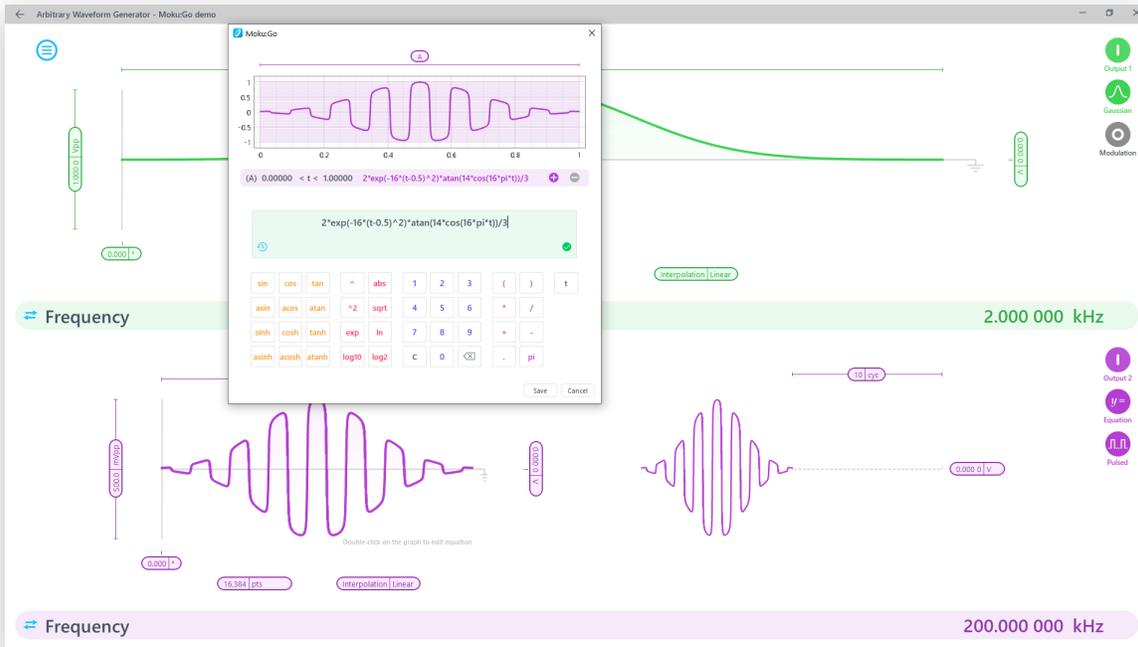




125 MSa/s Arbitrary Waveform Generator



Moku:Go's Arbitrary Waveform Generator can generate custom waveforms with up to 65,536 points at sample rates of up to 125 MSa/s. Waveforms can be loaded 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 125 MSa/s	Output Bandwidth 20 MHz	DAC Resolution 12-bits	Independent Triggering Burst/Pulsed	Supported Waveforms 6 predefined, segmented equations (up to 32), or custom
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Features

- Two independent AWG channels with 20 MHz output bandwidth.
- Choose between one of the preset waveforms, load points from a file, or input an equation directly.
- Phase synchronization output between the two channels.
- Triggered start or n-cycle mode with burst output.
- Configure pulsed output with up to 250,000 cycles of dead time between pulses.

Specifications

- Supported waveforms: Sine, Gaussian, Exponential fall, Exponential rise, Sinc, Cardiac, Equation editor, and Custom (from file)
- Output bandwidth: 20 MHz
- DC offset: ± 5 V with 3 mV resolution
- Phase offset: 0° to 360° with 0.001° resolution
- Maximum output rate:
 - 15.625 MSa/s with 65,536 points
 - 31.25 MSa/s with 32,768 points
 - 62.5 MSa/s with 16,384 points
 - 125 MSa/s with 8,192 points

Applications

- Random pattern generation
- System response simulation
- Additive manufacturing
- Instrument response function simulation