PXI Oscilloscope Bundles

Expandable PXI Bundles with Oscilloscope

Use NI PXI Oscilloscope Bundles for

- Combining measurements from different instruments in one system
- Interactively exercising devices-under-test using nocode InstrumentStudio PC software
- Automated device validation
- High-channel-count test applications



Popular Features

Scalability

Simplify benchtop configurations by Combining instruments without buying more boxes

Performance

Sample at speeds up to 5 GS/s with up to 1.5 GHz of analog bandwidth

Memory

Store multiple channel acquisitions on same device with up to 2 GB of on-board memory



Do more in one box with NI PXI

The NI PXI Oscilloscope Bundles each include a PXIe Oscilloscope in a 5-slot PXI Express based measurement system that is controlled through your laptop's Thunderbolt™ USB-C port.

Achieve high accuracy, high productivity, and higher speeds with the standard for automated test and automated measurement: NI PXI (PCI eXtensions for Instrumentation).



With the PXI Oscilloscope, acquire and analyze time- and frequency- domain analog signals. The PXI Oscilloscope Bundles feature up to 8 channels that can sample at speeds up to 5 GS/s with 1.5 GHz of analog bandwidth.

Bundle	What is Included			Key Specifications				
	Chassis	Module	Accessories	Channel	Bandwidth	Resolution	Speed	Memory
PXIe-SCP5100 P/N: 867010-01	PXIe-1083 (5-slot Chassis)	PXIe-5105	 SMB Female to Mini- Alligator Clips (x2) Thunderbolt cable Power cable, US 	8	60 MHz	12 bits	60 MS/s	128 MB
PXIe-SCP5101 P/N: 867011-01	PXIe-1083	PXIe-5110	SP500X probe (x2)Thunderbolt cable Power cable, US	2	100 MHz	8 bits	1 GS/s	512 MB
PXIe-SCP5102 P/N: 867012-01	PXIe-1083	PXIe-5111	SP500X probe (x2)Thunderbolt cablePower cable, US	2	350 MHz	8 bits	3 GS/s	512 MB
PXIe-SCP5103 P/N: 867013-01	PXIe-1083	PXIe-5113	SP500X probe (x2)Thunderbolt cablePower cable, US	2	500 MHz	8 bits	3 GS/s	512 MB
PXIe-SCP5104 P/N: 867014-01	PXIe-1083	PXIe-5172*	 SMB Female to Mini- Alligator Clips (x2) Thunderbolt cable Power cable, US 	8	100 MHz	14 bits	250 MS/s	1.5 GB
PXIe-SCP5105 P/N: 867015-01	PXIe-1083	PXIe-5162	SP500X probe (x4)Thunderbolt cablePower cable, US	4	1.5 GHz	10 bits	5 GS/s	2 GB



Upgrade and do more with your system!

Use the remaining 4 slots to build on top of your system and manage change. Add measurements, more channels, or new analysis routines without having to purchase a whole new instrument. Don't be limited by vendor-defined configurations; explore over 600 different PXI modules ranging from DC to mmWave.



Oscilloscopes

- Sample at speeds up to 12.5 GS/s
- 6 GHz of analog bandwidth





Digital Multimeters

- Voltage measurements up to 1,000 VDC
- Current measurements up to 3 A
- Resistance measurements up to 5 G Ω
- Isolated Digitizer mode Up to 1.8 MS/s

Start with PXIe-4080



Digital Instruments

- 32-channel module (up to 512 per
- 100 MHz vector rate, 39 ps displacement
- Digital voltage -2 V to 6 V,
- PPMU force voltage -2 V to 7 V

Waveform Generators

- Up to two 16-bit channels per module
- 800 MS/s with 20, 40, and 80 MHz bandwidth
- Up to 34 channels to build parallel
- Max ±12 V and min ± 7.75 mV output



Start with PXIe-6570

Counters/Timer

- Up to eight 32-bit counter/timers
- TTL/CMOS-compatible digital I/O
- Up to 80 MHz measure frequency
- Onboard high-precision oscillators



Start with PXIe-5413

Source Measure Units (SMU)

- Up to 24 channels (408 per chassis)
- Up to 200 V and 3 A (10 A pulse)
- Current sensitivity down to 10 fA
- Max power per channel of 40W (500W

Start with PXIe-6612



Power Supplies

- Two isolated, 60W channels per
- Hardware timing and triggering
- Output disconnect relays
- Four-wire remote sense



Reconfigurable IO (FPGA)

Start with PXIe-4139

- Variety of on-board FPGA options
- 12-bit to 18-bit analog input resolution
- Up to 16 analog channels and 126 bidirectional channels
- Up to 1 MS/s analog sample rate



Switches

- Electromechanical, Reed, solid state. FET
- Up to 150 V or 2 A
- Up to 544 cross points in a single
- 1- and 2-wire options Start with PXIe-2527



Start with PXIe-7856

Digital Waveform Instrument

- Standard TTL/CMOS interface voltages and programmable voltage levels
- 32 bidirectional digital channels
- Advanced waveform sequencing and streaming features

Start with PXIe-6548



LCR Meter

- Current sensitivity as low as 1 fA
- Frequency up to 2 MHz
- Max Voltage of +/- 40V

Start with PXIe-4190



Multifunction IO

- Voltage measurements up to 10 MS/s/ch
- Analog I/O, Digital I/O, and Counters in a single device
- High speed simultaneous sampling up to 14MS/s/ch
- Up to 836 Al single ended channels in 4U of rack space

Start with PXIe-6363



Choose how you like to work with flexible NI Software

Interactive- skip programming and control your instruments with InstrumentStudio

- Control all your instruments in a single, intuitive nocode application software.
- Capture screenshots, export data, and share projects with colleagues and between systems.
- Monitor and debug automated test systems

Programming- Build an Automated Test System with LabVIEW

- Acquire, process and analyze data from NI hardware, 3rd party instruments, and many industrystandard protocols
- Create interactive UIs for test monitoring and control.
- Save data to .csv, .tdms, or any custom-defined binary file.
- Integrate code written in Python, C/C++, .NET, and MathWorks MATLAB® software.

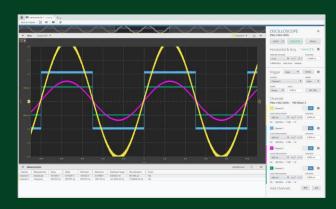
Why choose? Program or don't based on your task with a Test Workflow Bundle

- Create automated test sequences with TestStand
- Perform data acquisition and logging with FlexLogger™ software
- Build web applications for test with G Web Development Software
- Interactively analyze your data with Diadem

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With InstrumentStudio, view data from all your instruments unified on high-resolution monitors rather than small, integrated displays.



"The move to a COTS approach using PXI and LabVIEW was critical to this production-test success at Philips. The combination of best-in-class modular hardware along with industry-standard software was pivotal to the millions of dollars and hundreds of hours saved in production test engineering"

-Neil Evans Senior Manager, Philips



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