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Data Sheet

August 15, 2026

DYNAMIC SIGNALS / GAGE

DynamicSignals / GaGe CompuGen 4300 PCI High-Speed Arbitrary Waveform Generator Card

DynamicSignals / GaGe Arbitrary Waveform Generators. Channels: ** 4 simultaneous generation channels, Resolution: ** 12-bit (4096 levels).



MODEL

**DynamicSignals /
GaGe CompuGen
4300**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

CompuGen 4300

LISTING

[https://aumictechlabs.c
om/products/compu
n-4300-3/](https://aumictechlabs.com/products/compu-gen-4300-3/)

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The CompuGen 4300 is a PCI-based arbitrary waveform generator card delivering high-precision analog and digital signal generation across four simultaneous channels. With 12-bit vertical resolution, a 300 MS/s D/A conversion rate, and 4 MegaSamples of on-board memory, it enables creation and output of complex, repeating waveforms for demanding test and simulation environments. Technical Specifications Interface: PCI Bus Channels: 4 simultaneous generation channels Vertical Resolution: 12-bit (4096 levels) Sampling Rate: Up to 300 MS/s On-Board Memory: 4 MegaSamples total (1 MS per channel) Output Impedance: 50 Ω Standard Output Range: ± 0.87 V Rise/Fall Time: 2.5 ns Programmable Attenuator: Up to 31.5 dB in 0.5 dB increments Clock Source: 300 MHz crystal oscillator Key Features Arbitrary waveform generation with high-speed 12-bit DAC conversion Function generator capabilities for both standard and

custom signal synthesis Link'N'Loop mode segments on-board memory for complex pattern sequencing without software intervention during playback Mathematical waveform design via equation entry in included software Free software suite for waveform import, editing, and generation Software Development Kits for C/C++, LabVIEW, and MATLAB integration Typical Applications Stimulus-response test systems RF signal generation and wireless communications testing Manufacturing test and validation Radar signal simulation Optical and magnetic storage media testing Ultrasonic signal generation Video signal generation Network analysis Compatibility & Integration Supports Windows 95, 98, ME, NT, 2000, and XP. SDKs enable integration with C/C++, LabVIEW, and MATLAB development environments.

COMPUGEN4300 Characteristics / Specifications

PARAMETER	VALUE
Model	CompuGen 4300
Instrument Type	PCI arbitrary waveform generator
Channel Count	4
Vertical Resolution	12 bits 4096 levels
Maximum Conversion Rate	300 MS/s
Conversion Rates Selectable	300 MHz 150 MHz 75 MHz
Onboard Memory Total	4 MSamples
Memory Per Channel	1 MSample
Minimum Record Length	16 samples
Maximum Record Length	1 MSample
Record Length Increment	16 samples
Output Range Into 50 Ohm	plus or minus 0.87 V 1.74 Vpp
Attenuator Range	up to 31.5 dB
Attenuator Step	0.5 dB
Output Coupling	DC
Output Impedance	50 ohm
Output Accuracy	plus or minus 3 percent excluding offset
Analog Output Bandwidth	better than 100 MHz
Output Connectors	SMA
Output Frequency Range Class	150 MHz to 75 Hz
Bus Interface	PCI Plug and Play
Multi Card Expansion	up to 16 output channels
Related Model Memory	CompuGen 4302 16 MSamples
Form Factor	PCI card
Manufacturer	GaGe DynamicSignals

PARAMETER	VALUE
Software Class	C C++ and LabVIEW SDKs
Generation Modes	free running and triggered single shot
Bandwidth	better than 100 MHz

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

Generation Modes

free running and triggered single shot

Notes

From GaGe CompuGen 4300/4302 series datasheet and PCI hardware manual specifications.

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.