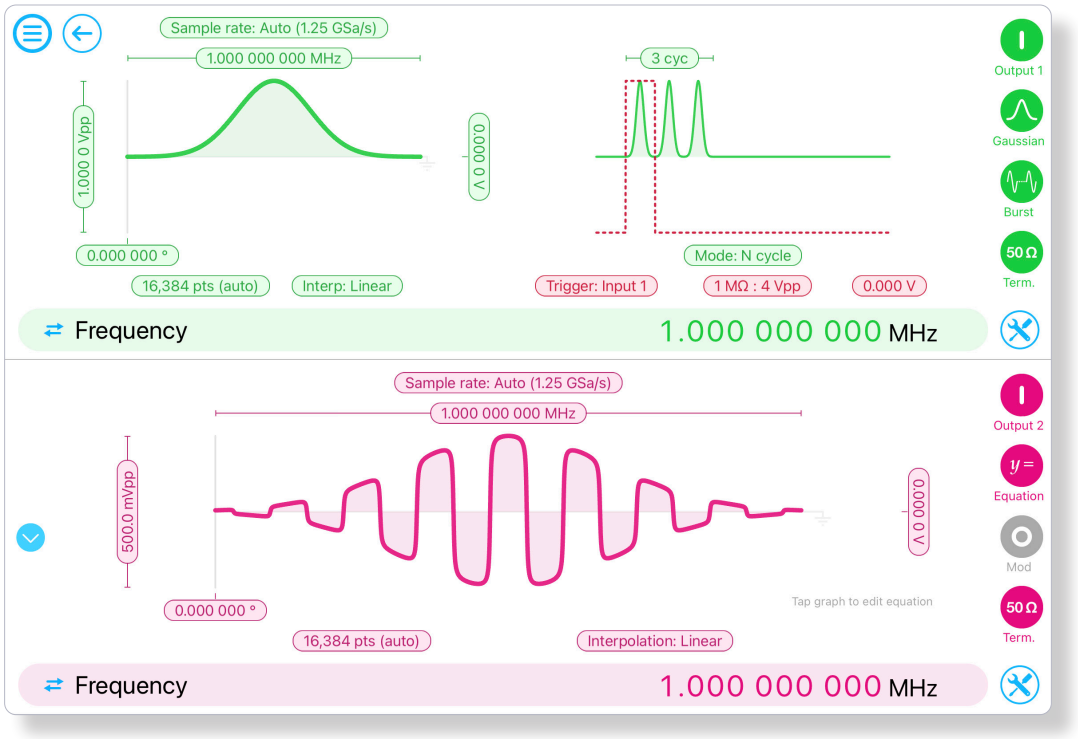
Moku:Pro Instrument Datasheet

Arbitrary Waveform Generator



The Moku:Pro four-channel Arbitrary Waveform Generator can generate four custom waveforms with up to 65,536 points and sample rates ranging from 312.5 MSa/s to 1.25 GSa/s. Load waveforms from a file or input as a piece-wise mathematical function with up to 32 segments, enabling you to generate truly arbitrary waveforms. In burst mode, waveform generation can be triggered from input channels with start or n cycle modes. In pulsed mode, waveforms can be output with more than 250,000 cycles of dead time between pulses.



Maximum Sample Rate	Output Bandwidth	DAC Resolution	Independent Triggering	Supported Waveforms
1.25 GSa/s	**Up to 500 MHz**	**16-bits**	**Burst/Pulsed**	**5 predefined, segmented equations (up to 32) or custom**

Features

- Four independent AWG channels with up to 500 MHz bandwidth
- Choose between preset waveforms, load points from a file, or input an equation directly
- Phase synchronization output between the four channels
- Configure pulsed output with up to 250,000 cycles of dead time between pulses

Specifications

- Supported waveforms: Sine, Gaussian, Exponential fall, Exponential rise, Sinc, equation editor, and custom (from file)
- Output bandwidth:
  10 Vpp @ 312.5 MSa/s
  2 Vpp @ 625 MSa/s and 1.25 GSa/s
- DC offset: ± 5 V with 100 µV resolution
- Phase offset: 0° to 360° with 0.001° resolution
- Maximum output rate:
  312.5 MSa/s with 65,536 points
  625 MSa/s with 32,768 points
  1.25 GSa/s with 16,384 points

Applications

- Random pattern scanning
- System response simulation
- Additive manufacturing
- Quantum optics
- Quantum computing

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