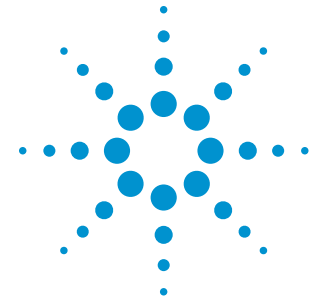


Agilent 33521A, 33522A, 30-MHz Function/Arbitrary Waveform Generators



Revolutionary signal generation delivers the highest signal fidelity in its class, full-bandwidth pulses and real point-by-point arbitrary waveforms

Agilent 33500 Series of function/arbitrary waveform generators are the first in their class with 30 MHz sine, square, and pulse waveforms and 250 MSa/s, 16-bit sampling with true point-by-point arbitrary waveforms. The 33500 Series comes in 1- and 2-channel configurations with a large color display and embedded waveform builder. The 2-channel model has a flexible dual-channel mode with frequency and amplitude coupling, differential channels and combined output channels. Optional BenchLink Waveform Builder Pro software offers advanced PC-based waveform creation, manipulation and downloading for more complex waveforms.



Key features

- 30 MHz sine, square, pulse bandwidth
- 250 MSa/s, 16-bit sampling rate for high time resolution arbitrary waveforms
- True point-by-point arbitrary waveforms for more accurate representation of user defined waveforms
- 0.04% THD and <40 ps jitter for greater signal fidelity
- USB and LAN (LXI-C) standard for easy utilization and connecting
- A TCXO timebase standard, OCXO optional for ultra-high stability
- Optional BenchLink Waveform Builder Pro software simplifies the creation of complex waveforms.



Quick Fact Sheet

Agilent 33521A, 33522A, 30-MHz Function/Arbitrary Waveform Generators

Product specifications

Product Specifications and Price	33521 1-Channel	33522A 2-Channel
Frequency range (sine and square)	1 μ Hz to 30 MHz	1 μ Hz to 30 MHz
Arb resolution and sample rate	16-bit, 250 MSa/s, 1MSa/channel memory	16-bit, 250 MSa/s, 1MSa/channel memory
Jitter and THD	< 40 PS, jitter, 0.04% THD	< 40 PS, jitter, 0.04% THD
Ramp symmetry	< 0.05% from 5% to 95% of the signal amplitude	< 0.05% from 5% to 95% of the signal amplitude
Sum modulation	Add any 2 signals, independent frequency & amplitude	Add any 2 signals, independent frequency & amplitude
Square wave duty cycle	0.01% to 99.99%	0.01% to 99.99%
Pulse frequency range	8.4 ns to 1 μ s, independently variable, 100-ps or 3-digit resolution	8.4 ns to 1 μ s, independently variable, 100-ps or 3-digit resolution
Modulation carrier waveforms	AM, FM, PM, FSK, BPSK, PWM, Sum (carrier + modulation)	AM, FM, PM, FSK, BPSK, PWM, Sum (carrier + modulation)
Modulation capability	Continuous, modulate, frequency sweep, burst, output gate	Continuous, modulate, frequency sweep, burst, output gate
Amplitude range	1 mVpp to 10 Vpp into 50 Ω	1 mVpp to 10 Vpp into 50 Ω
Amplitude accuracy	$\pm 1\%$ of Offset setting $\pm 0.25\%$ of Amplitude setting ± 2 mV	$\pm 1\%$ of Offset setting $\pm 0.25\%$ of Amplitude setting ± 2 mV
Frequency accuracy	± 1 ppm of setting ± 15 pHz	± 1 ppm of setting ± 15 pHz
2-channel coupling		Frequency & amplitude coupling, equal or inverted channels
Interface	LAN, USB, optional GPIB	LAN, USB, optional GPIB

Options and Accessories

Options	Description
Option 002	Increases arbitrary waveform memory to 16 MSa/channel
Option 010	High-stability frequency reference
Option 400	GPIB interface
33503A BenchLink Waveform Builder Pro Software	

For more details on the Agilent 33521A and 33522A Function/arbitrary waveform generators, see the *DataSheet*, literature number 5990-5914EN

For more information on Agilent function/arbitrary waveform generators, please visit: www.agilent.com/find/functiongenerators

To find a distributor in your area, go to: www.agilent.com/find/distributors

Recommended service options

Additional two years of Return-to-Agilent warranty
Additional two years of Return-to-Agilent calibrations

For more information go to www.agilent.com/find/removealldoubt

Technical data, availability and pricing subject to change without notice.

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5990-5959EN



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