PXI DMM Bundles

PC-based digital multi-meters with interactive measurement software

Use NI PXI DMM Bundles for

- Benchtop or distributed Validation
- Combining measurements from different instruments in one system
- Interactively exercising devices-under-test using no-code InstrumentStudio PC software

Popular Features

Scalability

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

Speed and Accuracy

1.8 MS/s digitizer mode allows high-speed sequenced measurements with accuracy down to 12ppm DC voltage (10V range)

Synchronization

PXI Switch handshaking facilitates automation and multi-instrument synchronization

Do more in one box with NI PXI

The NI PXI DMM Bundles each include a PXI DMM 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).

Thunderbolt 3 connectivity for instrument control from your PC

Multi-instrument synchronization by sharing timing and trigger signals through the backplane

NI PXI or PXIe DMM

4 additional PXIe slots- Simplify your benchtop configurations by combining instruments in one PXI System.

With the PXI DMMs, perform hand-probed, switched, and further automated DMM measurements with high accuracy and resolution. The PXI DMMs deliver fast, accurate AC/DC voltage, AC/DC current, 2- or 4- wire resistance, and frequency/period measurements, as well as diode tests. These bundles feature DMMs with up to 7.5 digits of resolution, 1000 V DC voltage range, 3 A current range and 1.8 MS/s sample rate.

	PXIe-DMM5100 P/N: 867114-01	PXIe-DMM5101 P/N: 867115-01	PXIe-DMM5102 P/N: 867116-01
What is Included			
Chassis	PXIe-1083		
Module	PXI-4065	PXIe-4080	PXIe-4081
Accessories	Thunderbolt cable Power cable, US* P-1 DMM Standard Probe Set, Banana Plugs		
Key Specifications			
Bus Connector	PXI Hybrid	PXI Express	PXI Express
Digits of Resolution	6.5	6.5	7.5
DC Voltage Range	± 300 V	± 300 V	± 1000 V
DC Current Range	± 1 A	± 1 A	± 3 A
Maximum Sample Rate	3 kS/s	1.8 MS/s	1.8 MS/s
Basic DC Voltage Accuracy	90 ppm	25 ppm	12 ppm

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

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: 782856-03

Oscilloscope
PXIe-5105
- 8 simultaneously-sampled channels
- 12-bit vertical resolution
- 60 MHz Bandwidth
- 60 MS/s sample rate

P/N: 783590-02

Multifunction IO
PXIe-6363
- 32 Analog Input (16-bit, 2 MS/s)
- 4 Analog Output
- 48 DIO channels
- 4 32-bit counter/timers

P/N: 781056-01

Waveform Generator
PXIe- 5413
- 20 MHz Bandwidth
- Up to two 16-bit channels
- 800 MS/s
- ±12 V output range

P/N: 785114-01

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: 779647-11

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

P/N: 780587-27

**Explore over 600 different PXI modules ranging from DC to mmWave.
Contact your NI product expert to get help solving your test challenges.**

Select your software

Interactive Measurement 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

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Free! – Download Now

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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.
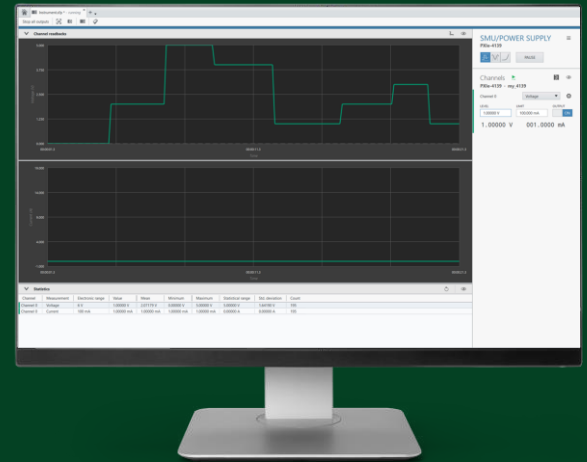
Use Your Programming Language of Choice

▪ **Drivers** for Python, C, C++, C#, .NET, and MATLAB®*
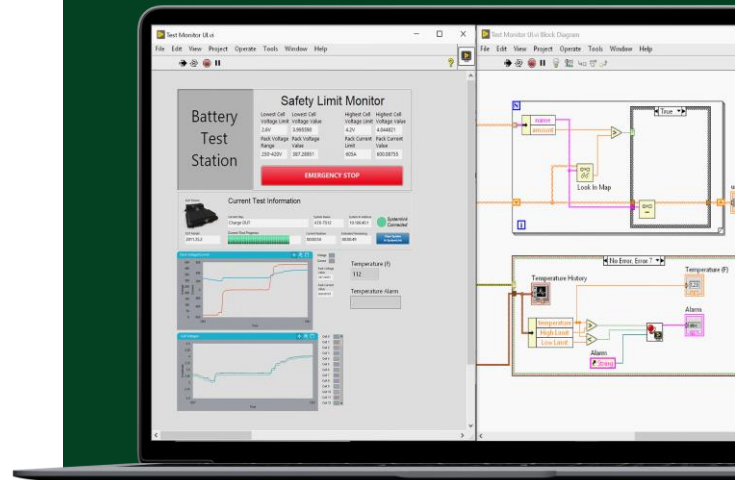
A Bundle of Software for Test

▪ **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

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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