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. Color display for fast, simple setup and monitoring
2. Front USB host port (E36312 and E36313A only)
3. Channel selection and voltage/current knobs
4. Properly layout function keys and keypads
5. Three DC power outputs with individual on/off button
6. Output channels and controls are color-coded to display
7. Security lock slot
8. Rear output terminals (E36312 and E36313A only)
9. Digital I/O (E36312 and E36313A only)
10. LXI LAN and GPIB ports (E36312 and E36313A only)
11. USB communication port

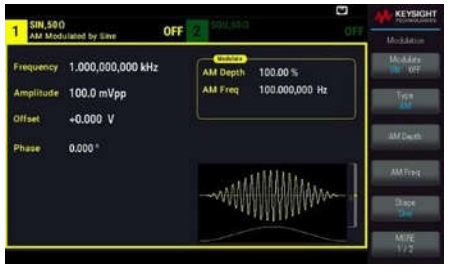


Modulation and built-in waveforms

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

Keysight enables innovators to push the boundaries of engineering by quickly solving design, emulation, and test challenges to create the best product experiences. Start your innovation journey at www.keysight.com.

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