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Mess- und Prüftechnik. Die Experten.

# PXI Nanovolt Meter Bundle

PC-based nanovolt meter with expansion capability

### Use this bundle for

- Automated device validation
- Integrated circuit characterization
- High performance power measurements
- 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"

### High Performance

Up to 28 bits resolution, and very high density nV-level measurements with low noise floor, as well as built-in averaging and auto-zeroing

### Channel Count

Up to 32 single-ended multiplexed Analog Input channels

# Do more in one box with NI PXI

The NI PXI Nanovolt Meter Bundle includes a PXIe-4309 analog input module in a 5-slot PXI Express based measurement system that is controlled through your laptop's Thunderbolt<sup>™</sup> 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).



PXIe-4309 is a flexible, high resolution analog input module with up to 28 bits resolution. The module features on-board signal averaging and filtering, auto-zero measurement switching, and a chopping mode that uses a pair of channels to provide high levels of noise rejection which enables accurate and repeatable nano-volt measurements.

<b>PXIe-AI5100</b> P/N: 867125-01	
What is Included	
Chassis	PXIe-1083
Module	PXIe-4309
Accessories	Thunderbolt cable Power cable, US* TB-4309 Front-mounted Terminal Block
Key Specifications	
Resolution	18-24 bits (depending on sample rate)
No. of simultaneous differential Analog Input channels	8
No. of single-ended multi-plexed Analog Input channels	32 (at 100k S/s/ch)
Max. Sample Rate	2 MS/s/ch
Analog Input Voltage Range	±0.1 V, ±1 V, ±10 V, ±15 V

\*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



#### Oscilloscope PXIe-5105

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

P/N: 782856-03

P/N: 783590-02



### PXIe-6363• 32 Analog Input (16-bit, 2 MS/s)

- 4 Analog Output
- 48 DIO channels
- 4 32-bit counter/timers

**Multifunction IO** 

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: 781056-01



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

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 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 3<sup>rd</sup> 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

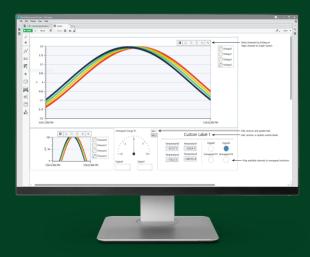
Drivers for Python, C, C++, C#, .NET, and MATLAB®\*

### A Bundle of Software for Test

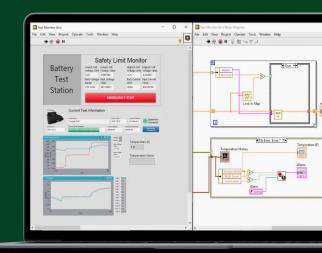
- Develop test systems faster with graphical programming in LabVIEW
- Create automated test sequences with TestStand
- Build web applications for test with G Web Development Software
- Analyze your data interactively with DIAdem
- Perform data acquisition and logging with FlexLogger

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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