

# Moku:Go

Flexible, portable design and test tool



Moku:Go is a portable design and test tool to help engineers prototype from anywhere and give students new ways to learn essential concepts from circuits to senior design. Moku:Go features 14 instruments and optional programmable power supplies. With Multi-instrument Mode, you can deploy two instruments simultaneously to create a custom test bench. Moku:Go eliminates the need for bulky benchtop instruments and empowers you to work wherever you are. Hardware features include a Wi-Fi hotspot, integrated high-quality connectors with enhanced electrical protection, USB-C for data, and six color options. An intuitive user interface (UI) is included and API support integrates with your existing automation and teaching tools.



<b>Analog inputs/outputs</b> Two 12 bit, 125 MSa/s	<b>Input bandwidth</b> 30 MHz	<b>Digital I/O</b> 16-channel @ 125 MSa/s	<b>Output bandwidth</b> 20 MHz	<b>Programmable power supplies</b> 2- or 4-channel option
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## 14 powerful instruments

- Arbitrary Waveform Generator
- Data Logger
- Digital Filter Box
- Frequency Response Analyzer
- FIR Filter Builder
- Laser Lock Box
- Lock-in Amplifier
- Logic Analyzer
- Oscilloscope / Voltmeter
- Phasemeter
- PID Controller
- Time & Frequency Analyzer
- Spectrum Analyzer
- Waveform Generator

## Programmable power supplies

### 2-channel option

- +5 to -5 V @ 150 mA
- 0 to 16 V @ 150 mA

### 4-channel option

- 2-channel option, plus
- Dual 0.6 to 5 V @ 1 A

## Specifications

### Analog inputs

- Two 12 bit, 125 MSa/s input channels
- 30 MHz analog bandwidth (-3 dB)
- AC or DC coupling with 1 M $\Omega$  impedance
- Input range up to  $\pm 25$  V

### Analog outputs

- Two 12 bit, 125 MSa/s output channels
- 20 MHz analog bandwidth (-3 dB, low impedance)
- $\pm 5$  V maximum output range

### Digital I/O

- 16-channel DIO at 125 MSa/s
- Support 3.3 V (5 V tolerant) logic level

### Programming environment

- API support for Python, MATLAB, LabVIEW, and more
- Windows, macOS, iPadOS, or visionOS
- Moku Cloud Compile support for FPGA customization

## Models

### M0

- 2 analog inputs, 2 analog outputs and 16 DIO
- USB-C, Wi-Fi, software, and APIs

### M1

- All features from M0
- 2-channel programmable power supply

### M2

- All features from M0
- Ethernet
- 4-channel programmable power supply

## Options & accessories

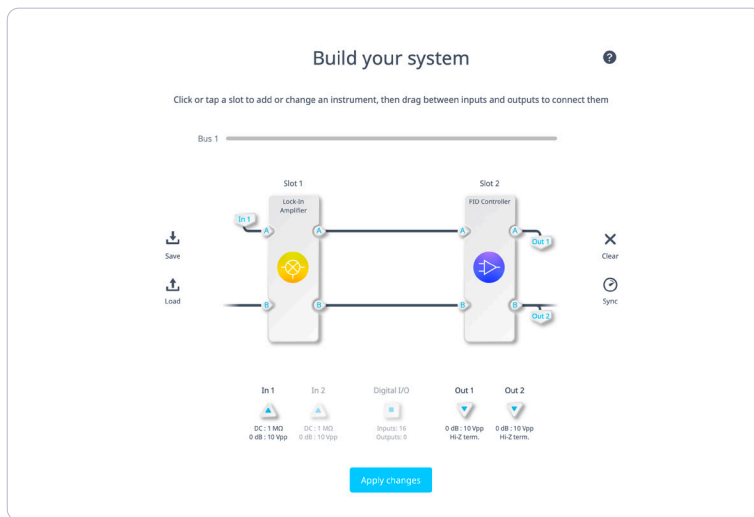
- All models include: 2 oscilloscope probes, DIO cabling, power adapter, USB-C cable
- Supported models include: Ethernet cable and power supply cables
- 6 standard colors



For full specifications and education pricing, contact [info@liquidinstruments.com](mailto:info@liquidinstruments.com)

# High-quality hardware and complete feature set, designed to last.

With hardware components including integrated BNC connectors, integrated banana jack connectors for programmable power supplies, a high-grip rubberized base to prevent slippage, and robust electrical protection to ensure safety in the lab, you have everything you need to maximize learning on safe, durable hardware. The Kensington Lock Slot and optional Ethernet make the Moku:Go perfect for bench use, or take it on the road with every model including Wi-Fi and USB.



## The world's most intuitive user interface meets the test bench.

We've brought you a UI that makes teaching difficult concepts easy, and learning them even easier. Use the Moku:Go app for macOS, iPadOS, visionOS, or Windows, to configure any of the instruments and switch between them in seconds. Want your students to experience industry-standard platforms? No problem. Full API integration is available for all major languages, including Python, MATLAB, and LabVIEW.

## Available in six colors

