

PXI Programmable Power Supply Bundles

PC-based programmable power supplies with interactive measurement software

Use these 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”

Flexibility

Combine channels in parallel for higher current sourcing

Remote Sense

Use remote sense to correct for losses in system wiring



Do more in one box with NI PXI

The NI PXI programmable Power Supply (PPS) Bundles include a 120 W PXIe PPS 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 PPSs, supply programmable DC power to a device-under test, while controlling and measuring voltage and current levels to flexibly assess power consumption. With two isolated 60 W channels, the PXI PPSs help simplify the task of designing automated test systems by eliminating the need to mix multiple instrumentation form factors in a given test rack. They also have standard output disconnect functionality that allows isolation from the device under test (DUT) when not in use, and remote sense to correct for losses in system wiring.

	PXIe-PPS5100 P/N: 867117-01	PXIe-PPS5101 P/N: 867118-01
What is Included		
Chassis	PXIe-1083	
Module	PXIe-4112	PXIe-4113
Accessories	Thunderbolt cable Power cable, US* Screw terminal connector kit	
Key Specifications		
Number of Power Supply Channels	2	2
Analog Output Voltage Range	0 V to 60 V	0 V to 10 V
Maximum Current	1 A	6 A
Total Output Power	120 W	120 W

*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, ± 1 A
- 2- or 4-wire resistance measurements up to 5 G Ω
- 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: 781056-01

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: 785114-01

Waveform Generator

PXIe-5413

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



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: 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

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

[Free! – Download Now](#)

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

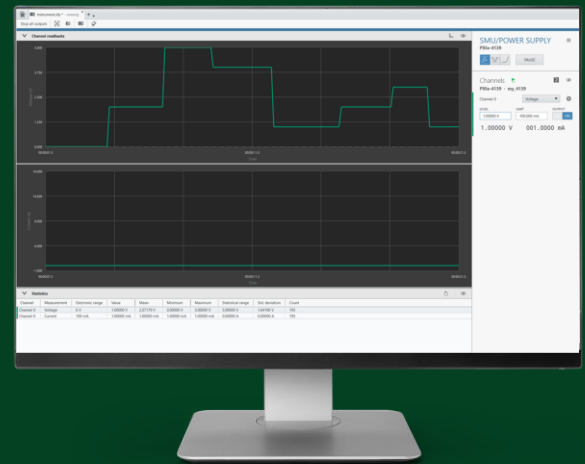
- **Drivers** for Python, C, C++, C#, .NET, and MATLAB®*

A Bundle of Software for Test

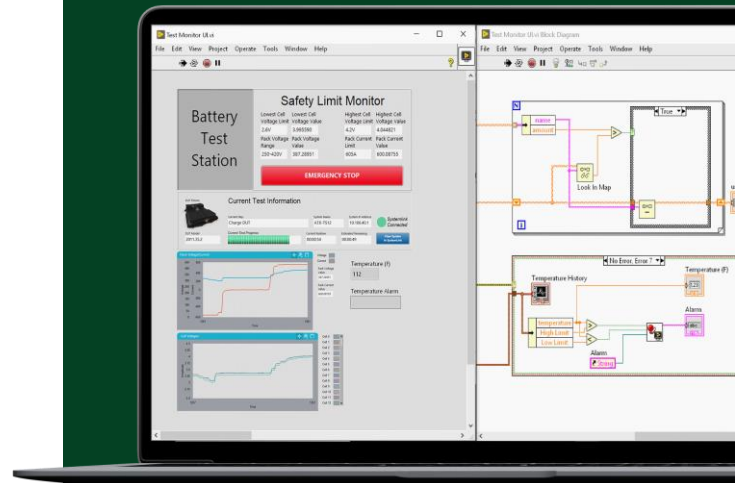
- **Develop** test systems faster with graphical programming in LabVIEW
- **Create** automated test sequences with TestStand
- **Build** web applications for test with G Web Development Software
- **Analyze** your data interactively with DIAdem
- **Perform** data acquisition and logging with FlexLogger

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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

