



**DS INSTRUMENTS**

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REV14

## SG6000L – COMPACT USB WIDEBAND 6GHZ RF SIGNAL GENERATOR



*Welcome to the industry standard for compact and affordable automated signal generation!*

Simple to control in stand-alone mode, easy to program in automated setups via serial commands over the driverless USB connection, Ethernet, or our included PC software.

### Models and Options

- Optional Ethernet connection (SG6000E)
- Low frequency version (SG4400L)
- No display version (SG6000)
- Optional harmonic filtering (SG6000F)
- Internal Li-Ion battery (SG6000B)
- Dual-channel version (SG6000X)
- Low phase-noise version (SG6000PRO)
- 12GHz frequency range (SG12000)
- 22GHz Ku-band version (SG6000LDQ)



### 2018 New Features!

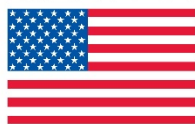
- Power Calibration improvements
- RF-OFF state signal leakage reduced
- Improved GUI control software
- Lower USB power usage
- Lower harmonics
- External reference source auto-detect
- USB low-voltage warning

### SG6000 Specifications:

- Frequency Range: 24-6000 MHz
- Calibrated power output (-20 to +10dBm)
- Phase Noise 6GHz: -74dBc (10KHz offset)
- Harmonics: < -12dBc typical
- Max output power: > +13dBm
- Attenuator (digital): 64x 0.5dB Steps
- Attenuator (variable): ~20dB (10 bit DAC)
- Dimensions: 2.75" x 1.25" x 2.15"
- Min frequency step size: 40Hz – 3KHz
- Input Voltage: 5V Standard micro-USB
- Output Impedance: 50 Ohm
- RF Connectors: Premium microwave SMA
- Reference input: 10MHz MCX
- Internal reference: 10MHz ( $\pm 2.5$ PPM)

Visit us for control software and tech support: [www.dsinstruments.com/downloads/](http://www.dsinstruments.com/downloads/)

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Please see the full datasheet for more information.

*Thanks for your business!*

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