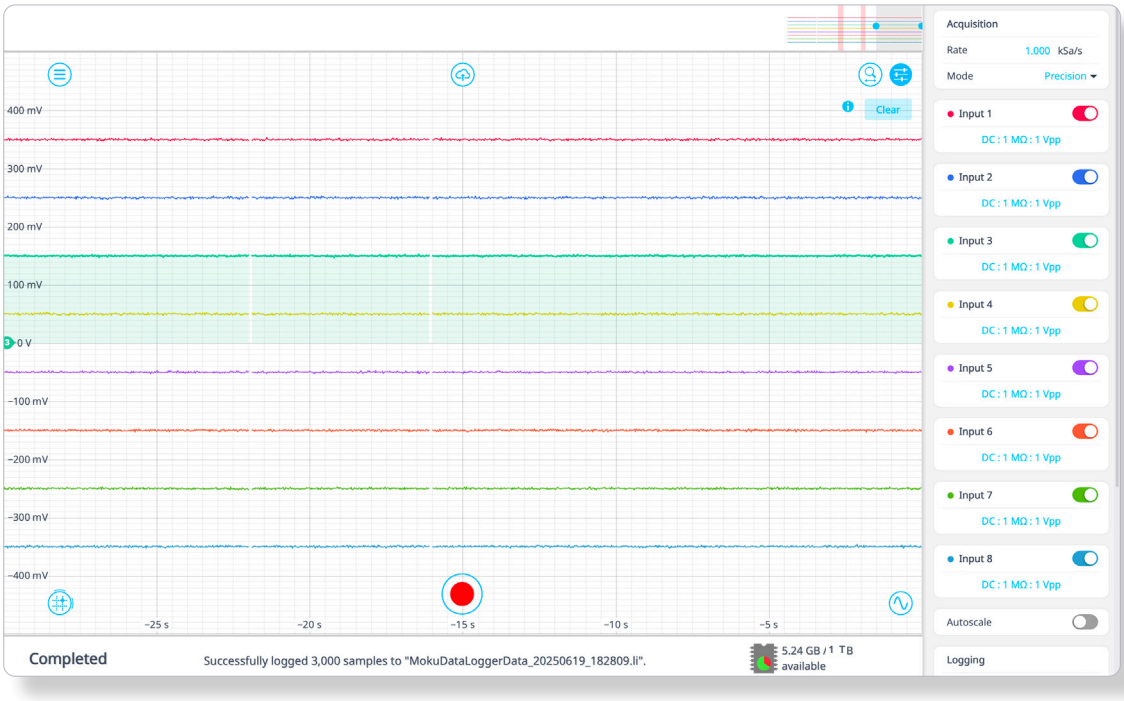
Moku:Delta Instrument Datasheet

Data Logger



The Moku:Delta Data Logger features eight analog input channels with ultra-low noise performance (< 10 nV/√Hz). Data can be logged directly to the integrated 1 TB SSD or streamed to network storage via API at a rate of up to 10 MSa/s, making it ideal for high-speed, long-duration measurements. With GPS-disciplined timing and support for external 10 MHz and 100 MHz clock references, Moku:Delta delivers a flexible and precise solution for applications such as multi-channel sensor monitoring, quantum optics, and real-time experimental control.



Number of Inputs	Acquisition Rate	Input Range	Onboard storage	External Clock Reference Options	Sine Wave Generator
8	**10 MSa/s to SSD**	**Up to 40 Vpp**	**1 TB SSD**	**10 MHz, 100 MHz, GPS**	**4 Channels Integrated**

Features

- Log voltage data on eight independent channels to the internal 1 TB SSD
- Built-in four-channel signal generator, up to 2 GHz
- Onboard GPS receiver for GPS-disciplined oscillator capability
- Easily export data to computer, Dropbox, and other cloud-based services
- Schedule the log to start with a delay of up to 10 days, or by external triggered start
- Stream data directly to your computer using Moku APIs, including Python and MATLAB

Specifications

- Input ranges: 100 mVpp, 1 Vpp 10 Vpp, or 40 Vpp
- Input Impedance: 50 Ω / 1 MΩ
- Input coupling: AC / DC
- Maximum acquisition rate:
  - 10 MSa/s for 1 channel
  - 5 MSa/s for 2 channels
  - 2.5 MSa/s for 4 channels
  - 1.25 MSa/s for 8 channels
- Minimum acquisition rate: 10 Sa/s
- Acquisition mode:
  - Normal: direct downsampling
  - Precision: improves resolution by averaging
  - Peak detect: capture high and low amplitude samples

Applications

- Quantum optics
- Vibration analysis
- Environment monitoring
- Time-Correlated Single-Photon Counting (TCSPC)
- High-Frequency RF Signal Logging

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Note: All Moku:Delta specifications are subject to change.