

KEYSIGHT TECHNOLOGIES (AGILENT HP)

33220A

The Keysight (Agilent) 33220A is a single-channel 20 MHz function/arbitrary waveform generator for benchtop test and measurement. It provides standard functions, pulse generation with variable edge, and 14-bit arbitrary waveforms at up to 50 MSa/s with 64 Kpoints of memory.

SPECIFICATIONS

General

Interfaces	USB, GPIB, LAN
Display	Graphical LCD with graph mode

Physical

Power Supply	100–240 VAC, 50/60 Hz (autoranging)
Operating Temperature	0 °C to 55 °C °C

General Signal Generation

Channels	1
Standard waveforms	Sine, square, ramp, pulse, noise, DC
Pulse waveform	Pulse generation with variable edge
Arbitrary waveform capability	Yes (user-defined arb)
Output impedance	50 Ω nominal
Amplitude range (High Z)	20 mVpp to 20 Vpp
Amplitude range (50 Ω)	10 mVpp to 10 Vpp
DC offset range (High Z)	± 10 V
DC offset range (50 Ω)	± 5 V
Sine and square capability	20 MHz sine and square waveforms
Ramp/triangle capability	Ramp and triangle waveforms
Noise waveform (built-in)	Noise waveform available
DC waveform	DC output waveform available

Sine Wave Performance

Max sine frequency	20 MHz
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Square and Pulse Performance

Max square frequency	20 MHz
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Arbitrary Waveform

Sample rate (arb)	50 MSa/s
Vertical resolution (arb)	14-bit
Memory depth (arb)	64 Kpoints

Modulation, Sweep, and Burst

Modulation types	AM, FM, PM, FSK, PWM
Sweep types	Linear, logarithmic
Burst	Burst operation supported

I/O and Interfaces

Main output connector	BNC
Remote interfaces (included)	USB, GPIB, LAN

User Interface and Storage

Display capability	Graph mode for visual verification of signal settings
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Software and Drivers

Remote programming	SCPI command set
Instrument control software	IntuiLink software included
Waveform editor compatibility	IntuiLink Waveform Editor add-in

Power and Physical

Power input	100–240 VAC, 50/60 Hz
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