

# **DUAL 6GHZ SIGNAL GENERATOR**



## Description

The DS Instruments SG6000X Dual RF Signal Generator continues to set the industry standard in affordable ultra-compact RF Signal Generation. The SG6000X enables users to generate two separate high quality RF signals easily and at extremely low cost without need for a host PC. This fully synthesized, modern fractional N synthesis device covers 7 octaves from 25 to 6000 MHz. Max output power is typically above +10 dBm and can be adjusted downward in 0.5dB steps, or

continuously via the internal variable attenuator. The crisp OLED display provides useful feedback for the user, and front control buttons provide a quick alternative to USB control. Like most of our products, the  $\mathbf{SG6000X}$  easily fits in the palm of your hand, making it a truly portable and bench-space-saving device.

### Now shipping REV 6 for 2021!

#### **SG6000X Features:**

- Two completely independent signal source channels
- Stand-alone and USB remote operation
- Up to 6GHz output frequency
- Adjustable output power (Independent Step & Variable)
- Industry-standard SCPI command support
- Internal ±2.5PPM 10MHz TCXO
- External 10MHz MCX reference port
- Front user frequency step buttons
- Front-mounted bright OLED display
- Sturdy all-aluminum enclosure
- Simple Windows control GUI
- Powered from standard USB Type-C like a smartphone
- Easy to interface with all software packages (Matlab, python, android, linux, ios...)

## Dual RF Signal Generator Specifications:

- Frequency Range: 25-6000 MHz
- Calibrated Power Level: -35dBm to >+10 dBm
- Phase Noise: -74dBc @ 10KHz offset
- Internal Attenuator (digital): 64x 0.5dB Steps
- Internal Attenuator (variable): ~10dB (10 bit DAC)
- Dimensions: 2.75" x 1.25" x 3.15"
- Power Input: 5V USB Type-C (1.2A)
- Output Impedance: 50 Ohm
- RF Connectors: 2X Premium gold microwave SMA

## SG6000X Common Applications:

- Automated testing environments
- General RF Lab use
- Flexible LO sourcing
- Antenna design
- EMC Testing
- Production verification and testing
- Educational / university lab use
- Aerospace / Defense Research
- 802.11n Development / Testing
- LTE Engineering

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