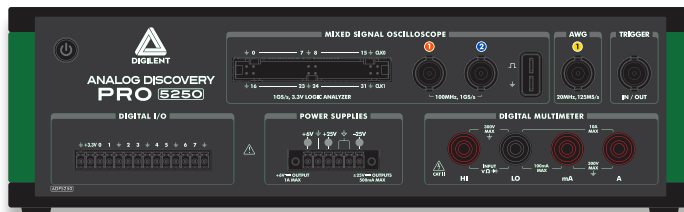


Introducing the Analog Discovery Pro 5000 Series

All-In-One 1GS/s 100MHz Mixed Signal Oscilloscope, Function Generator, Power Supply, and DMM



ANALOG DISCOVERY PRO 5000 SERIES

The ADP5250 brings higher sample rate and bandwidth and a more rugged design to the Analog Discovery Pro family, keeping our free highly rated WaveForms application software at the controls

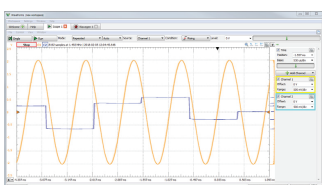
Higher Sample Rate and Bandwidth Mixed Signal Oscilloscope

Designed to combine a complete set of instruments into a flexible and programmable device, the ADP5250 features a mixed-signal oscilloscope with two 100 MHz, up to 1 GS/s analog input channels, one waveform generator with up to with up to 20 MHz sine output, 34 digital channels at a sample rate of up to 100 MS/s, a tri-output power supply capable of up to 25 V, an external trigger, and a built-in programmable DMM.

Ultimate All-In-One Test System

Analog Discovery Pro devices feature a variety of advanced triggering options. Instruments within WaveForms can be cross-triggered, for example, by activating an oscilloscope capture based on a received and decoded digital protocol. In addition, external signals can trigger events using the dedicated external trigger input/output. Our free WaveForms software provides these features configurable in the instruments themselves, or for more control or automation in one of the available scripting interfaces.

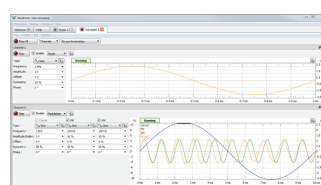
Oscilloscope



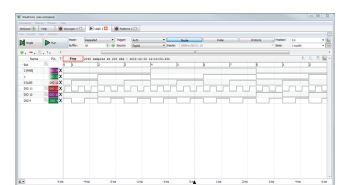
Spectrum Analyzer



Waveform Generator



Logic Analyzer



Analog Inputs:

- Used in the Oscilloscope, Network Analyzer, Spectrum Analyzer, and Impedance Analyzer
- Two analog input channels accessible via front panel BNC connectors
- Channel type: single ended
- Analog bandwidth: 100 MHz (@ 3 dB)
- 8-bit resolution
- Max sampling rate: 1 GS/s single channel
- Maximum input range: 40V
- AC or DC coupling
- Maximum record length: 1 MS per channel

Analog Outputs:

- Used in the Waveform Generator, Impedance Analyzer, and Network Analyzer
- One channel accessible via a front panel BNC connector
- 14-bit resolution
- AC amplitude (max): ± 12 V
- Maximum analog bandwidth: 50 MHz (@ 3 dB)
- Maximum sampling rate: 125 MS/s

Power Supplies:

- Digital supply: 3.3 V, 20 mA
- DC power supplies:
- 0 to 6 V variable, 1 A max current
- 0 to 25 V variable, 500 mA max current (isolated)
- 0 to -25 V variable, 500 mA max current (isolated)

Digital Multimeter:

- Used in the DMM instrument
- Functions: DC voltage, AC voltage, DC current, AC current, resistance, diode, continuity
- Resolution: 5 1/2 digits
- Sample rate 5 S/s
- Input protection:
- Resistance, diode: up to 300 V DC
- DC and AC voltage: up to 300 V DC or 265 VAC (rms) 400 V AC (peak)
- DMM A current connector fuse: internal ceramic fuse, 10 A 250 V, time-delay, 5 x 20 mm, T 10 A H 250 V
- DMM mA current connector fuse: internal ceramic fuse, 1.25 A 250 V, time-delay, 5 x 20 mm, T 1.25 A H 250 V
- Maximum common-mode voltage: 300 V DC or AC (rms)

Digital Inputs:

- Used in the Logic Analyzer
- Channels: 34
- Input voltage: 0V to 5 V
- Input threshold: 0 to 2 V
- Max sampling rate: 100 MS/s
- Typical record length: 1 MS

Digital Inputs and Outputs:

- Used in the Static I/O instrument
- Channels: 8
- Input logic standard: 5 V compatible TTL
- Output logic standard: 3.3 V LVTTTL

Advanced Triggering:

- Trigger sources: oscilloscope analog channels, function generator start, digital inputs, digital I/O, power line frequency, external trigger
- Trigger modes
Normal, auto, force, single
- Analog trigger
Edge with hysteresis
- Digital trigger
Edge, level, pattern, glitch
- External trigger:
5V compatible TTL input or 3.3V LVTTTL output
4 mA drive strength

Connectivity:

- Device to computer: USB 2.0 Hi-Speed

Connectivity:

- Auxiliary powered
- Shock and vibration tested (details in the specification sheet)