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SDG1000 Series Function/Arbitrary Waveform Generators



Product Overview

The SDG1000 series of high-performance function/arbitrary waveform generators use direct digital synthesis (DDS) technology and can generate accurate, stable, clean and low distortion output signals. It provides fast rising and falling edge square waves up to 25MHz. The SDG1000 series provides a user-friendly graphical interface that can help you complete tasks faster and greatly improve your work efficiency. It has dual-channel output and each channel can output waveforms up to 50MHz (Sine Wave).

Key Features

- ◆ Uses DDS technology, dual outputs, adjustable phase, the highest output frequency is 50MHz (SDG1050)
- ◆ 125 MSa/s sample rate, 14 bit vertical resolution, 16 Kpts memory
- ◆ Outputs 5 types of standard waveforms, 48 internally stored waveforms
- ◆ Includes built-in high precision, 200 MHz frequency counter
- ◆ Multiple modulation functions, sweep-frequency function, pulse train function
- ◆ Standard PC connections: USB Device, USB Host, support U Disk storage and software, optional GPIB port
- ◆ Can seamlessly connect to the SDS1000 series digital oscilloscopes and supports remote command control

Characteristics

46 types of built-in arbitrary waveforms

Square CH2		Arb CH1		Arb	
ExpFall	ExpRise	LogFall	LogRise	Common	
Sqrt	Root3	X^2	X^3		
Sinc	Gaussian	Dlorentz	Haversine		Math
Lorentz	Gauspuls	monopuls	Tripuls		
CH1 Waveform		Load: 50Ω		Project Winfun Triangle Select	
Frequency	2.000 000kHz				
Amp1	2.0mVpp		Phase 0.0°		
Offset	4.999Vdc				

Powerful modulation types (AM, DSB-AM, FM, PM, ASK, FSK, PWM)

Square CH2		Arb CH1		Mod
Type		100.000Hz		DSB Freq
Type DSB-AM		Shape Sine		Type
Shape Sine		Source Internal		DSB-AM
DSB-AM Mod		Load: 50Ω		Shape
DSBAM Freq		100.000Hz		Sine
Freq	2.000kHz		Amp1 2.0mVpp	Source
				Internal

Burst

Sine CH2		Sine CH1		Burst
Pulse Period		10.000ms		Period
0.0°		Type N Cycle		StartPhase
Source Internal		5Cyc		
Sine Burst		Load: Hi-Z		Ncycle
Pulse Period		10.000ms		Gated
Freq		1.000kHz		Source
		Amp1 4.000Vpp		Internal
				1/2

Sweep

Sine CH2		Sine CH1		Sweep
Sweep Time		1.000s		SwpTime
1.950kHz		50.000Hz		StopFreq
Source Internal				FreqSpan
Sine Sweep		Load: Hi-Z		StartFreq
Sweep Time		1.000s		MidFreq
Freq		1.000kHz		Source
		Amp1 4.000Vpp		Internal
				1/2

Ordering Information

Product Model

SDG1050, 50 MHz, 2 channel

SDG1025, 25 MHz, 2 channel

SDG1020, 20 MHz, 2 channel

SDG1010, 10 MHz, 2 channel

SDG1005, 5 MHz, 2 channel

Optional Accessories

USB-GPIB adapter

BNC Cable

Standard Accessories

Warranty Card






A USB cable

A QuickStart Guide

A product qualification certificate

CD (contains EasyScope PC software)

A power cord designed for the instrument and authorized by local country

Model	Max output frequency	Max sampling rate	Vertical resolution	Wave length	Channels
 SDG1050	50MHz	125M Sa/s	14bit	16Kpts	2CH
 SDG1025	25MHz	125M Sa/s	14bit	16Kpts	2CH
 SDG1020	20MHz	125M Sa/s	14bit	16Kpts	2CH
 SDG1010	10MHz	125M Sa/s	14bit	16Kpts	2CH
 SDG1005	5MHz	125M Sa/s	14bit	16Kpts	2CH

Verkauf und technische Betreuung

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