FG33531A / FG33532A 100 MHz Function Generators

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The Keysight FG33530 Series function/arbitrary waveform generators provide up to 100 MHz with essential features like modulation, sweep, and burst capabilities. The intuitive front-panel interface ensures seamless navigation, allowing you to adjust and review settings effortlessly for maximum efficiency. Trueform technology replicates every waveform point, offering up to 16 Mega Samples (MSa) record length per channel.

Figure 1. Keysight FG33531A / FG33532A 100 MHz function generators

Model and options	FG33531A	FG33532A
Maximum frequency	100 MHz	100 MHz
Number of channels	1	2
Standard	Sine, square, ramp, pulse, triangle, Gaussian noise, pseudorandom binary sequence (PRBS), DC	
Built-in arbitrary	Cardiac, exponential fall, exponential rise, Gaussian pulse, Haversine, Lorentz, D-Lorentz, negative ramp, sinc	
User-defined arbitrary	Up to 8 MSa (16 MSa with Option MEM)	
Operating modes and modulation types		
Operating modes	Modulation types	
Modulation types	Amplitude Modulation (AM), Frequency Modulation (FM), Phase Modulation (PM), Frequency Shift Keying (FSK), Binary Phase Shift Keying (BPSK), Pulse Width Modulation (PWM), sum (carrier + modulation)	

Option	Description
FG33531A	Waveform generator, 100 MHz, 1-channel
FG33532A	Waveform generator, 100 MHz, 2-channel
MEM33531U	Memory upgrade to 16 MSa for 1-channel FG33531A waveform generators
MEM33532U	Memory upgrade to 16 MSa for 2-channel FG33532A waveform generators
33503B	Keysight BenchLink Waveform Builder Pro software

Key features and benefits

- 7-inch color display for parameter setup, signal viewing, and editing
- Jitter of less than 50 ps
- Total harmonic distortion of less than 0.06%
- Six built-in modulation types and 17 popular waveforms to simulate typical applications for testing
- 16-bit arbitrary waveform capability with memory of up to 16 MSa per channel

More Information: www.keysight.com/find/fg33530a
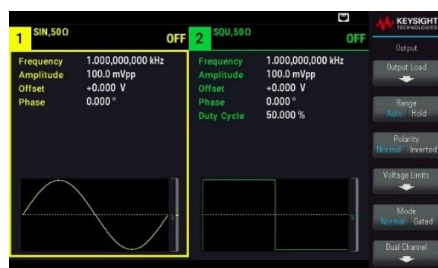
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1. Display
2. Function keys
3. Soft keys
4. Numeric keys
5. Knob and cursor arrows
6. Output connectors, setup and On/Off buttons
7. Sync/trigger output connector
8. External Trig/Gate/FSK/Burst connector
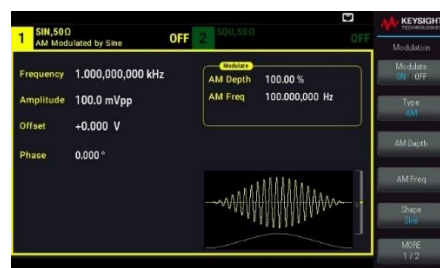9. CAL connector
10. USB host
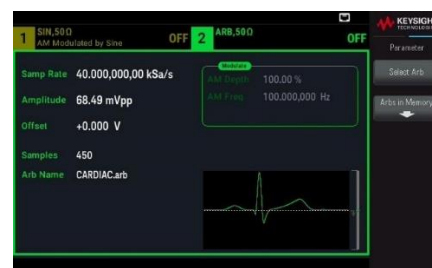11. Power switch

Modulation and built-in waveforms

The FG33530 Series comes with all the fundamental waveforms plus 17 built-in arbitrary waveforms
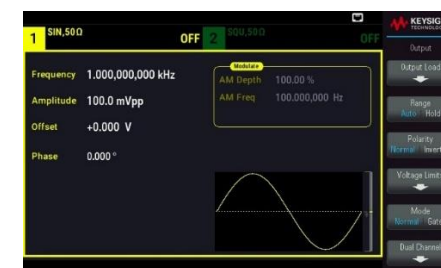

Dual-screen display of standard sine and square wave

AM modulated with a standard sine wave

Cardiac specialty waveform

Standard sine wave and parameter settings

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