PXI LCR Bundle

Expandable PXI Bundle with LCR Meter

Use PXI LCR Bundle for

- Combining measurements from different instruments in one system
- 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



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 femtoampere-class current measurements



Do more in one box with NI PXI

The NI PXI LCR Bundle includes a PXIe-4190 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	
What is Included	
Chassis	PXIe-1083
Module	PXIe-4190
Accessories	Thunderbolt cable Power cable, US DSub-to-BNC cable for I/O connectivity
Key Specifications	
Bandwidth	2 Mhz
Voltage Range	± 40 V DC Bias
Max Current	100 mA
Current Ranges	100 mA, 10 mA, 1 mA 100 μA, 10 μA, 1uA, 10nA, 1nA



Upgrade and do more with your system!

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. Don't be limited by vendor-defined configurations; explore over 600 different PXI modules ranging from DC to mmWave.



Oscilloscopes

- Sample at speeds up to 12.5 GS/s
- 6 GHz of analog bandwidth
- Numerous triggering modes
- Up to 24-bit resolution

Start with PXIe-5160



Digital Multimeters

- Voltage measurements up to 1,000 VDC
- Current measurements up to 3 A
- Resistance measurements up to 5 G Ω
- Isolated Digitizer mode Up to 1.8 MS/s

Start with PXIe-4080



Digital Instruments

- 32-channel module (up to 512 per
- 100 MHz vector rate, 39 ps displacement
- Digital voltage -2 V to 6 V,
- PPMU force voltage -2 V to 7 V

Waveform Generators

- Up to two 16-bit channels per module
- 800 MS/s with 20, 40, and 80 MHz
- Up to 34 channels to build parallel
- Max ±12 V and min ± 7.75 mV output

Start with PXIe-6570

Counters/Timer

- Up to eight 32-bit counter/timers
- TTL/CMOS-compatible digital I/O
- Up to 80 MHz measure frequency
- Onboard high-precision oscillators



Start with PXIe-5413

Source Measure Units (SMU)

- Up to 24 channels (408 per chassis)
- Up to 200 V and 3 A (10 A pulse)
- Current sensitivity down to 10 fA
- Max power per channel of 40W (500W

Start with PXIe-6612

Power Supplies

- Two isolated, 60W channels per
- Hardware timing and triggering
- Output disconnect relays
- Four-wire remote sense



Reconfigurable IO (FPGA)

Start with PXIe-4139

- Variety of on-board FPGA options
- 12-bit to 18-bit analog input resolution
- Up to 16 analog channels and 126 bidirectional channels
- Up to 1 MS/s analog sample rate



Switches

- Electromechanical, Reed, solid state. FET
- Up to 150 V or 2 A
- Up to 544 cross points in a single
- 1- and 2-wire options Start with PXIe-2527



Digital Waveform Instrument

Start with PXIe-7856

- Standard TTL/CMOS interface voltages and programmable voltage levels
- 32 bidirectional digital channels
- Advanced waveform sequencing and streaming features

Start with PXIe-6548



Multifunction IO

- Voltage measurements up to 10 MS/s/ch
- Analog I/O, Digital I/O, and Counters in a single device
- High speed simultaneous sampling up to 14MS/s/ch
- Up to 836 Al single ended channels in 4U of rack space

Start with PXIe-6363

Contact us for more info and to schedule a live demo of the LabVIEW capabilities

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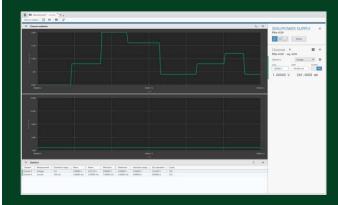
- Control all your instruments in a single, intuitive nocode application software.
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"The move to a COTS approach using PXI and LabVIEW was critical to this production-test success at Philips. The combination of best-in-class modular hardware along with industry-standard software was pivotal to the millions of dollars and hundreds of hours saved in production test engineering"

-Neil Evans Senior Manager, Philips

