



The Titan System

## GT-2620B High-Power Microwave Signal Generator System 2 GHz to 20 GHz

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Broadband High-Power Microwave Signal Generator

### The Titan System

#### High-Power Signal Generation

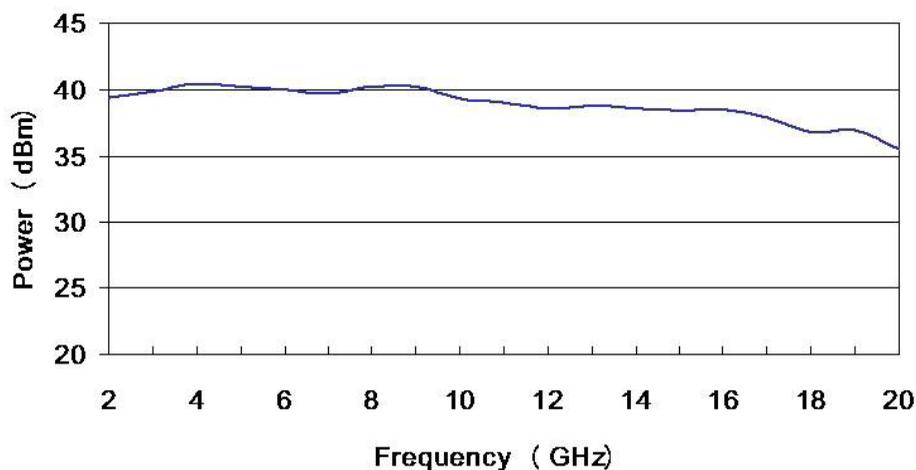
Ideal for Microwave R&D labs, Antenna, EMC, and EW Test Applications

- 2 GHz to 20 GHz, up to +40 dBm (10 Watts)
- Solid-State Broadband - No TWTA, No Switching of Narrowband Amplifiers
- Amplifier Output Power Set Directly on the Signal Generator
- High stability Time Base for excellent Frequency Accuracy
- Low Phase Noise, Low Harmonics and Low Spurious for Super Clean Signals

The GT-2620B High-Power Microwave Signal Generator System, Giga-tronics' Titan System, provides significantly higher power levels at microwave frequencies than are available from stand-alone signal generators, while maintaining a calibrated level controlled by the signal generator. This capability provides benefits in test productivity and throughput, eliminating the time and cost of manually measuring and setting the amplifier output power level, or developing and automating an external measurement scheme.

The Titan System is built around the Giga-tronics 2520B high-performance microwave signal generator featuring Giga-tronics patented Accumulative High Frequency Feedback (AHFF) technology that delivers excellent close-in phase noise and fast switching speed, and the Giga-tronics GT-1000A microwave power amplifier incorporating Spatium™ spatially-combining solid-state amplifier technology that delivers exceptionally wide bandwidth, low noise amplification.

Typical Output Power



# GT-2620B High-Power Microwave Signal Generator System

## Technical Specifications

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### Frequency Range

2 GHz to 20 GHz

### Output Power

Output power is specified as minimum saturated power into 50 Ohms load, at 23°C ± 5°C.

Frequency	Specifications
2 to 8 GHz	+40 dBm (10 Watts) typical, +38.5 (7 Watts) minimum
8 to 12 GHz	+38.5 dBm (7 Watts) typical, +37 (5 Watts) minimum
12 to 18 GHz	+37 dBm (5 Watts) typical, +36 (4 Watts) minimum
18 to 20 GHz	+36 dBm (4 Watts) typical

### Leveled Output Power Control Range

0 dBm up to the minimum saturated output power.

### Output Power Accuracy<sup>1</sup>

+/- 1.0 dB

### All Other Specifications

For all other specifications, refer to the individual instrument technical datasheets

- Giga-tronics 2500B Microwave Signal Generator
- Giga-tronics GT-1000A Microwave Power Amplifier

### Calibration

The Titan System is calibrated at the factory and the recommended calibration cycle is one year. User calibration is available and easy, run directly from the Signal Generator front panel, and requires the Giga-tronics 8650A Universal Power Meter and 80325A 50 Watt Power Sensor. This user calibration can also include cable loss correction to a device under test (DUT), supplying calibrated power levels at the DUT.

<sup>1</sup> Measured using a Giga-tronics Power Meter (8651A and 80352A Sensor) within ± 5°C of the calibration temperature  
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## Ordering Information

Giga-tronics has a network of RF and Microwave instrumentation sales engineers and a staff of factory support personnel to help you find the best, most economical instrument for your specific applications. In addition to helping you select the best instrument for your needs, our staff can provide quotations, assist you in placing orders, and do everything necessary to ensure that your business transactions with Giga-tronics are handled efficiently.

Model Number	Description
GT-2620B	2 to 20 GHz High-Power Microwave Signal Generator System

### Available Options and Accessories

Option	Description
01	Replace 2520B with 2420C Microwave Signal Generator
02	Add 100 kHz to 2 GHz frequency range (with 2520B) Add 10 MHz to 2 GHz frequency range (with 2420C)
03	Add Modulation (internal and external AM, FM and Pulse)
04	Add Mechanical Step Attenuator
05	Add 8651A Universal Power Meter (Single Input) Add 80325A Power Sensor, 50 Watt, 10 MHz to 18 GHz
06	Add 8652A Universal Power Meter (Dual Input) Add 80325A Power Sensor, 50 Watt, 10 MHz to 18 GHz

### Items included with the GT-2620B

Item	Description
2520B	Microwave Signal Generator, 2 GHz to 20 GHz Option 22, Rear Panel RF Output
GT-1000A	Microwave Power Amplifier, 2 GHz to 20 GHz Option 01, Adds Coupler/Detector Option 03, Type-N Output Connector

## Giga-tronics Support Services

At Giga-tronics, we understand the challenges you face. Our support services begin from the moment you call us. We help you achieve both top-line growth and bottom-line efficiencies by working to identify your precise needs and implement smart and result orientated solutions. We believe and commit ourselves in providing you with more than our superior test solutions. For technical support, contact:

Tel: 1-800-726-GIGA (4442) or (925) 328-4669  
Email: [support@gigatronics.com](mailto:support@gigatronics.com)

## Updates

All data is subject to change without notice. For the latest information on Giga-tronics products and applications, please visit our website:

<http://www.gigatronics.com>



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