



## Analog Discovery Studio: A portable circuits laboratory for every student

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Analog Discovery Studio Options: (Required)

- ☐ Analog Discovery Studio
- ☐ Add two BNC Oscilloscope probes and two BNC to mini grabber probes
- ☒ Add two BNC Oscilloscope probes, two BNC to mini grabber probes, and a case

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1

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Description

Features

What's Included

Software

Support

### Analog Inputs:

- Used in the Oscilloscope, Network Analyzer, Spectrum Analyzer, Voltmeter, Impedance Analyzer, and Data Logger
- Two analog input channels, accessible through BNC or MTE connectors
- Channel type: differential (with MTE) or single-ended (with BNC)
- Analog bandwidth with BNC cables: 30+ MHz @ 3dB
- Analog bandwidth with MTE flywires: 9 MHz @ 3dB
- Input range ±25 V (±50 V diff)
- Input protected to ±50 V
- 14-bit resolution
- Operate at 100 MS/s

### Analog Outputs:

- Used in the Waveform Generator and Network Analyzer
- Two arbitrary waveform generator channels, accessible through BNC or MTE connectors
- AC amplitude (max): ±5 V
- Analog bandwidth (BNC or MTE connectors: 8 MHz @ 3dB)
- Operate at 100 MS/s

### Product Compliance:

- HTC: 8471809000
- ECCN: EAR99

### Power Supplies:

- 12 volt supply: 12V ±5%; 0.2 Amps max
- 12 volt supply: -12V ±5%, 0.2 Amps max
- 5 volt supply: 5.0V ±5%; 1.0 Amps max
- 3.3 volt supply: 3.3V ±5%; 1.0 Amps max
- V+ and V- rails: 1V to 5V (V+), and -1V to -5V (V-)
  - Maximum power output: 2.1W for each supply
  - Maximum current output: 700mA for each supply.
- Note: Remove the protective foam from underneath the Breadboard Canvas before using the power supplies**

### Digital Inputs and Outputs:

- Used in the Logic Analyzer, Pattern Generator, Protocol Analyzer, and Digital I/O
- Channels: 16
- Input logic standard: LVCMOS (1.8/3.3V, 5V tolerant)
- Output logic standard: LVCMOS (3.3V, 12mA)

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