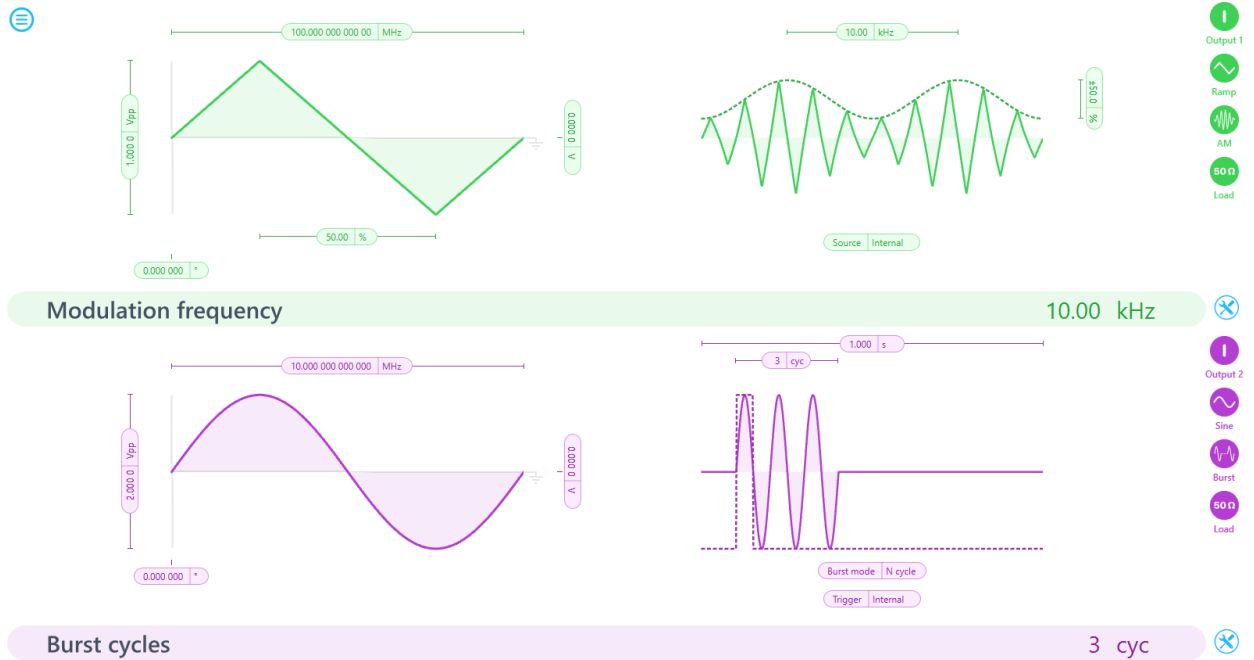




The Moku:Lab Waveform Generator enables you to generate two independent waveforms with a sampling rate of 1 GSa/s, a maximum frequency of 250 MHz and an output voltage range of 2 Vpp into 50 Ω. Select between sine, square, ramp, pulsed, noise, or DC waveform shapes. Modulate the phase, frequency, amplitude, pulse width; or generate triggered bursts or sweeps from an internal or external source.



Frequency Range DC to 250 MHz	Sampling Rate 500 MSa/s	Resolution 16 bit	Output Voltage Range 2 Vpp into 50 Ω	Modulation FM, AM, PM, PWM	Other Modes Burst, Sweep
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Features

- Generate 2 independent waveforms from DC to 250 MHz
- 6 built-in waveforms: sine, square, ramp, pulse, noise and DC
- Broadband FM, AM, and PM, and PWM modulation with internal waveform (cross-channel modulation) or external input
- Versatile trigger options: from input, dedicated TTL trigger port, or the other output channel
- 10 MHz reference input and output

Specifications

- Output bandwidth: 300 MHz
- Frequency range:
 - Sine: 1 mHz to 250 MHz
 - Square: 1 mHz to 100 MHz
 - Ramp: 1 mHz to 100 MHz
 - Pulse 1 mHz to 100 MHz
- Pulse width: 4 ns to period
- Modulation bandwidth: 62.5 MHz
- Burst mode: start, N-cycle, gated
- Sweep time: 1 ms to 1 ks
- SFDR: >50 dBc below 20 MHz
- THD: 0.5% (1.5 MHz, 5 harmonics)

Applications

- Signal simulation
- Laser scanning microscopy
- Circuit design and characterization
- System synchronization
- Clock source
- DAC/Op-amp characterization
- Motor control