

60-104 2-Slot USB/LXI Modular Chassis

- Fully Compliant LXI Interface (1.4)
- Ethernet 1000baseT Interface
- USB 3 Compatible
- Supports 1000+ Pickering PXI 3U Modules Including:
 - Programmable Resistors
 - Matrices
 - Multiplexers
 - General Purpose Relays
 - RF Switches
 - Fault Insertion
- Supports Two User Slots
- Compact 1/2 Rack Width 1U Form Factor
- 3 Year Warranty



60-104 Chassis
With Two
Pickering PXI
Modules Inserted

Pickering Interfaces' 60-104 modular chassis offers a small lightweight form factor, making it ideal for portable, benchtop, and space restrictive applications.

The 60-104 supports one or two 3U PXI modules and accepts Pickering's PXI products, it is the perfect platform to construct small scale applications.

Possible systems include switching matrices up to 1104 crosspoints (one 40-560 BRIC2 occupying both slots) or up to 36 channels of programmable resistor / sensor emulation (two 40-295A or 40-297 18-channel resistor modules - one in each slot).

For a list of compatible PXI modules, please refer to the 60-104 user manual.

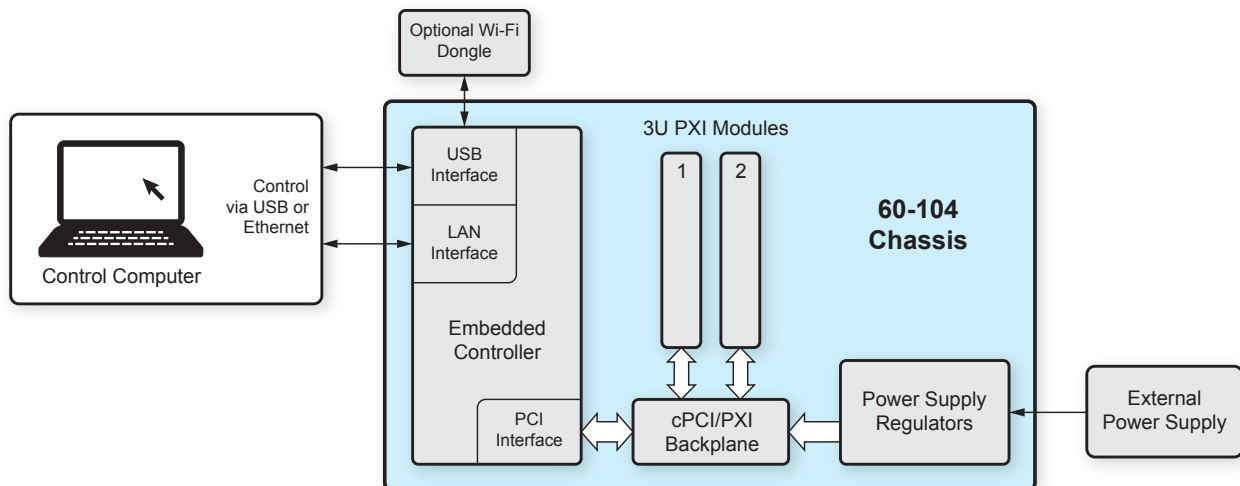
The USB compatible and LXI compliant interfaces enable the chassis to be controlled directly through standard interfaces found on most personal computers, allowing for a very cost effective route into the modular test and measurement market.

Pickering's Range of PXI/LXI/USB Chassis		
Part Number	Description	Control Options
60-104-001	2-Slot USB/LXI Modular Chassis	USB/LXI
60-102B-001	7-Slot LXI Modular Switching Chassis	LXI
60-103B-001	18-Slot LXI Modular Switching Chassis	LXI
40-922A-001	8-Slot PXI Chassis	Remote interface / Embedded controller
40-923A-001	19-Slot PXI Chassis	Remote interface / Embedded controller

The option of a Wi-Fi dongle is useful for control from mobile devices via HTML5 SFP.

The chassis can be controlled through built in software drivers. Chassis configuration and module control is possible through the W3C web page interface.

The 60-104 is powered from an external DC supply, making it lightweight, versatile and extremely portable.



60-104 Modular Chassis Block Diagram

Specification

Chassis Backplane:	32-bit backplane, compatible with cPCI/PXI.
Chassis Capacity:	2 off 3U user slots available.

PXI Module compatibility

The chassis is supplied with drivers for Pickering PXI modules.

Switching Support	Most of 3U Pickering Interface's PXI switching modules. Includes (but not limited to): All 2-slot 3U BRIC matrices, featuring up to 1104 crosspoints.
Simulation support:	All programmable resistor and potentiometer modules offering up to 36 channels, RF attenuators, digital I/O and other simulation modules.

Programming

All LXI devices are supplied with built-in software drivers, web pages for configuration and soft front panels as required by the LXI specification.

A variety of drivers are provided (C, .NET, IVI, SOAP) which are compatible with all Microsoft supported versions of Windows and popular older versions. These drivers may be used in many commonly used programming environments and applications including:

- **National Instruments** (LabVIEW, LabWindows/CVI, Switch Executive, Test Stand, MAX etc.)
- **Microsoft Visual Studio** (Visual Basic, Visual C++, Visual C#)
- **Agilent VEE**
- **Mathworks Matlab**
- **Pickering Interfaces Switch Path Manager**

As well as various open source environments such as:

- **Sharp Develop**
- **Dev-C++**

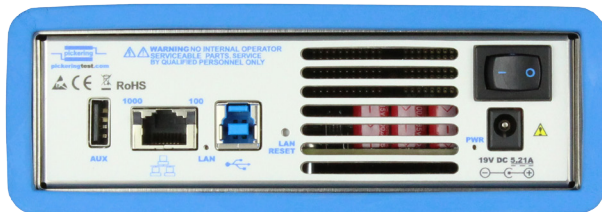
Power Supply

Input Voltage Range:	19V (DC)
Input Current Rating:	5.2A (DC)

Slot Capacity (Per Slot)

+3.3V	+5V	+12V	-12V
6A	6A	1A	1A

Note: Maximum power is 60W for all slots or 30W per slot.



The 60-104 USB/LXI Modular Chassis Front Panel

Cooling

Airflow:	Crossflow
Per-slot Cooling Capacity:	25W at 40°C ambient
Fans:	2 off 7.7 cfm fans

Acoustic Noise Emissions

With fans on maximum:	53dBA typical
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LAN Interface

Designed to comply with the LXI Standard Version 1.4	
Connector:	RJ45 Connector.
Connection Speed:	1000BaseT interface.

USB Interface

Designed to be compatible with USB3 (backwardly compatible with USB/USB2)	
Connector:	USB3 type B
Connection Speed:	400MBps

Width and Dimensions

Dimensions:	Width: 165mm (6.50") Height: 58mm (2.28") Depth: 308mm (12.13")
Weight:	1.3kg without PXI modules

Safety, CE & RoHS Compliance

All modules are fully CE compliant and meet applicable EU directives: Low-voltage safety EN61010-1:2001, EMC Immunity EN61000-6-1:2001, Emissions EN55011:1998. The 60-103B Chassis also complies with the European Restriction of Hazardous Substances directive (RoHS).

Product Order Codes

USB/LXI Modular Switching Chassis, 2-slot:	60-104-001
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Accessories

Replacement 19V DC power supply:	63-104-001
Optional Wi-Fi Dongle:	63-104-002

Latest Details

Please refer to our Web Site for Latest Product Details.
www.pickeringtest.com

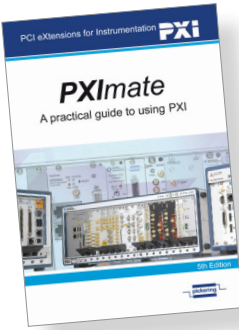
Operating/Storage Conditions

Operating Conditions (operating with specified airflow)

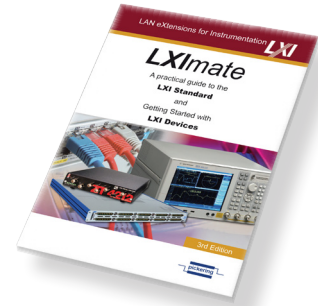
Operating Temperature:	0°C to +55°C
Humidity:	10% to 95% non-condensing

Storage and Transport Conditions

Storage Temperature:	-20°C to +70°C
Humidity:	10% to 90% non-condensing



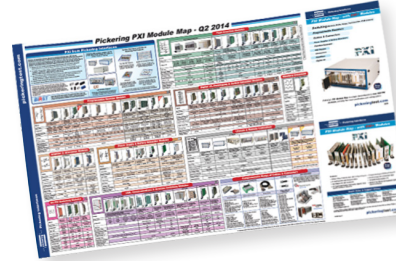
Ever wondered what PXI is all about? Pickering Interfaces' "PXImate" explains the basics of PXI and provides useful data for engineers working on switch based test systems. The PXImate is available free on request from the Pickering website.



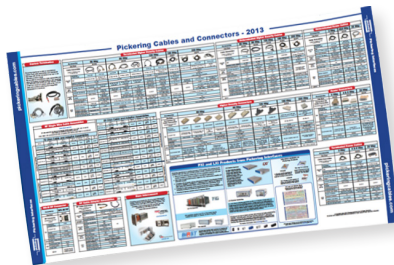
Pickering Interfaces has published a book, LXImate, which provides an easy to read overview of the LXI Standard. To order your free copy simply go to www.pickeringtest.com/lximate and request your copy.



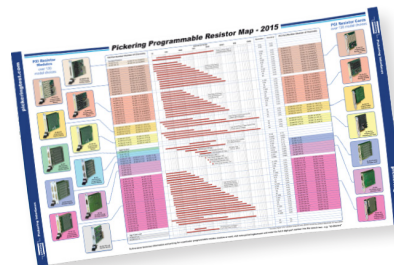
Please refer to the Pickering Interfaces "Connection Solutions" catalog for the full list of connector/cabling options, including drawings, photos and specifications. This is available in either print or as a download. Alternatively our web site has dynamically linked connector/cabling options, including pricing, for all Pickering modules.



The "PXI Module Map" - a simple fold-out selection guide to all Pickering's 1000+ PXI Modules.



The "Cables & Connectors Map" - outlines the cable and connector options available for all PXI Modules.



"Programmable Resistor Map" - A single sheet reference to our entire range of programmable resistors over 130 PXI modules and 120 PCI cards.



The 60-104 2-Slot USB/LXI Modular Chassis is Shipped With Everything You Need to Get Started.

The Package Includes: • 60-104 Chassis • Power Supply • USB3 Cable
• Ethernet Cable • Driver DVD • Optional Wi-Fi Dongle



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