SDG1000X Series

Function/Arbitrary
Waveform Generator



DataSheet-2017.05



SDG1062X SDG1032X

Overview

SIGLENT's SDG1000X is a series of dual-channel function/arbitrary waveform generators with specifications that include up to 60 MHz maximum bandwidth, 150 MSa/s sampling rate and 14-bit vertical resolution. The proprietary EasyPulse technique helps to solve the weaknesses inherent in traditional DDS generators when generating pulse waveforms, and the special square generator is capable of generating square waveforms up to 60 MHz in frequency with low jitter. With these advantages, the SDG1000X can provide users with a variety of high fidelity / low jitter signals while meeting the growing requirements of a wide range of complex and varied applications.

Key Features

- Dual-channel, with bandwidth up to 60 MHz, and amplitude up to 20 Vpp
- Innovative EasyPulse technology, capable of generating lowerjitter Pulse waveforms, brings a wide range and extremely high precision in pulse width and rise/fall times adjustment
- 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
- Harmonics Generator function
- Maveform Combining function
- High precision Frequency Counter
- Standard interfaces: USB Host, USB Device (USBTMC), LAN (VXI 11)
- 4.3" TFT-LCD display



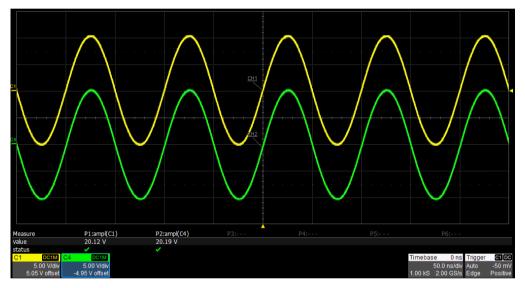
Models and Key Specifications

| Product Model | SDG1062X | SDG1032X |
|---------------------|-------------------------------------|----------|
| Bandwidth | 60 MHz | 30 MHz |
| Sampling rate | 150 MSa/s | |
| Vertical resolution | 14-bit | |
| Waveform Length | 16 kpts | |
| Num. of channels | 2 | |
| Max. amplitude | ±10 V | |
| Display | 4.3" display, 480 x 272 x RGB | |
| Interface | Standard: USB Host, USB Device, LAN | |

Characteristics

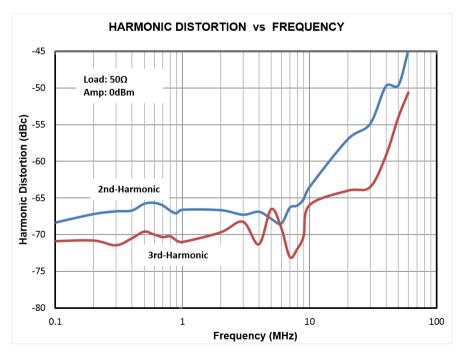
Identical dual output-channels with high performance

Capable of outputting large signals at high frequencies. dual-channels, 20 Vpp amplitude can be guaranteed at up to 10 MHz.

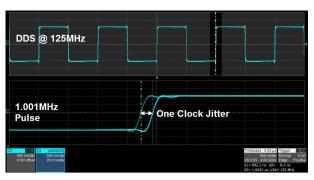


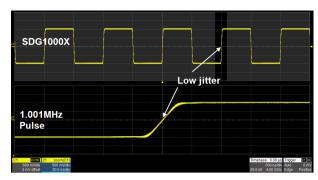
Low Distortion Output

With 0 dBm output, the THD (Total Harmonic Distortion) is less than 0.075%. Harmonics and spurs are less than -40 dBc throughout the entire bandwidth.

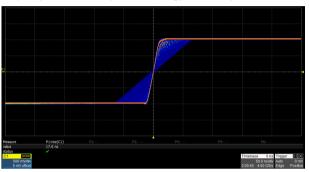


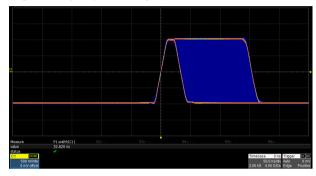
Innovative EasyPulse Technology





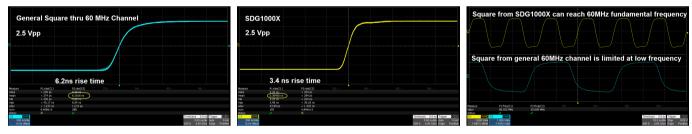
When a Pulse waveform is generated by a common DDS generator, there will be a one-clock-jitter if the sampling rate is not an integer-related multiple of the output frequency. SDG1000X EasyPulse technology successfully overcomes this weakness in DDS designs and helps to produce low jitter Pulse waveforms.



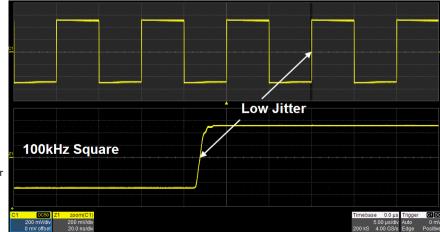


The rise/fall times can be set independently to the minimum of 16.8 ns at any frequency and to the maximum of 22.4 s. The adjustment step is as small as 100 ps. The Pulse width can be fine-tuned to the minimum of 32.6 ns with the adjustment step as small as 100ps.

High performance Square Waves



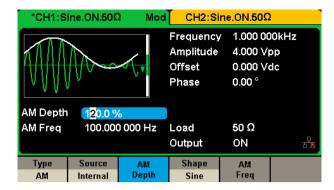
Benefitting from a special square-wave generating circuitry, the Square from the SDG1000X breaks the 60 MHz bandwidth barrier, reaching rise/fall times of less than 4.2 ns, and frequencies up to 60 MHz.



The Square wave exhibits the same excellent jitter performance as the Pulse waveform.

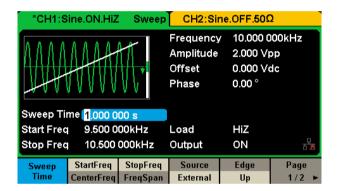
Characteristics

Modulation



Multiple modulation types: AM, DSB-AM, FM, PM, FSK, ASK, PSK and PWM. The modulation source can be configured as "Internal" or "External".

Sweep



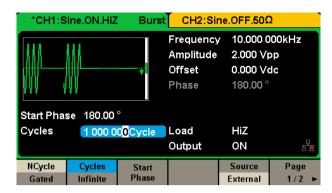
Two Sweep modes, "Linear" and "Log". Two Sweep directions, "Up" and "Down" and three Sweep sources, "Internal", "External" and "Manual".

Harmonics Function



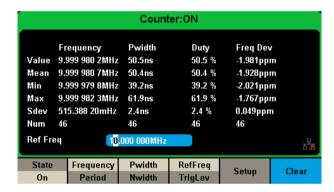
Up to 10 harmonics may be generated. Amplitude and phase of each harmonic can be set independently

Burst



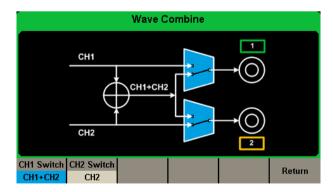
Two Burst modes, "N cycle" and "Gated". The Burst source can be configured as "Internal", "External" or "Manual".

Frequency Counter



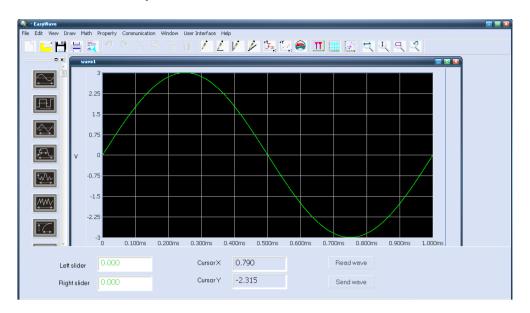
High precision Frequency Counter with an input frequency range of $0.1~\text{Hz}{\sim}200~\text{MHz}.$

Waveform Combining



Capable of combining the waveforms of 2 channels from internal, providing more flexible tools to generate complex waveforms.

Arbitrary Waveform Software EasyWave



EasyWave is a powerful arbitrary waveform editing software program that supports several ways to generate arbitrary waveform such as manual drawing, line-drawing, equation-drawing, coordinate-drawing, etc. It is quite convenient for users to edit their own arbitrary waveforms through EasyWave.

Specifications

All specifications apply to both channels. Unless otherwise stated, all specifications are not guaranteed unless the following conditions are met:

- The generator is within calibration period of validity
- The generator has been working continuously for at least 30 minutes at a specified temperature (18 $^{\circ}$ C \sim 28 $^{\circ}$ C).

| Frequency Characteristics | | | | | | | |
|---------------------------|------|------|------|------|-----------------------------|--|--|
| Parameter | Min. | Тур. | Max. | Unit | Condition | | |
| Resolution | | | 1μ | Hz | | | |
| Initial accuracy | -25 | | +25 | ppm | 1 st year, 0~40℃ | | |

| Sine Characteristics | | | | | |
|---------------------------|------|------|-------|------|-------------------------------|
| Parameter | Min. | Тур. | Max. | Unit | Condition |
| Frequency | 1 μ | | 60 M | Hz | SDG1062X |
| | | | 30 M | | SDG1032X |
| | | | -60 | dBc | 0 dBm, 0~10 MHz (included) |
| Harmonic distortion | | | -50 | dBc | 0 dBm, 10~30 MHz (included) |
| | | | -40 | dBc | 0 dBm, 30~60 MHz |
| Total Harmonic Distortion | | | 0.075 | | 0 dBm, 10 Hz ~ 20 kHz |
| Non harmonic enurious | | | -65 | dBc | 0 dBm, 0~10 MHz (included) |
| Non-harmonic spurious | | | -55 | dBc | 0 dBm, 10~30 MHz (included) |
| | | | -40 | dBc | 0 dBm, 30~60 MHz |

| Square Characteristics | | | | | |
|-------------------------------|-------|------|-----------------------------------|------|---|
| Parameter | Min. | Тур. | Max. | Unit | Condition |
| Frequency | 1 μ | | 60 M | Hz | SDG1062X |
| | | | 30 M | | SDG1032X |
| Rise/fall times | | | 4.2 | ns | 10% \sim 90%, 1 Vpp, 50 Ω load |
| | | | 3.8 | ns | 10% \sim 90%, 2.5 Vpp, 50 Ω load |
| Overshoot | | | 3 | % | 100 kHz, 1 Vpp, 50 Ω load |
| Duty cycle | 0.001 | | 99.999 | % | Limited by frequency setting |
| Jitter (rms), Cycle to cycle | | | 300 ps + 0.05 ppm of period | | 1 Vpp, 50 Ω load |

| Pulse Characteristics | | | | | |
|------------------------------|--------|------|-----------------------------------|------|---|
| Parameter | Min. | Тур. | Max. | Unit | Condition |
| Frequency | 1 μ | | 12.5 M | Hz | |
| Pulse width | 32.6 | | | ns | |
| Pulse width accuracy | | | ±(0.01%+1 ns) | | |
| Rise/fall times | 16.8 n | | 22.4 | S | $10\% \sim 90\%, 1$ Vpp, $50~\Omega$ load , Subject to pulse width limits |
| Overshoot | | | 3 | % | 100 kHz, 1 Vpp |
| Duty cycle | 0.001 | | 99.999 | % | Limited by frequency setting |
| Duty cycle resolution | 0.001 | | | % | |
| Jitter (rms) cycle to cycle | | | 300 ps + 0.05 ppm of period | ps | 1 Vpp, 50 Ω load |

| Noise Characteristics | | | | | | |
|------------------------------|------|------|------|------|-----------|--|
| Parameter | Min. | Тур. | Max. | Unit | Condition | |
| -3 dB bandwidth | 60 | | | MHz | | |

| Ramp Characteristics | | | | | |
|----------------------|------|------|-------|------|--|
| Parameter | Min. | Тур. | Max. | Unit | Condition |
| Frequency | 1 μ | | 500 k | Hz | |
| Symmetry | 0 | | 100 | % | |
| Linearity | | | 1 | % | Percentage of peak-peak output, 1 kHz, 1 Vpp, 100% |

| Arbitrary Wave characteristics | | | | | | |
|--------------------------------|-------|-------|------|------|-----------|--|
| Parameter | Min. | Тур. | Max. | Unit | Condition | |
| Frequency | 1 μ | | 6 M | Hz | | |
| Waveform length | 16 k | 16 k | | | | |
| Sampling rate | 150 M | 150 M | | | | |
| Vertical solution | 14 | | | bit | | |
| Jitter (pk-pk) | | 6.7 | | ns | | |
| Types of built-in Arb | 196 | | | | | |

| DC Characteristics | | | | | | |
|--------------------|------------|------|------|----------|-----------|--|
| Parameter | Min. | Тур. | Max. | Unit | Condition | |
| Dange | -10 | | 10 | V | HiZ load | |
| Range | -5 | | 5 | V | 50 Ω load | |
| Accuracy | ±(1%+3 mV) | | | HiZ load | | |

| Harmonic Output Characteristics | | | | | | |
|---------------------------------|----------------|------|------|------|-----------|--|
| Parameter | Min. | Тур. | Max. | Unit | Condition | |
| Order | | | 10 | | | |
| Туре | Even, Odd, All | | | | | |

| Output Characterisic | S | | | | |
|--------------------------------------|-----------|------|------|------|--|
| Parameter | Min. | Тур. | Max. | Unit | Condition |
| Range | 4 m | | 20 | Vpp | ≤ 10 MHz, HiZ load |
| (Note 1) | 4 m | | 10 | Vpp | >10 MHz, HiZ load |
| Accuracy | ±(1%+1 mV | (pp) | | | 10 kHz sine, 0 V offset |
| Amplitude flatness | -0.3 | | +0.3 | dB | $50\;\Omega$ load , 2.5 Vpp, compare to 10 kHz sine, |
| Output impedance | 49.5 | 50 | 50.5 | Ω | 10 kHz sine |
| Output current | -200 | | 200 | mA | |
| Crosstalk (CH1 - CH2 / CH2 - CH1) | | | -60 | dBc | CH1= CH2= 0 dBm, Sine, 50 Ω load |

Note 1: The specification will be divided by 2 when applied to a 50 $\boldsymbol{\Omega}$ load.

| AMParameterMin.Typ.Max.UnitConditionCarrierSine, Square, Ramp, ArbModulation SourceInternal/ExternalModulating waveSine, Square, Ramp, Noise, ArbModulation depth0120%Modulation frequency1 m20 kHzWhile modulation source is "Internal"FMParameterMin.Typ.Max.UnitConditionCarrierSine, Square, Ramp, ArbModulation SourceInternal/ExternalModulating waveSine, Square, Ramp, Noise, Arb | |
|--|----------|
| Carrier Sine, Square, Ramp, Arb Modulation Source Internal/External Modulating wave Sine, Square, Ramp, Noise, Arb Modulation depth 0 120 % Modulation frequency 1 m 20 k Hz While modulation source is "Internal" FM Parameter Min. Typ. Max. Unit Condition Carrier Sine, Square, Ramp, Arb Modulation Source Internal/External | |
| Modulation Source Modulating wave Sine, Square, Ramp, Noise, Arb Modulation depth 0 120 % Modulation frequency 1 m 20 k Hz While modulation source is "Internal" FM Parameter Min. Typ. Max. Unit Condition Carrier Sine, Square, Ramp, Arb Modulation Source Internal/External | |
| Modulating wave Sine, Square, Ramp, Noise, Arb Modulation depth 0 120 Modulation frequency 1 m 20 k Hz While modulation source is "Internal" FM Parameter Min. Typ. Max. Unit Condition Carrier Sine, Square, Ramp, Arb Modulation Source Internal/External | |
| Modulation depth 0 120 % While modulation source is "Internal" FM Parameter Min. Typ. Max. Unit Condition Carrier Sine, Square, Ramp, Arb Modulation Source Internal Modulation Internal Mod | |
| Modulation frequency 1 m 20 k Hz While modulation source is "Internal" FM Parameter Min. Typ. Max. Unit Condition Carrier Sine, Square, Ramp, Arb Modulation Source Internal/External | |
| FM Parameter Min. Typ. Max. Unit Condition Carrier Sine, Square, Ramp, Arb Modulation Source Internal/External | |
| Parameter Min. Typ. Max. Unit Condition Carrier Sine, Square, Ramp, Arb Modulation Source Internal/External | |
| Carrier Sine, Square, Ramp, Arb Modulation Source Internal/External | |
| Modulation Source Internal/External | |
| · | |
| Modulating wave Sine, Square, Ramp, Noise, Arb | |
| | |
| Frequency deviation 0 0.5*BW BW is the max. output frequency lift frequency setting | mited by |
| Modulation frequency 1 m 20 k Hz While modulation source is "Internal" | |

| Modulation Characteristics | | | | | | | | | |
|----------------------------------|-------------------|--------------------------------|------|------|--|--|--|--|--|
| PM | | | | | | | | | |
| Parameter | Min. | Тур. | Max. | Unit | Condition | | | | |
| Carrier | Sine, Square, Rar | Sine, Square, Ramp, Arb | | | | | | | |
| Modulation Source | Internal/External | Internal/External | | | | | | | |
| Modulating wave | Sine, Square, Rar | np, Noise, Arb | | | | | | | |
| Phase deviation | 0 | | 360 | o | | | | | |
| Modulation frequency | 1 m | | 20 k | Hz | While modulation source is "Internal" | | | | |
| ASK | | | | | | | | | |
| Parameter | Min. | Тур. | Max. | Unit | Condition | | | | |
| Carrier | Sine, Square, Rar | np, Arb | | | | | | | |
| Modulation Source | Internal/External | Internal/External | | | | | | | |
| Modulating wave | Square with 50% | duty cycle | | | | | | | |
| Keying frequency | 1 m | | 50 k | Hz | Limited by frequency setting while modulation source is "Internal" | | | | |
| FSK | | | | | | | | | |
| Parameter | Min. | Тур. | Max. | Unit | Condition | | | | |
| Carrier | Sine, Square, Rar | mp, Arb | | | | | | | |
| Modulation Source | Internal/External | | | | | | | | |
| Modulating wave | Square with 50% | duty cycle | | | | | | | |
| Modulation frequency | 1 m | | 50 k | Hz | While modulation source is "Internal" | | | | |
| PWM | | | | | | | | | |
| Parameter | Min. | Тур. | Max. | Unit | Condition | | | | |
| Carrier | Pulse | | | | | | | | |
| Modulation Source | Internal/External | Internal/External | | | | | | | |
| Modulating wave | Sine, Square, Rar | Sine, Square, Ramp, Noise, Arb | | | | | | | |
| Modulation frequency | 1 m | | 1 M | Hz | While modulation source is "Internal" | | | | |
| Pulse width deviation resolution | 6.67 | | | ns | | | | | |

| Burst Characteristics | | | | | | | | |
|-----------------------|---|------|------|------|---------------------------------|--|--|--|
| Parameter | Min. | Тур. | Max. | Unit | Condition | | | |
| Carrier | Sine, Square, Ramp, Pulse, Noise, Arb | | | | | | | |
| Туре | Count(1-1000000cycles), Infinite, Gated | | | | | | | |
| Carrier frequency | 2 m | | BW | Hz | BW is the max. output frequency | | | |
| Start/Stop phase | 0 | | 360 | 0 | | | | |
| Internal period | 1 μ | | 1000 | S | | | | |
| Trigger source | Internal, External, Manual | | | | | | | |
| Gated source | Internal/External | | | | | | | |
| Trigger delay | | | 100 | S | | | | |

| Sweep Characteristics | | | | | | | | | |
|-----------------------|-------------------|--|--|--|--|--|--|--|--|
| Parameter | Min. | Min. Typ. Max. Unit Condition | | | | | | | |
| Carrier | Sine, Square, Ra | Sine, Square, Ramp, Arb | | | | | | | |
| Туре | Linear, Log | Linear, Log | | | | | | | |
| Direction | Up, Down | Up, Down | | | | | | | |
| Carrier frequency | 1 μ | $1~\mu$ $$ BW $$ Hz $$ BW is the max. output frequency | | | | | | | |
| Sweep time | 1 m | 1 m 500 s | | | | | | | |
| Trigger source | Internal, Externa | Internal, External, Manual | | | | | | | |

| Frequency Counter Characteristics | | | | | | | | | |
|-----------------------------------|------------------|--|--------|----|--------------------------------|--|--|--|--|
| Parameter | Min. | Typ. Max. Unit Condition | | | | | | | |
| Function | Frequency, Perio | Frequency, Period, Positive/Negative pulse width, Duty cycle | | | | | | | |
| Coupling mode | AC, DC, HF REJ | AC, DC, HF REJ | | | | | | | |
| Frequency range | 100m | | 200 M | Hz | DC coupling | | | | |
| | 10 | | 200 M | Hz | AC coupling | | | | |
| Input amplitude | 100 mVrms | | ±2.5 V | | DC coupling, < 100 MHz | | | | |
| | 200 mVrms | | ±2.5 V | | DC coupling, 100 MHz ~ 200 MHz | | | | |
| | 100 mVrms | | 5 Vpp | | AC coupling, < 100 MHz | | | | |
| | 200 mVrms | | 5 Vpp | | AC coupling, 100 MHz ~ 200 MHz | | | | |
| Input impedance | | 1 M | | Ω | | | | | |

| Reference Clock Input/Output | | | | | | | |
|------------------------------|------|------|------|------|--|--|--|
| Reference Clock Input | | | | | | | |
| Parameter | Min. | Тур. | Max. | Unit | Condition | | |
| Frequency | | 10 M | | Hz | | | |
| Amplitude | 1.4 | | | Vpp | | | |
| Input impedance | 5 | | | kΩ | AC coupling | | |
| Reference Clock Output | | | | | | | |
| Parameter | Min. | Тур. | Max. | Unit | Condition | | |
| Frequency | | 10 M | | Hz | Synchronized to internal reference clock | | |
| Amplitude | 2 | 3.3 | | Vpp | HiZ load | | |
| Output impedance | | 50 | | Ω | | | |

| Auxiliary In/Out C | haracteristics | | | | |
|--------------------|----------------|------|------|------|---------------------------------|
| Trigger Input | | | | | |
| Parameter | Min. | Тур. | Max. | Unit | Condition |
| V_{IH} | 2 | | 5.5 | V | |
| V_{iL} | -0.5 | | 0.8 | V | |
| Input impedance | 100 | | | kΩ | |
| Pulse width | 100 | | | ns | |
| Response time | | | 100 | ns | Sweep |
| Response time | | | 600 | ns | Burst |
| Trigger Output | | | | | |
| Parameter | Min. | Typ. | Max. | Unit | Condition |
| V _{OH} | 3.8 | | | V | $I_{OH} = -8 \text{ mA}$ |
| / _{OL} | | | 0.44 | V | $I_{OL} = 8 \text{ mA}$ |
| Output impedance | | 100 | | Ω | |
| requency | | | 1 | MHz | |
| Sync Output | | | | | |
| Parameter | Min. | Тур. | Max. | Unit | Condition |
| V _{OH} | 3.8 | | | V | $I_{\text{OH}} = -8 \text{ mA}$ |
| V _{OL} | | | 0.44 | V | $I_{OL} = 8 \text{ mA}$ |
| Output impedance | | 100 | | Ω | |
| Pulse width | | 500 | | ns | |
| Frequency | | | 1 | MHz | |

| Auxiliary In/Out Characteristics | | | | | | | |
|----------------------------------|------|------|------|------|-----------|--|--|
| Modulation Input | | | | | | | |
| Parameter | Min. | Тур. | Max. | Unit | Condition | | |
| Frequency | 0 | | 50 | kHz | | | |
| Input impedance 10 k Ω | | | | | | | |
| Amplitude@ 100% Modulation depth | 11 | 12 | 13 | Vpp | | | |

| General Characteristics | | | | | | | |
|--|--|--|---|--|--|--|--|
| Power | | | | | | | |
| Min. | Тур. | Max. | Unit | Condition | | | |
| 100 - 240 Vrms (± 10%), 50 / 60 Hz 100 - 120 Vrms (± 10%), 400 Hz | | | | | | | |
| | 21 | 50 | W | Dual channels, Sine, 1kHz, 10Vpp, 50Ω load | | | |
| | | | | | | | |
| Min. | Тур. | Max. | Unit | Condition | | | |
| | 24 | | bit | | | | |
| | 350:1 | | | | | | |
| | 300 | | cd/m ² | | | | |
| | | | | | | | |
| Min. | Тур. | Max. | Unit | Condition | | | |
| 0 | | 40 | \mathbb{C} | | | | |
| -20 | | 60 | ${\mathbb C}$ | | | | |
| 5 | | 90 | % | ≤ 30 ℃ | | | |
| 5 | | 50 | % | 40 ℃ | | | |
| 5 | | 95 | % | | | | |
| | | 3048 | m | ≤ 30 ℃ | | | |
| | | 15000 | m | | | | |
| | | | | | | | |
| Min. | Тур. | Max. | Unit | Condition | | | |
| | 1 | | year | | | | |
| | | | | | | | |
| Min. | Тур. | Max. | Unit | Condition | | | |
| W×H×D = 260.3 mm×107.2 mm×295.7 mm | | | | | | | |
| | 3.43 | | kg | | | | |
| | 4.35 | | kg | | | | |
| | | | | | | | |
| IEC 61010-1:2010 |) | | | | | | |
| EN61326-1:2013 | | | | | | | |
| | Min. 100 - 240 Vrms (: 100 - 120 Vrms (: 100 - 120 Vrms (: Min. Min. 0 -20 5 5 5 Min. Min. Min. Min. Min. IEC 61010-1:2010 | Min. Typ. 100 - 240 Vrms (± 10%), 50 / 60 Hz 100 - 120 Vrms (± 10%), 400 Hz 21 Min. Typ. 24 350:1 300 Min. Typ. 0 -20 5 5 5 Min. Typ. 1 Min. Typ. 1 Min. Typ. 1 Itc. 61010-1:2010 | Min. Typ. Max. 100 - 240 Vrms (± 10%), 50 / 60 Hz 100 - 120 Vrms (± 10%), 400 Hz 21 50 Min. Typ. Max. 24 350:1 300 Min. Typ. Max. 0 40 -20 60 5 90 5 50 5 95 5 95 3048 15000 Min. Typ. Max. 1 Min. Typ. Max. 1 | Min. Typ. Max. Unit 100 - 240 Vrms (± 10%), 50 / 60 Hz 100 - 120 Vrms (± 10%), 400 Hz V 21 50 W Min. Typ. Max. Unit 24 bit 350:1 cd/m² Min. Typ. Max. Unit 0 40 ℃ -20 60 ℃ 5 90 % 5 95 % 5 95 % 3048 m 15000 m Min. Typ. Max. Unit W×H×D = 260.3 mm×107.2 mm×295.7 mm kg 3.43 kg 4.35 kg | | | |

Ordering Information

| Product Description | |
|---------------------------------|----------|
| 60 MHz, 2 CH, 150 MSa/s, 14 bit | SDG1062X |
| 30 MHz, 2 CH, 150 MSa/s, 14 bit | SDG1032X |
| Standard Configurations | |
| Quick Start -1 | |
| Power Cord-1 | |
| Calibration Certificate -1 | |
| USB Cable -1 | |
| Optional Configurations | |
| BNC Coaxial Cable | SDG-BNC |
| 20 dB Attenuator | ATT-20dB |
| 10W Power Amplifier | SPA1010 |

SDG1000X Series Function/Arbitrary Waveform Generator

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About SIGLENT

SIGLENT is an international high-tech company, concentrating on R&D, sales, production and services of electronic test & measurement instruments.

SIGLENT first began developing digital oscilloscopes independently in 2002. After more than a decade of continuous development, SIGLENT has extended its product line to include digital oscilloscopes, function/arbitrary waveform generators, digital multimeters, DC power supplies, spectrum analyzers, isolated handheld oscilloscopes and other general purpose test instrumentation. Since its first oscilloscope, the ADS7000 series, was launched in 2005, SIGLENT has become the fastest growing manufacturer of digital oscilloscopes. We firmly believe that today SIGLENT is the best value in electronic test & measurement.

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