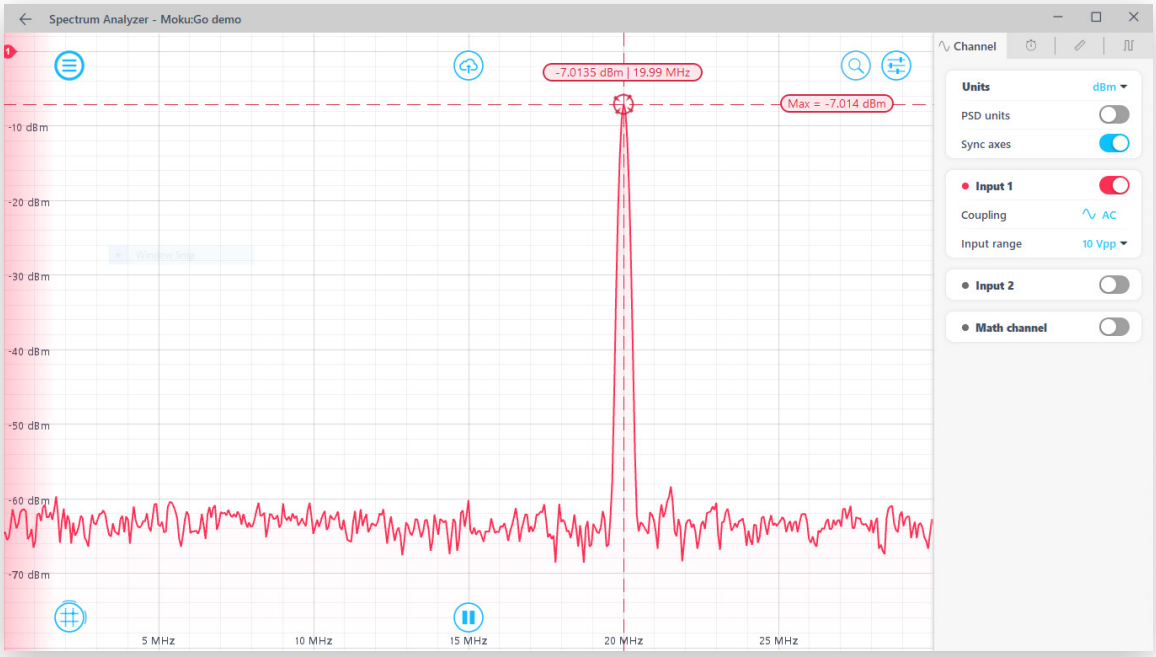
Moku:Go Instrument Datasheet

30 MHz Real-Time Spectrum Analyzer

Moku:Go's Spectrum Analyzer allows you to observe input signals in the frequency domain between DC and 30 MHz. The frequency down-conversion / FFT hybrid approach provides significant improvement in dynamic range and spectral resolution compared to an FFT-based spectral analysis. View two channels of data simultaneously with a resolution bandwidth as low as 470 mHz over a minimum span of 100 Hz. The Spectrum Analyzer also features two integrated waveform generators capable of producing sine waves at up to 20 MHz.



Frequency Range	Frequency Span	Minimum RBW	Video Filter Bandwidth	Signal Generator	Output Frequency
DC to 30 MHz	**100 Hz to 30 MHz**	**470 mHz**	**20 Hz to 610 kHz**	**Integrated**	**up to 20 MHz**

Features

- High bandwidth input and output options: display and record power spectra or power spectral densities in the frequency domain from DC to 30 MHz.
- Generate two sine waves up to 20 MHz using Moku:Go's built-in analog outputs.
- Quickly measure key metrics by dragging measurement cursors onto features of interest using the graphical interface.

Specifications

- Frequency range: DC to 30 MHz
- Frequency span: 100 Hz to 30 MHz
- Resolution bandwidth (RBW): span dependent, minimum RBW is 470 mHz
- Number of inputs: 2
- Input range: 10 Vpp
- Input impedance: 1 MΩ
- Number of outputs: 2
- Output frequency range: 1 mHz to 20 MHz
- Output voltage: 10 Vpp

Applications

- Frequency domain analysis
- System response characterization
- Noise measurement
- Spurious signal identification