Moku:Pro Instrument Datasheet

Spectrum Analyzer



The Moku:Pro Spectrum Analyzer provides real-time frequency-domain analysis from DC to 600 MHz with an exceptionally low noise floor. You can view and record up to four input channels at once with resolution bandwidths down to 618.5 mHz, and perform real-time cross correlation between any two channels for deeper insight into system behavior. The instrument also includes four independent sine wave generators up to 500 MHz, enabling fast characterization, measurement, and verification of RF and mixed-signal systems.



Frequency Range	Frequency Span	Minimum RBW	Input Noise	Signal Generator	Output Frequency
DC to 600 MHz	100 Hz to 600 MHz	618.5 mHz	30 nV√Hz @ 100 Hz	4 channels	Up to 500 MHz

Features

- Display and record power spectra or power spectral densities in the frequency domain from DC to 600 MHz
- Generate four sine waves up to 500 MHz using the Moku:Pro built-in analog outputs
- Quickly measure key metrics by dragging measurement cursors onto features of interest using the multi-touch interface
- Live measurement functions: peak level, peak frequency, noise level, peak SNR, and occupied bandwidth

Specifications

- Selectable input bandwidth:
  - DC to 300 MHz
  - DC to 600 MHz
- Frequency span: 100 Hz to 600 MHz
- Resolution bandwidth (RBW): span dependent, minimum RBW is 618.5 mHz
- Number of input channels: 4
- Input range: 400 mVpp, 4 Vpp, or 40 Vpp
- Input impedance: 50 Ω / 1 MΩ
- Number of output channels: 4
- Output range: up to 500 MHz (2 Vpp)
  up to 100 MHz (10 Vpp)
- Video filter bandwidth: 580 mHz to 6.1 MHz

Applications

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

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