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dataTec AG
E-Mail: info@datatec.eu
>>> www.datatec.eu



Authorized
Distributor

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 no-code 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 | <ul style="list-style-type: none">SMB Female to Mini-Alligator Clips (x2)Thunderbolt cablePower cable, US | 8 | 60 MHz | 12 bits | 60 MS/s | 128 MB |
| PXIe-SCP5101 P/N: 867011-01 | PXIe-1083 | PXIe-5110 | <ul style="list-style-type: none">SP500X probe (x2)Thunderbolt cablePower cable, US | 2 | 100 MHz | 8 bits | 1 GS/s | 512 MB |
| PXIe-SCP5102 P/N: 867012-01 | PXIe-1083 | PXIe-5111 | <ul style="list-style-type: none">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 | <ul style="list-style-type: none">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* | <ul style="list-style-type: none">SMB Female to Mini-Alligator Clips (x2)Thunderbolt cablePower cable, US | 8 | 100 MHz | 14 bits | 250 MS/s | 1.5 GB |
| PXIe-SCP5105 P/N: 867015-01 | PXIe-1083 | PXIe-5162 | <ul style="list-style-type: none">SP500X probe (x4)Thunderbolt cablePower cable, US | 4 | 1.5 GHz | 10 bits | 5 GS/s | 2 GB |

**The PXIe 5172 also features a programmable Kintex-7 325T FPGA that can be used for custom acquisition, triggering, signal processing, and data streaming*



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
- Numerous triggering modes
- Up to 24-bit resolution

Start with PXIe-5160



Digital Multimeters

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

Start with PXIe-4080



Digital Instruments

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

Start with PXIe-6570



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 ranges

Start with PXIe-5413



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-6612



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 pulse)

Start with PXIe-4139



Power Supplies

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

Start with PXI-4110



Reconfigurable IO (FPGA)

- 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

Start with PXIe-7856



Switches

- Electromechanical, Reed, solid state, FET
- Up to 150 V or 2 A
- Up to 544 cross points in a single PXI slot
- 1- and 2-wire options

Start with PXIe-2527



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 ± 40 V

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 AI single ended channels in 4U of rack space

Start with PXIe-6363

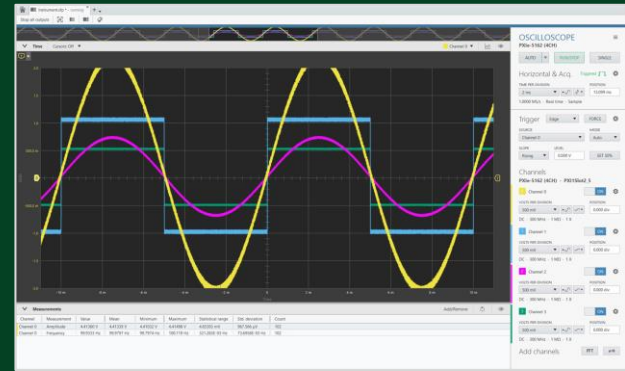
Contact your NI product expert to get help solving your test challenges.



Choose how you like to work with flexible NI Software

Interactive- skip programming and control your instruments with InstrumentStudio

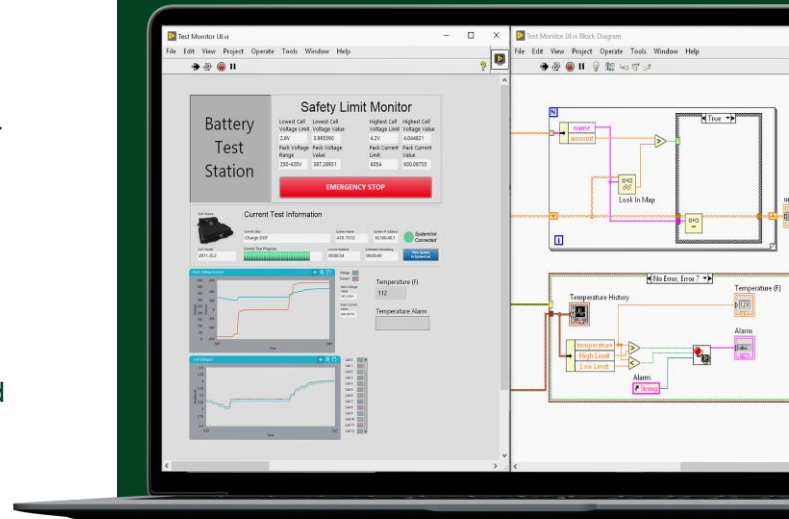
- **Control** all your instruments in a single, intuitive no-code application software.
- **Capture** screenshots, **export** data, and **share** projects with colleagues and between systems.
- **Monitor and debug** automated test systems



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

Programming- Build an Automated Test System with LabVIEW

- **Acquire, process and analyze data** from NI hardware, 3rd party instruments, and many industry-standard 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

"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

