



- Frequency range: 10 MHz to 6 GHz
- Power range: -110 dBm to +10 dBm
- Full range of common digital modulation signals available
- USB controlled
- API accessible for system integration

G6 is a high performance, scalable Vector Signal Generator. It is designed and built by Transcom and features state of the art functionality. G6 VSG can generate a multitude of signals, including: CW, standard radio signals, common vector and digital modulation signals, as well as arbitrary and customized signals. Common Telecommunications modulation schemes are available as options.

G6 Vector Signal Generator is perfectly suited for R&D, production, Q&A, but also excellent for educational applications. Furthermore, it can be utilized in EW and defense applications for electronics countermeasure set-ups. All this is available at a very affordable base price and additional features that are only paid for if really needed. G6 Vector Signal Generator satisfies current and future technologies.

Features

- Full range of available digital modulation: BSPK, QPSK, OQPSK, 8PSK, 16QAM, 32QAM, 64QAM, MSK, output linearity, log scan and multiple modulation mode
- Pulse modulation
- Variety of common signals available including GSM, EDGE, CDMA, TS-SCDMA, WCDMA, CDMA2000, TD-LTE, FDD-LTE, NB-IoT and LoRa. Users can modify channel settings.
- Highly customized signals can be generated by loading digitized signal data.

Related products

A6 Signal Analyzer



RF & Microwave Technology

AWT-Global provides advanced telecommunication technology products and analyzers for a variety of RF and Microwave applications.

AWT Global Inc
 46 Countryside Apts.
 Building 6, Suite 46
 Hackettstown NJ 07840
 USA
 p: +1 (973) 321-3423
 e: info@awt-global.com
 w: awt-global.com

Technical Specifications

Measurement Range		General Data	
Impedance	50 Ω ,	External reference frequency	BNC (f), 10MHz, 2 dBm +/- 2 dB
Test port connector	N-type (f)	Operating temperature	+5° to +40°C
Frequency range:	10 MHz to 6 GHz	Storage temperature	-45° to +55°C
Frequency resolution	1 Hz	Humidity (max.)	90% (25°C)
Frequency accuracy over temperature	+/- 1 x 10 ⁻⁶	Atmospheric pressure	84 to 106.7 kPa
Output power:	- 110 dBm to +10dBm	Calibration Interval	3 years
Output power increments:	0.1 dB	Power Supply	110-240 (AC), 50/60 Hz to 12V DC
Output power accuracy:	+/- 1.5 dB	Current	2A (@ 12VDC)
Harmonics:	< -30 dBc	Dimensions mm / in (W x H x D)	180 x 50 x 290 / 7.1 x 2.0 x 11.4
Spurious:	< -55 dBc		
SSB Phase Noise:	< -105dBc/Hz @10kHz (1GHz)		
Modulation Bandwidth:	20 MHz (can scale to 40 MHz)		
EVM	<2% RMS		
Frequency Error:	better than +/-10 Hz		
Phase Error:	better than +/- 3°		
Waveform Quality p	> 0.9999		

Order Information

Model	Description
G6	G6 USB Vector Signal Generator, 10 MHz to 6 GHz
G6A-MODPAK	BPSK, QPSK, OQPSK, 8PSK, 16QAM, 32QAM, 64QAM, MSK, FSK, output linearity, log scan and multiple modulation mode
G6A-PULSE	Pulse Modulation
G6A-S001	GSM Option
G6A-S002	WCDMA Option
G6A-S003	TTD-LTE Option
G6A-S004	FDD-LTE Option
G6A-S005	NB-IoT Option
G6A-S006	LoRa Option
G6A-S007	TD-SCDMA Option
G6A-S008	Loadable datapoints for customized signals
G6A-S009	Sweep Mode Option

