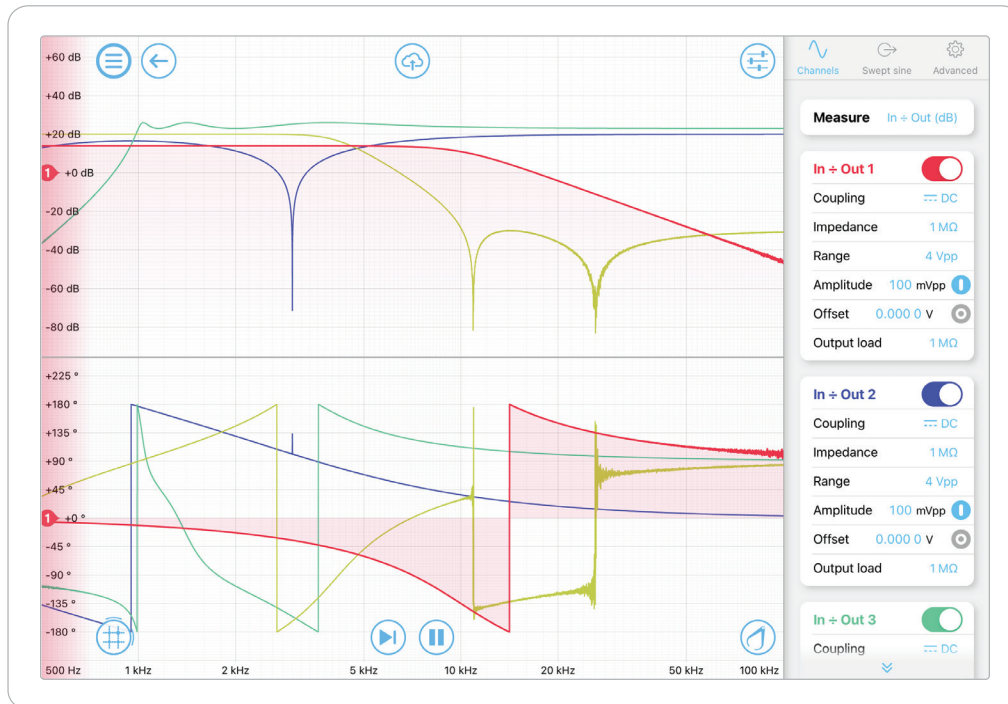




Ultra Low-noise Frequency Response Analyzer

Moku:Pro's Frequency Response Analyzer enables you to measure the frequency response of a system in both magnitude and phase using a swept sine output from 10 mHz to 300 MHz, with a noise floor of < -125 dBm across the entire frequency range. Moku:Pro is equipped with four inputs and outputs ports, enabling differential or ratiometric measurements. Select up to 8192 points per sweep and configure settling and averaging times to balance total sweep duration and signal-to-noise ratio.



Frequency range
Up to 300 MHz

Input impedance
50 Ω or 1 MΩ

Averaging time
1 μs to 10 s

Sweep
Linear/logarithmic

Output voltage range
Up to 10 Vpp

Harmonics detection
Up to 15th

Features

- Linear or logarithmic swept sine output
- Math channel to add, subtract, multiply, or divide response functions as they are acquired
- Measure key metrics with cursors and markers
- Configurable measurement averaging and settling times
- Easily save data and upload to the cloud or Dropbox in common formats
- Probe 4 systems simultaneously, or one system at multiple points
- Demodulate up to 15th harmonic

Specifications

- Frequency range: 10 mHz to 300 MHz
- Averaging time: 1 μs to 10 s
- Settling time: 1 μs to 10 s
- Sweep points: 32, 64, 128, 256, 512, 1024, 2048, 4096, 8192
- Source impedance: 50 Ω
- Output Voltage Range:
 - 2 Vpp
 - 10 Vpp (< 100 MHz)
- Input Impedance: 50 Ω or 1 MΩ
- Input range: 400 mVpp, 4 Vpp, or 40 Vpp
- Noise floor:
 - < 100 kHz: < -125 dBm
 - 100 kHz - 300 MHz: < -135 dBm

Applications

- Impedance measurement
- Capacitance/inductance measurement
- Stability analysis
- Power supply analysis
- EMI filter characterization