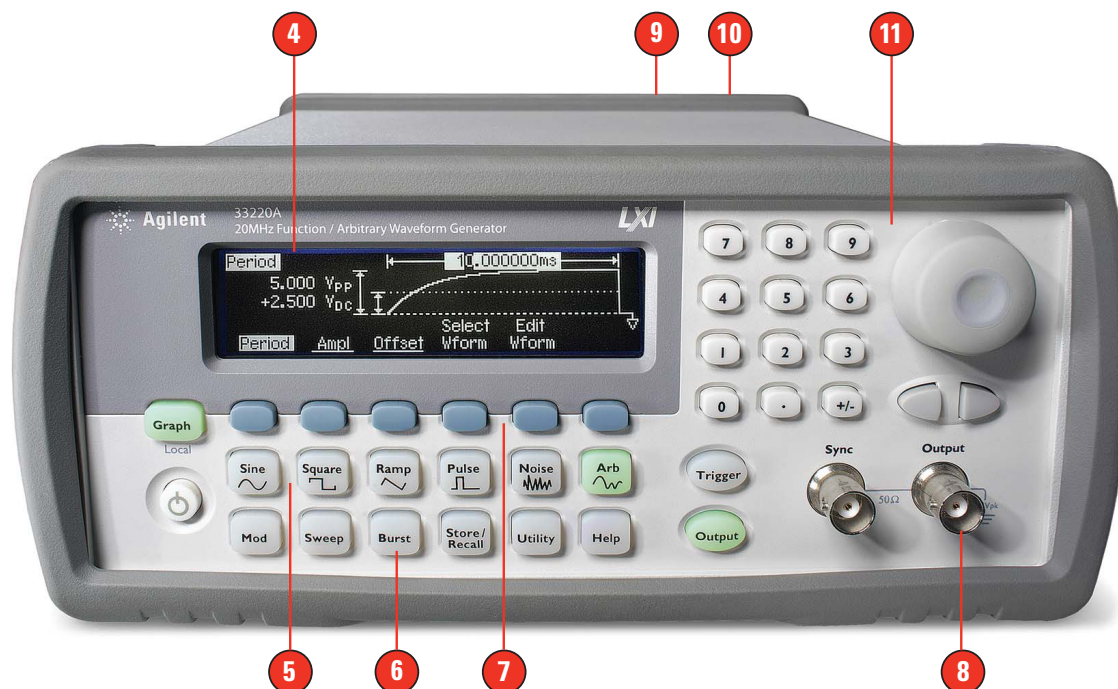


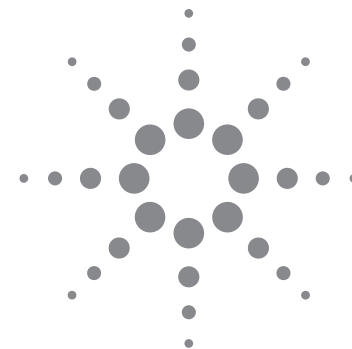
Quick Fact Sheet

Agilent 33210A/20A/50A Function/Arbitrary Waveform Generators



Key Features

- Standard waveforms included: sine, square, pulse, noise, ramp, DC, triangle
 - Arbitrary waveforms with up to 64 K-points of memory. 33210A has an optional 8K point arbitrary waveform generator.
 - Standard modulations AM and FM on all instruments, FSK, PWM and PM on select models
 - Linear/log sweep and burst
 - Free IntuiLink Arbitrary Waveform Software
1. 33210A Function / Arbitrary Waveform Generator, 10 MHz
 2. 33220A Function / Arbitrary Waveform Generator, 20 MHz
 3. 33250A Function / Arbitrary Waveform Generator, 80 MHz
 4. Graphic display for viewing and editing waveforms
 5. One touch buttons for the standard waveforms
 6. One touch buttons for modulation
 7. Soft keys for setting parameters
 8. Programmable output for matching load impedance
 9. External reference time base input (33210A/20A Option 001)
 10. Computer interfaces: GPIB, 33210A/20A provides USB and LAN (LXI)
 11. SCPI programming language, PC SW and drivers included



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Quick Fact Sheet

Agilent 33210A/20A/50A Function/Arbitrary Waveform Generators

	33210A	33220A	33250A
Frequency range (sine and square)	1 mHz to 10 MHz	1 μ Hz to 20 MHz	1 μ Hz to 80 MHz
Arb resolution and sample rate	14-bit, 50 MSa/s (option 002)	14-bit, 50 MSa/s	12-bit, 200 MSa/s
Harmonic distortion	-70 dBc (DC – 20 kHz)		-60 dBc (DC – 1 MHz)
Linear ramp rate	Up to 100 kHz	Up to 200 KHz	Up to 1 MHz
Phase noise	-115 dBc / Hz		< -65 dBc (10 MHz)
Square wave duty cycle	20% to 80%		
Pulse frequency range	1 mHz to 5 MHz	500 μ Hz to 5 MHz	500 μ Hz to 50 MHz
Modulation carrier waveforms	Sine, square	Sine, square, ramp, and arb	
Modulation capability	AM, FM, PWM, Burst	AM, FM, PM, FSK, Burst, PWM	AM, FM, FSK, Burst
Amplitude range	10 mVpp to 10 Vpp into 50 ohm load		
Amplitude accuracy	$\pm 2\%$, ± 1 mVpp	$\pm 1\%$, ± 1 mVpp	
Frequency accuracy	20 ppm + 3 pHz		2 ppm
External timebase reference	Option 001		Standard
Interface	GPIO, LAN, USB		GPIO, RS-232

Options and Accessories

33210A Opt 001	External Timebase Reference
33210A Opt 002	8K point Arbitrary Waveform Generator
33220A Opt 001	External Timebase Reference
34131A	Carrying Case
34161A	Accessory Pouch
34190A	Rack mount kit (1/2 width)
10833A/B/C/D/F/G	GPIO cable
82350B	PCI high-performance GPIO card
82351A	PCIe-GPIO interface card
82357B	USB/GPIO interface (33250A only)
E5813A	Networked 5-port USB hub (33250A only)
E5810A	GPIO to LAN Gateway (33250A only)



Uncompromising Performance
Standard Waveforms
Arbitrary Waveforms
Pulse Waveforms
Graphical Display

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

Pricing and technical data subject to change without notice.

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