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Mess- und Prüftechnik. Die Experten.

PXI LCR Bundles

PC-based LCR Meters & SMUs with interactive measurement software

Use PXI LCR Bundles for

- CV/IV testing with high channel density and no connection changes at the device under test (DUT)
- MEMS Structure Electrical Test
- Wafer Parametric Test
- Multilayer Ceramic Capacitor (MLCC)
 Validation & Test
- Combining measurements from different instruments in one system



Popular Features

2-in-1

SMU and LCR meter combined in single instrument for an elegant bench solution

Scalability

Combine with other types of instruments to build tightly integrated mixed-signal test systems

Precision

Femtofarad-class capacitance measurements and femtoampereclass current measurements



Do more in one box with NI PXI

The NI PXI LCR Bundles include a PXIe LCR Meter 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).



Make DC and impedance measurements in a seamless fashion with NI's PXIe-4190 - the world's first LCR Meter and SMU in a single instrument. This instrument provides femto-farad (10-15) class capacitance measurements and femto-amp current measurements in a single-slot PXI form factor. The new PXIe-4190 also removes the need for an additional switch to multiplex between the LCR Meter and SMU, allowing for a simplified test experience with higher throughput and lower capital cost.

	PXIe-LCR5100 P/N: 867113-01	PXIe-LCR5101 P/N: 867126-01
What is Included		
Chassis	PXIe-1083	
Module	PXIe-4190 (40V)	PXIe-4190 (10 V)
Accessories	Thunderbolt cable Power cable, US DSub-to-BNC cable for I/O connectivity	
Key Specifications		
Bandwidth	2 MHz	500 kHz
Voltage Range	± 40 V DC Bias	± 10 V DC Bias
Max Current	100 mA	100 mA
Current Ranges	100 mA, 10 mA, 1 mA 100 μA, 10 μA, 1uA, 10nA, 1nA	-100 mA - 100 mA

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
- 6 ½ digit, ±300 V, ±1A
 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



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: 783590-02

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

- 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

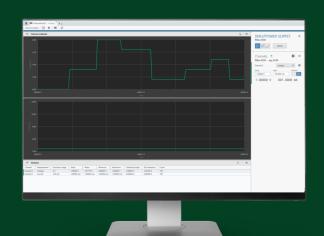
Drivers for Python, C, C++, C#, .NET, and MATLAB®*

A Bundle of Software for Test

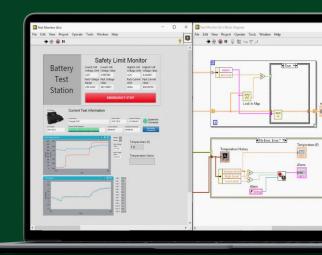
- Develop test systems faster with graphical programming in LabVIEW
- Create automated test sequences with TestStand
- Build web applications for test with G Web Development Software
- Analyze your data interactively with DIAdem
- Perform data acquisition and logging with FlexLogger

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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 productiontest 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