



# 4-Channel Ultra-Low-Noise Data Logger

Moku:Pro's Data Logger enables you to log data to its 120 GB internal solid-state drive with sampling rates of up to 10 MSa/s. Four inputs are equipped with dual 10-bit and 18-bit ADCs. With blended ADC technology, input noise is down to 30 nV/-Hz at 100 Hz, providing ultra-low noise data logging from acoustic to RF frequencies. Moku:Pro is also equipped with a 10 MHz clock synchronization I/O, and four 500 MHz outputs, allowing flexible integration with other electronics.



|                              |  |                                    |                                   |                                       |   |
|------------------------------|--|------------------------------------|-----------------------------------|---------------------------------------|---|
| <b>Number of Inputs</b><br>4 | <b>Acquisition Rate</b><br>10 MSa/s to SSD | <b>Input Range</b><br>Up to 40 Vpp | <b>Input Coupling</b><br>AC or DC | <b>Input Impedance</b><br>50 Ω / 1 MΩ | <b>Waveform Generator</b><br>Integrated |
|------------------------------|--|------------------------------------|-----------------------------------|---------------------------------------|---|

## Features

- Log voltage data on four independent channels to its 120 GB SSD.
- Built-in four-channel waveform generator, up to 500 MHz.
- 10 MHz clock synchronization ports.
- Easily export data to computer, Dropbox, and other cloud-based services.
- Schedule your log to start with a delay of up to 10 days

## Specifications

- Input ranges: 0.4 Vpp, 4 Vpp or 40 Vpp
- Input Impedance: 50 Ω / 1 MΩ
- Input coupling: AC/DC
- Maximum sampling rate:
  - 10 MSa/s for 1 channel
  - 5 MSa/s for 2 channels
  - 2.5 MSa/s for 4 channels
- Minimum sampling rate: 10 Sa/s
- Acquisition mode:
  - Normal: direct downsampling
  - Precision mode: improves resolution by averaging

## Applications

- Temperature monitoring
- Vibration analysis
- Environment monitoring
- Sensor logging