus emulation with tristate; expandable multi-module pattern system.



MODEL

**Interface Technology
DG600**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

DG600

LISTING

<https://aumictechlabs.com/products/dg600-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Interface Technology DG600 is a single-slot C-size VXI module that generates and outputs custom digital patterns for testing and development environments. It simulates complex digital inputs and controls digital devices through message-based pattern generation, supporting channel counts from 16 to 224 depending on configuration and expansion. Technical Specifications Channel Configuration 16 to 112 channels at 50 MHz with 16K memory depth 32 to 224 channels at 25 MHz with 8K memory depth 16 data channels available at 25 MHz, with 16 of these operating at up to 50 MHz Timing and Clocking Independent word timing from 20 ns to 85 seconds Internal clock rates from 1 Hz to 50 MHz with 1 Hz resolution Phase-Locked-Loop (PLL) source lockable to the 10 MHz VXI signal Ungated clock provides free-running output from the master clock source Symmetrical clock output with 50% duty cycle matching the output word time period Data and Control Up to 255 data tables with three-level nested table sequencing Increment memory fills command for rapid test condition setup Clock-by-clock tristate control per channel for bidirectional bus testing Key Features Scalable to 112 channels at 50 MHz or 224 channels at 25 MHz via up to three DG605 expansion modules 32-channel increments in 50 MHz mode; 64-channel increments in 25 MHz mode IEEE 488.2 and RS-232C interfaces with dedicated digital word generator command language VXI Bus compatible architecture Typical Applications Digital pattern generation for device simulation, bus testing, and complex sequence control in development and validation environments. Compatibility & Integration Expands with DG605 modules. Supports National Instruments software drivers. Compatible with VXI system architectures.

Features & description

From manufacturer datasheet

Features

- Single-slot C-size VXI message-based word generator
- Three-level looping and data tabling to save vector memory
- Clock-by-clock individual-channel tristate
- Master plus up to three DG605 expanders
- Increment-memory-fill and other high-level vector commands
- IEEE 488.2 common-command subset

DG600 Characteristics / Specifications

PARAMETER	VALUE
Model	DG600
Manufacturer	Interface Technology
Instrument Type	VXI digital word / pattern generator
Alias	DG600; DG600VXI
Form Factor	C-size VXI, single slot
Instrument Class	message-based
Max Pattern Rate	50 MHz
Channels At 50 MHz	16
Channels At 25 MHz	32
Period Range	112 ns to 85 s (Artisan family listing)
Expansion Modules	up to 3 x DG605
Expanded 50 MHz Width	16 to 112 channels in 32 channel increments
Expanded 25 MHz Width	32 to 224 channels in 64 channel increments
Memory Depth Class	16K (family literature)
Looping	three level
Tristate	individual channels, clock by clock
Command Language	dedicated digital word generator plus IEEE 488.2 common commands
Related Expander	DG605
Related Pulse Family	PG100 100 MHz; PG110 300 MHz dual-channel VXI
VXI Size	C-size
Slot Count	1
Host Bus	VXIbus
Vector Commands	increment memory fills and dedicated word generator language

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	
Numeric rows from Interface Technology DG600 product literature as summarized on the Artisan DG600 page and the Interface Technology VXI condensed catalog (50 MHz, 16/32 channels, DG605 expansion widths). Confirm	

installed DG605 count, memory depth on the faceplate/firmware, and VXI chassis slot power. Finer timing/amplitude tables were not in the public extracts used here.

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>

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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.