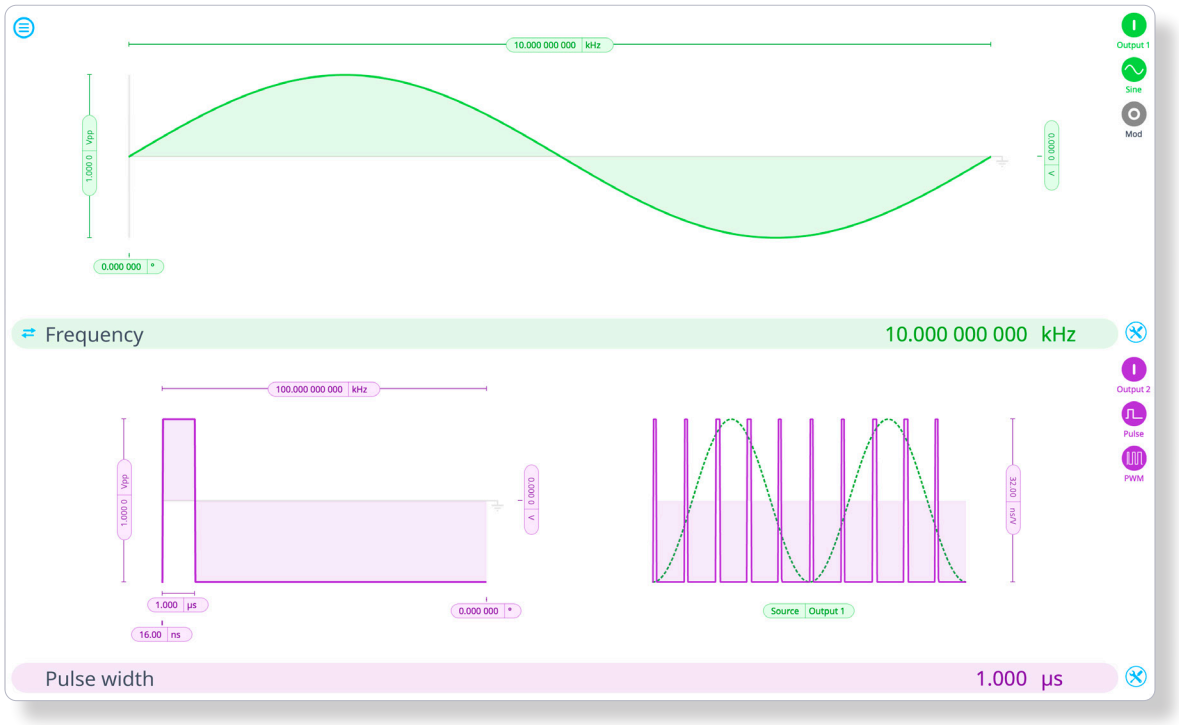
Moku:Go Instrument Datasheet

Waveform Generator



The Moku:Go Waveform Generator enables you to generate two independent waveforms with a sampling rate of 125 MSa/s, and a maximum frequency of 20 MHz with an output voltage range up to 10 Vpp. Select between sine, square, ramp, pulsed, noise, or DC waveform shapes. Perform high bandwidth modulation of phase, frequency, amplitude, and pulse width; and generate triggered bursts or sweeps from an internal or external source.



Frequency Range	Sampling Rate	Resolution	Output Voltage Range	Modulation	Other Modes
DC to 20 MHz	**125 MSa/s**	**12 bit**	**10 Vpp**	**FM, AM, PM, PWM**	**Burst, Sweep**

Features

- Generate 2 independent waveforms from DC to 20 MHz.
- 6 built-in waveforms: sine, square, ramp, pulse, noise, and DC.
- FM, AM, PM, and PWM modulation with internal waveform (cross-channel modulation) or external input.
- Versatile trigger options: from input, or the other output channel.

Specifications

- Output bandwidth: up to 20 MHz (-3dB)
- Frequency range:
  - Sine: 1 mHz to 20 MHz
  - Square: 1 mHz to 5 MHz
  - Ramp: 1 mHz to 5 MHz
  - Pulse 1 mHz to 5 MHz
- Pulse width: 16 ns to period
- Modulation bandwidth: > 5 MHz
- Burst mode: start, N-cycle, gated
- Sweep time: 1 ms to 1 ks

Applications

- Signal simulation
- Circuit design and characterization
- System synchronization
- Clock source
- Op-amp characterization
- Motor drive

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