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Data Sheet

August 15, 2026

GIGATRONICS

Gigatronics GT-1000B Microwave Signal Generator

Aumictech offers NIST-traceable calibration and repair for the Gigatronics GT-1000B. Calibration covers output frequency accuracy, output power level accuracy across the full frequency range, AM/FM/PM/pulse modulation accuracy, harmonic and spurious output levels, and phase noise floor verification. All calibrations ship with a NIST-traceable certificate. Turnaround is typically 1–3 business days after receipt. Common Gigatronics GT-1000B faults: YIG oscillator failure (no output or loss of lock), step attenuator wear (output drops or steps at set attenuation), ALC loop failure (uncontrolled output power), I/Q modulator assembly failure. HP/Agilent 836xx series most common faults are YIG oscillator failure and step attenuator contact wear causing output steps or drops at specific attenuation settings. Keysight E4428C/E4438C units most commonly develop ALC loop failure and I/Q modulator



MODEL

Gigatronics GT-1000B

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

GT-1000B

LISTING

<https://aumictechlabs.com/products/gt-1000b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Gigatronics GT-1000B is a versatile RF signal generator known for its accuracy and stability. It has a broad frequency range and flexible modulation capabilities, suitable for comprehensive

signal simulation and testing. This instrument is valuable for engineers and technicians needing a dependable source for RF signal generation.

GT1000B Characteristics / Specifications

PARAMETER	VALUE
Model	GT-1000B
Instrument Type	solid state microwave power amplifier
Standard Frequency Range	2 GHz to 20 GHz
Extended Frequency Range Option	100 MHz to 18 GHz
Nominal Gain Standard	40 dB
Extended Band Nominal Gain	35 dB
Gain Flatness Standard 2 To 20 GHz	plus or minus 3.5 dB maximum at minus 5 dBm input
Extended Band Gain Flatness 100 MHz To 18 GHz	plus or minus 4.5 dB maximum
Psat 2 To 8 GHz Typical	plus 40 dBm 10 W
Psat 2 To 8 GHz Minimum	plus 38.5 dBm 7 W
Psat 8 To 12 GHz Minimum	plus 37 dBm 5 W
Psat 12 To 18 GHz Minimum	plus 36 dBm 4 W
Psat 18 To 20 GHz Typical	plus 37 dBm 5 W
Extended Band Psat 100 MHz To 8 GHz Minimum	plus 37 dBm 5 W
Maximum Input Power	plus 17 dBm
Test Input For Power Spec	plus 5 dBm into 50 ohm at 23 C plus or minus 5 C
Input Impedance	50 ohm
Output Impedance	50 ohm
Input Vswr Standard	2.0 to 1 maximum
Output Vswr Standard Typical	2.3 to 1
Harmonics Standard Typical	less than minus 30 dBc at plus 27 dBm output
Spurious Typical	less than minus 60 dBc at minus 5 dBm input
Noise Figure Typical	less than 10 dB
Noise Figure Maximum	less than 14 dB

PARAMETER	VALUE
Pulse Rise Fall Time Class	less than 5 ns
Line Voltage	85 to 264 VAC 47 to 63 Hz single phase
Line Power	450 VA maximum
Operating Temperature	0 C to plus 50 C
Storage Temperature	minus 20 C to plus 75 C
Rack Height	3U 5.25 in
Cooling	forced air

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	minus 20 C to plus 75 C
Operating temperature	0 C to plus 50 C
Operating Temperature	0 C to plus 50 C
Rack Height	3U 5.25 in
Cooling	forced air Notes From Giga-tronics / Spanawave GT-1000B Microwave Power Amplifier datasheet. Option 01 coupler/detector reduces rated output power by 1 dB (standard) or 2 dB (Option 06).

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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Extended Frequency Range Option 06	100 MHz to 18 GHz
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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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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.