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SIGLENT

RF & Waveform Generators

Product Selection Guide

Every Bench.
Every Engineer.
Every Day.

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RF Signal Generator

SSG6000A Series

SSG6087A (CW MODE 100 kHz ~ 40 GHz)
SSG6085A *(CW MODE* 100 kHz ~ 20 GHz)
SSG6083A *(CW MODE* 100 kHz ~ 13.6 GHz)

Features and Benefits

- Frequency up to 13.6 GHz/ 20 GHz/ 40GHz
- 0.001 Hz frequency setting resolution
- Level setting range: -130 dBm ~ 24 dBm
- Phase Noise: -135 dBc / Hz @ 1 GHz, 20 kHz offset (typ.)
- Level error < 0.7 dB (typ.)
- Provides AM/PM/FM analog modulation with internal, external or Int+Ext source
- Single pulse, double pulse and pulse train generator (option)
- The power meter control kit can easily use the power meter to measure power, control power output and correct line loss 5 inch TFT capacitive touch screen, mouse and keyboard supported
- Web browser remote control on PC and mobile terminals
- Standard interface includes USB Host, USB Device (USB TMC), LAN (VXI-11, Socket, Telnet). Optional interface: GPIB
- Standard OCXO and step attenuator (0 to 110 dB, 10 dB step)

SSG5000A Series

SSG5085A *(CW MODE* 9 kHz ~ 20 GHz)
SSG5083A *(CW MODE* 9 kHz ~ 13.6 GHz)

Features and Benefits

- Frequency up to 13.6 GHz / 20 GHz
- 0.001 Hz frequency setting resolution
- Level setting range: -130 dBm ~ 25 dBm
- Phase Noise: -120 dBc / Hz @ 1 GHz, 20 kHz offset (typ.)
- Level error < 0.7 dB (typ.)
- Provides AM, FM, PM analog modulation with internal, external or Int+Ext source
- Single pulse, double pulse and pulse train generator (option)
- The power meter control kit can easily use the power meter to measure power, control power output and correct line loss
- 5 inch TFT capacitive touch screen, mouse and keyboard supported
- Web browser remote control on PC and mobile terminals
- Standard interface includes USB Host, USB Device (USB TMC), LAN (VXI-11, Socket, Telnet). Optional interface: GPIB

RF Signal Generator

SSG6082A-V

SSG6082A-V
(CW MODE 9 kHz~8 GHz/IQ MODE 10 MHz~8 GHz)

Features and Benefits

- Highest Frequency: 8 GHz
- Output Frequency Resolution: Up to 0.001 Hz
- Level Setting Range: -140 dBm to 30 dBm
- Phase Noise: < -132 dBc/Hz @ 1 GHz, offset 10 kHz (typical value)
- Amplitude Accuracy: < 0.7 dB (typical value)
- Modulation Support: Supports AM/FM/PM analog modulation, internal and external modulation options.
- Pulse Modulation: Supports pulse modulation function, pulse train generator, and user-defined pulse sequences (optional).
- General Modulation: Capable of real-time output of QAM, FSK, ASK, PSK, multi-tone, and various other modulated signals. Supports playback of waveform files and sequences.
- Support waveform file playback: waveform sequence generation and playback.
- Communication Protocol Signals: Supports generation of common communication protocol signals such as 5G NR, WLAN, LTE, BLUETOOTH, IOT, etc., when used with SigIQPro software.
- MIMO and Other Applications: Supports MIMO and various other application scenarios.
- Real-time IQ Baseband AWGN: Supports real-time IQ baseband AWGN, allowing accurate control of signal and noise power, simplifying additional measurements and calculations required for receiver measurements.
- Power Meter Control Kit: Facilitates power measurement, control of power output, and line loss correction using a power meter.
- Vector Mode S-Parameter Compensation: Supports S-parameter compensation in vector mode to optimize the broadband characteristics of the test system.
- Web Remote Control: Supports web remote control for convenient remote operation by users.

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RF Signal Generator

SSG5000X Series

SSG5060X (CW MODE 9 kHz ~ 6 GHz)
SSG5040X (CW MODE 9 kHz ~ 4 GHz)
SSG5060X-V (CW MODE 9 kHz ~ 6 GHz / IQ MODE 10 MHz ~ 6 GHz)
SSG5040X-V (CW MODE 9 kHz ~ 4 GHz / IQ MODE 10 MHz ~ 4 GHz)

Features and Benefits

- Frequency up to 4 GHz/6 GHz
- 0.001 Hz frequency setting resolution
- High output power up to+26 dBm (typ.)
- Phase Noise: -120 dBc/ Hz @ 1 GHz, 20 kHz offset (typ.)
- User flatness correction with power sensor to correct the cable loss
- Provides AM, FM, PM analog modulation with internal, external or Int+Ext source
- Single pulse, double pulse and Pulse train generator (option)
- Internal IQ modulation with 150 MHz modulation bandwidth with perfect in¬ factory calibration
- Internal include some digital communication stand file such as 5G-NR, LTE, WCDMA, WLAN, and playback them
- Internal Custom mode generate common IQ signal such as QAM, FSK, ASK, MSK
- Analog differential I/Q outputs
- External analog I/Q input
- USB-power meter measurement
- 5inch TFT capacitive touch screen, mouse and keyboard supported
- Web browser remote control on PC and mobile terminals
- Standard interface included USB Host, USB Device (USB TMC), LAN (VXI-11, Socket, Telnet). Optional interface: GPIB

RF Signal Generator

SSG3000X Series

SSG3032X (CW MODE 9 kHz~3.2 GHz)
SSG3021X (CW MODE 9 kHz~2.1 GHz)
SSG3032X-IQE (IQ MODE 10 MHz~3.2 GHz)
SSG3021X-IQE (IQ MODE 10 MHz~2.1 GHz)

Features and Benefits

- 0.01 Hz frequency setting resolution
- Level output from-110 dBm to+13 dBm
- Maximum level up to +20 dBm (typ.)
- Phase Noise: -110 dBc/ Hz @ 1 GHz , 20 kHz offset (typ.)
- Level accuracy <0.7 dB (typ.)
- Provides AM, FM, &PM analog modulation with internal, external or Int+Ext source
- Pulse modulation, on/off ratio >70 dBc
- Pulse train generator (option)
- External IQ modulation with SDG6000X as the baseband IQ signal
- USB-power meter measurement
- 5 inch TFT capacitive touch screen, mouse and keyboard supported
- Web browser remote control on PC and mobile terminals
- Standard interface include USB Host, USB Device (USB TMC), LAN (VXI-11, Socket, Telnet). Optional interface: GPIB

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Arbitrary Waveform Generator

SDG7000A Series

SDG7102A (1 GHz)
SDG7052A (500 MHz)
SDG7032A (350 MHz)

Features and Benefits

- Dual channel differential/single-ended output, 16-bit LVDS/LVTTL digital bus output
- High-performance sampling system with 5 GSa/s sample rate and 14 -bit vertical resolution
  1 GHz maximum bandwidth
- Generates arbitrary waveform with sample rates of 0.01 Sa/s ~ 2.5 GSa/s, with maximum memory depth of 512 Mpts, and provides segment editing / playback functions
- Generates vector signals with up to 500 MS/s symbol rate
  Generates lowjitter pulses with 1 ns minimum pulse width and 500 ps minimum edge
- Up to 1 GHz bandwidth White Gaussian Noise and the bandwidth is adjustable
- Supports PRBS up to 312.5 Mbps
- The digital bus can output digital signals up to 1 Gbps.
- Supports analog/digital modulation, sweeping and bursting
  Enhanced dual channel operation functions: inter channel tracking, coupling and copying; Dual channel superposition function; Supports mutual modulation between channels
- The 24 Vpp analog output is superimposed with ± 12 Vdc offset to provide a maximum output range of ± 24 V (48 V)
- High precision Frequency Counter
- 5-inch capacitive touch screen with resolution of 800x480; Supports external mouse and keyboard operation; Supports Webserver to control the instruments remotely
- Supports multiple interfaces: 10 MHz In, 10 MHz Out, Trigger In/Out, Markers etc
- Supports SCPI command for easy integration into test systems

Function/Arbitrary Waveform Generator

SDG6000X Series

SDG6052X (500 MHz)
SDG6032X (350 MHz)
SDG6022X (200 MHz)

Features and Benefits

- Dual-Channel, 500 MHz maximum bandwidth, 20 Vpp maximum output amplitude, high fidelity output with 80 dB dynamic range
  High-performance sampling system with 2.4 GSa/s sampling rate and 16-bit vertical resolution
- Multi-function signal generator, meeting requirements in wide range, Continuous Wave Generator, Pulse Generator, Function Arbitrary Waveform Generator, IQ Signal Generator (optional), Noise Generator, PRBS Generator Sweep and Burst function
- Plenty of analog and digital modulation types: AM, DSB-AM, FM, PM, FSK, ASK, PSK and PWM
  Harmonics function
- Multi-pulse output function can be used to measure the switching parameters
- of power devices and evaluate its dynamic characteristics
- Supports sequence wave playback function, maximum storage depth per channel 20 Mpts
- Waveform Combining function
- Channel Coupling, Copy and Tracking function
- 196 built-in arbitrary waveforms
- High precision Frequency Counter
- Standard interfaces include: USB Host, USB Device (USBTMC), LAN (VXI-11, Socket, Telnet). Optional Interface: GPIB
  4.3" touch screen display for easier operation

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Function/Arbitrary Waveform Generator

SDG2000X Series

SDG2122X (120 MHz)
SDG2082X (80 MHz)
SDG2042X (40 MHz)

Features and Benefits

- Dual-channel, 120MHz maximum bandwidth, 20Vpp maximum output amplitude, high fidelity output with 80dB dynamic range
- High-performance sampling system with 1.2GSa/s sampling rate and 16-bit vertical resolution. No detail in your waveforms will be lost
- Innovative TrueArb technology, based on a point-by-point architecture, supports any 8pts~8Mpts Arb waveform with a sampling rate in range of lpSa/s~75MSa/s
- Innovative EasyPulse technology, capable of generating lower jitter Square or Pulse waveforms, brings a wide range and extremely high precision in pulse width and rise/fall times adjustment
- Plenty of analog and digital modulation types: AM, DSB-AM, FM, PM, FSK, ASK, PSK and PWM
- Sweep and Burst function Harmonic function
- 196 built-in arbitrary waveforms High precision Frequency Counter
- Standard interfaces: USB Host, USB Device (USBTMC), LAN (VXI-11)
- Optional interface: GPIB
- 4.3" touch screen display for easier operation

SDG1000X Series

SDG1062X (60 MHz)
SDG1032X (30 MHz)

Features and Benefits

- 150 MSa/s sampling rate, 14-bit vertical resolution, and 16 kpts waveform length
- Innovative TrueArb and EasyPulse technology
- Special circuit for Square wave function, can generate Square waves up to 60 MHz with jitter less than 300 ps+0.05 ppm of period
- Plenty of analog and digital modulation types: AM, DSB-AM, FM, PM, FSK, ASK, PSK and PWM, Sweep and Burst functions
- Waveform Combining function
- High precision Frequency Counter
- Standard interfaces: USB Host, USB Device (USBTMC), LAN (VXI-11)
- Optional interface: GPIB

SDG800 Series

SDG830 (30 MHz)
SDG810 (10 MHz)

Features and Benefits

- Advanced DDS technology, 3.5 inch color TFT-LCD
- 125 MSa/s sampling rate,14 bit vertical resolution,16 Kpts max wave length
- 5 types of standard waveforms, built-in 46 types of arbitrary waveforms, sync signal output, 1 pHz frequency resolution
- Complete modulation functions: AM,DSB-AM, FM, PM, FSK, ASK, PWM, linear/ logarithmic sweep and burst
- Innovative EasyPulse technology, can output pulse of low jitter, quick rising/ falling edge
- Support USB-TMC protocol and SCPI programming command control
- Arbitrary waveform edit software, provides lots of painting method, capable of edit complicate waveform quickly and precisely

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Function/Arbitrary Waveform Generator iProgrammable Switching DC Power Supply

SDG1000X Plus Series

SDG1062X Plus (60 MHz)
SDG1032X Plus (30 MHz)
SDG1022X Plus (25 MHz)

Features and Benefits

- Dual channel, maximum output frequency 60 MHz, maximum output amplitude 20 Vpp
- 1 GSa/s digital-to-analog converter sampling rate,16-bit vertical resolution
- Innovative TrueArb technology, based on a point-by-point architecture, supports any 24pts ~ 8Mpts Arb waveform with a sampling rate in range of 1 pSa/s ~250 MSa/s
- Supports sequence wave playback function, maximum storage depth per channel 8 Mpts
- Multi-pulse output function can be used to measure the switching parameters of power equipment and evaluate its dynamic characteristics
- Supports PRBS up to 40 Mbps
- Plenty of analog and digital modulation types: AM, DSB-AM, FM, PM, FSK, ASK, PSK and PWM
- Sweep and Burst function
- Harmonic function
- Waveform Combining function
- Standard interfaces: USB Host, USB Device (USBTMC), LAN (VXI-11)

SPS6000X Series

SPS6225X (200 V,25 A)
SPS6150X (100 V,50 A)

Features and Benefits

- Rated Voltage: 200 V / 100 V
- Rated Current: 25 A / 50 A
- Rated power: 1500 W
- Wide range of output voltage and current values in a high-efficiency power supply
- CV, CC priority mode selection, better protection of equipment under test
- Load transient recovery time (Load change from 50^100%) < 2.5 ms
- Adjustable voltage and current slew rates
- Setting and readback resolution: 10 mV, 10 mA
- User-enabled internal output discharge circuit to accelerate output voltage reduction
- Remote Sense function to decrease lead resistance error
- Local list function with up to 50 steps, USB import list sequence file
- External analog voltage control. Voltage and current monitoring outputs
- OVP, OCP, LPP, OTP protection
- 3.12-inch OLED high-brightness display with a wide viewing angle of 170 degrees
- Equipped with USB, LAN standard communication interface, optional USB-GPIB module
- 44 mm (1U) height, 19" width for convenient rack mounting
- Embedded Web Server offers remote control through a web browser without the need for drivers or additional software

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About Saifko Technologies

Saifko Technologies Pvt. Ltd. is a leading provider of advanced test and measurement solutions, offering end-to-end services from procurement and customization to integration of high-performance equipment. We deliver tailored solutions across industries like Aerospace, Defense, Telecommunications, Automotive, Medical, Semiconductors, Industrial Automation, White Goods, and Electronics. Driven by innovation, we engineer future-ready test systems, including custom ATE and integrated platforms, empowering clients with precise, efficient, and scalable testing. Our expertise covers the entire product lifecycle, from ideation to execution, offering versatile solutions from standalone units to turnkey systems. **Fundamentally, we optimize technical performance and cost-effectiveness, enabling clients to stay ahead in the rapidly evolving tech landscape**

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