PXI Multifunction I/O Bundles

PC-based multifunction I/O devices with expansion capability

Use these bundles for

- Automated device validation
- High-channel-count test applications
- Combining measurements from different instruments in one system



Popular Features

Scalability

Simplify your benchtop by combining instruments in a single "box"

Channel Density

up to 4 analog output channels, and up to 48 bi-directional digital channels in one card

Synchronization

Up to 80 analog input channels, Multi-instrument synchronization by sharing timing and trigger signals through the PXI backplane



Do more in one box with NI PXI

The NI PXI Multifunction I/O Bundles include a PXIe multifunction I/O module 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).



The PXI multifunction I/O modules provide a mix of analog I/O, digital I/O, counter/timer, and triggering functionality in a single PXI module.

	PXIe-MI05100 P/N: 867123-01	PXIe-MI05101 P/N: 867124-01
What is Included		
Chassis	PXIe-1083	
Module	PXIe-6345	PXIe-6363
Accessories	Thunderbolt cable Power cable, US* SHC68-68-EPM Shielded Cable x 2 SCB-68A Connector Block x 2	
Key Specifications		
Max no. of single-ended Analog Input channels	80	32
Max Sample Rate	500 kS/s	2 MS/s
Analog Input Resolution	16 bits	16 bits
No. of Analog Output channels	2	4
Max Update Rate	2.86 MS/s	2.86 MS/s
No. of Bidirectional digital channels	24	48

^{*}Check the product datasheet for part numbers with different regional power cords



Upgrade and do more with your system!

Don't be limited by vendor-defined configurations. 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.

Start with these best-selling modules



P/N: 783129-01

Digital Multimeter

PXIe-4080

- 6 ½ digit, ±300 V, ±1A
- 2- or 4-wire resistance measurements up to 5 $G\Omega$
- Isolated Digitizer mode Up to 1.8 MS/s
- · Frequency/period measurements
- · Diode tests



P/N: 783590-02

Oscilloscope

PXIe-5105

- 8 simultaneously-sampled channels
- 12-bit vertical resolution
- · 60 MHz Bandwidth
- 60 MS/s sample rate

P/N: 782856-03

Source Measure Unit

PXIe-4139

- 1-channel
- ±60 V, ±3 A DC, ±10 A Pulsed
- 100 fA Current sensitivity
- Up to 40 W max power



P/N: 785114-01

Waveform Generator

PXIe- 5413

- 20 MHz Bandwidth
- Up to two 16-bit channels
- 800 MS/s
- ±12 V output range



P/N: 779647-11

Power Supply

PXIe-4110

- · Two isolated channels
- Single non-isolated channel
- Up to 20 V, 1 A per channel
- Up to 46 W output power
- · Hardware timing and triggering
- Output disconnect relays
- · Four-wire remote sense



P/N: 780587-27

Multiplexer Switch

PXIe-2527

- 32 channel, 2-wire, 300 V, 2 A
- Electromechanical relay
- Supports 64x1 1-wire, 32x 2 2-wire, 16x1 4-wire configurations
- Onboard relay counting

Select your software

Interactive Measurement with FlexLogger

- Acquire data from instruments in an intuitive no-code application software.
- View test with customizable dashboards, save data, and analyze with inline calculations.
- Set alarms to be notified of unexpected behavior

Free Trial - Download

Graphical Programming in LabVIEW

- Acquire, process, and analyze data from NI hardware or any 3rd party instrument
- Create interactive UIs for test monitoring and control.
- Save data to .csv, .tdms, or any custom-defined binary file.

Use Your Programming Language of Choice

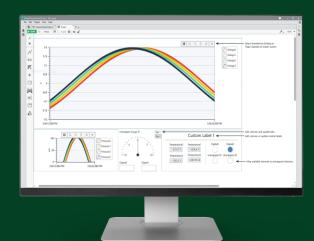
Drivers for Python, C, C++, C#, .NET, and MATLAB®*

A Bundle of Software for Test

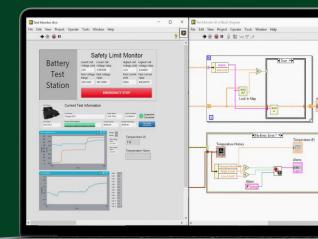
- Develop test systems faster with graphical programming in LabVIEW
- Create automated test sequences with TestStand
- Build web applications for test with G Web Development Software
- Analyze your data interactively with DIAdem
- Perform data acquisition and logging with FlexLogger

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FlexLogger – Fast, Flexible, No-Code Software



"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

