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USER MANUAL

LXI COMPLIANT CHASSIS
(MODEL No. 60-100)



Issue D, August 2006

pickering

www.pickeringtest.com

ISO 9002
Reg No. FM38792

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SECTION 1 - INTRODUCTION

GENERAL

The 60-100 is a LXI compliant chassis controlled via a RJ45 Ethernet connector that provides a modular and configurable switching platform. The chassis can accept up to 7 off Pickering Interface's 3U PXI switching modules.

The 60-100 chassis does not accept third party products and is not designed for the support of instrument modules unless specifically indicated.

The chassis is supplied without the switching modules, they are purchased separately.

Each slot in the chassis is mechanically and electrically compliant with the PXI standard with the exception that power supply does not need to comply with the current capability and the chassis has no Slot 1 interface. Modules can be installed and removed form the chassis when the power is off, when power is restored the chassis will identify and report the modules installed to the LXI interface. The chassis can be powered on or off without taking any precautions to protect the system (client) controller or the 60-100 embedded controller.

In accordance with the LXI standard the chassis is supplied with a generic IVI compliant driver that is installed on the system controller.

The chassis is capable of supporting complex switching functions manufactured by Pickering Interfaces, permitting the user to have large matrices, multiplexers or uncommitted relays in a single chassis.



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SECTION 2 - SPECIFICATION

Specification

Chassis Backplane:	32/64 bit backplane, compliant with cPCI/PXI specification. Provides trigger, local bus support (subject to module support).
Chassis Capacity 60-100:	7 off 3U user slots available.

PXI Module compatibility

Support of PXI modules requires availability of the correct software driver. Chassis is supplied with drivers for all Pickering sysem 40 switching modules.

Switching Support:	All 3U Pickering Interface's PXI switching modules. Includes (but not limited to): All 4 slot 3U BRIC matrices, featuring up to 2208 crosspoints..
Instrument Support:	Programmable resistor and potentiometer cards.

For a selection guide on the range of modules available please see the LXI/PXI Module Selection Guide in the 60-100 LXI Modular Switching Chassis Short Form Catalog.

Power Supply

AC Input:	90 to 264V, 50/60Hz universal input, rear panel with on/off switch.
Cooling:	Side air intakes and rear exhaust. Air intake can be closed on either side to ensure cooling compatibility when mounted with other half rack devices. Uses adjustable speed low noise fans.

Monitoring

Front panel monitoring LEDs:

- Power
- Ready
- Error
- LAN
- Active

LAN Interface

Connector:	RJ45 Connector.
Connection Speed:	100baseT interface.

Designed to comply with the LXI Standard Version 1.0 Class C

Supporting Documentation

Manuals, drivers and a copy of this data sheet are accessible through any browser compliant with W3C standards.

Width and Dimensions

Dimensions:	H: 179mm W: 246mm D: 321mm 4U rack mountable
Weight:	4kg (without PXI modules)

Safety & CE Compliance

All systems/modules meet applicable EU directives. Low-voltage safety EN 61010-1:1993. EMC Immunity EN 50082-1:1992, Emissions EN 55011:1991. For full safety, compliance and environmental specifications refer to Operating Manual.

Product Order Codes

LXI Chassis, 7-Slot	**60-100-001**

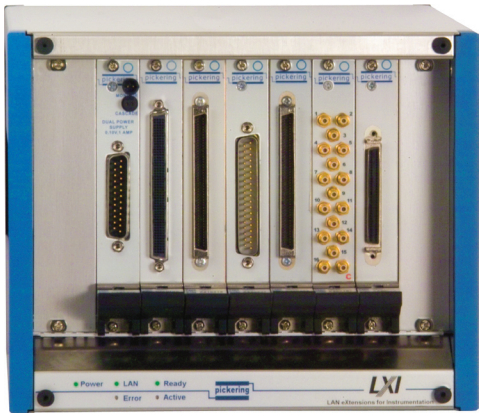
Mating Connectors & Cabling

Please refer to the Pickering Interfaces "**Interconnection Solutions**" catalog for a full list of connector/cabling options, including drawings, photos and specifications. This is available in either print or as a download.

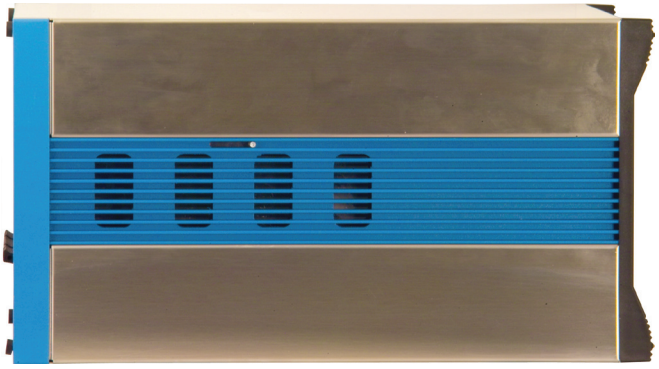
Alternatively our web site has dynamically linked connector/cabling options, including pricing, for all Pickering modules.

Latest Details

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



60-100 LXI Chassis Front View



60-100 LXI Chassis Side View. The side air vents can be closed by a simple slide arrangement to ensure it does not take air from an adjacent device in a rack

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SECTION 3 - INSTALLATION

INSTALLING THE LXI CHASSIS

Site Considerations

The 60-100 is designed to operate on a bench or in an instrument rack. It is supplied with rubber feet fitted for bench top operation but if you want to use your 60-100 in a rack, the feet may have to be removed and rack mounting flanges fitted.

Apertures in the rear and along both sides of the chassis facilitate power supply and module cooling, air enters through fan inlets located in both sides of the chassis and exits through the rear. The chassis is fitted with variable speed fans

Cooling Considerations

If the chassis is placed above an instrument that vents hot air from its top cover then a mechanical separation should be used to prevent the lower device heating the 60-100.

Side and rear air exhausts should be kept clear of obstructions. If the chassis is mounted alongside another half rack device in a rack, then the side air vent adjacent to that device can be blocked off by operating a slider. This will prevent the 60-100 from taking in warm air from the adjacent device.

Ensure that all unused slots in the chassis have filler panels installed, to ensure the correct internal air flow.

The 60-100 uses two fans to cool the PXI modules, the controller and the power supply in the rear of the chassis. The fans can be set to one of three speeds. For office and laboratory use it is recommended that the medium speed setting is used. For use in a rack where higher temperatures may be experienced and fan noise is less of an issue, the speed can be set to high. To change the fan speed the rear cover should be removed an the fan speed controller board is located at the bottom left. Fan speed is set by moving jumpers as shown on the legend for each of the fans. The slow fan speed is not recommended.

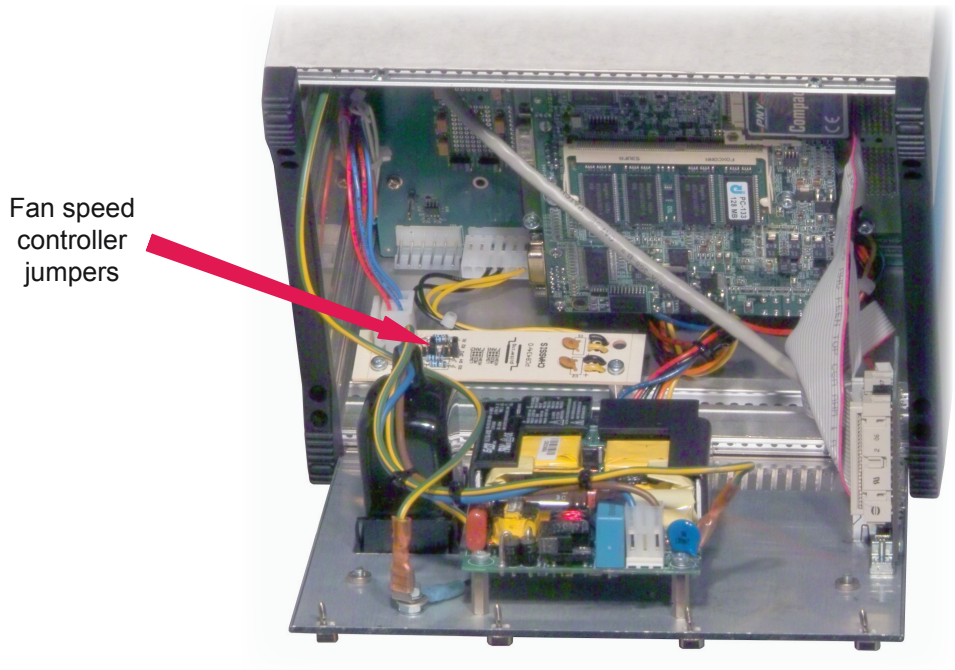


Figure 3.1 - Location of the Fan Speed Controller Board in the rear of the 60-100 LXI Chassis

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Connecting Safety Ground

WARNING

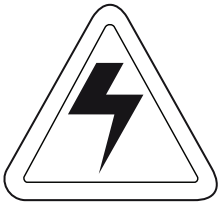
THE 60-100 CHASSIS IS DESIGNED WITH A THREE-POSITION IEC CONNECTOR THAT CONNECTS THEGROUND LINE TO THE CHASSIS GROUND. TO MINIMIZE SHOCK HAZARD, MAKE SURE YOUR ELECTRICAL POWER OUTLET HAS AN APPROPRIATE EARTH SAFETY GROUND THAT IS CONNECTED WHENEVER YOU POWER UP THE CHASSIS.

IF YOUR POWER OUTLET DOES NOT HAVE AN APPROPRIATE GROUND CONNECTION, YOU MUST CONNECT THE FACTO RY WIRE SAFETY GROUND TO THE CHASSIS. TO CONNECT THE SAFETY GROUND, COMPLETE THE FOLLOWING STEPS:

1. Connect a 16 AWG (1.3 mm) wire to a chassis grounding screw using a toothed grounding lug. The wire must have green insulation with a yellow stripe or must be non-insulated (bare).

2. Attach the opposite end of the wire to permanent earth ground using toothed washers or a toothed lug.

INSTALLING PXI MODULES



WARNING - DANGER OF ELECTRIC SHOCK
BEFORE REMOVING A MODULE FROM THE CHASSIS ENSURE THAT ALL CONNECTIONS TO THE MODULE ARE REMOVED

CAUTION



Electrostatic discharge can damage the components on the module. To avoid such damage in handling the board, touch the anti-static bag to a metal part of the chassis before removing the board from the bag.

Ensure that there will be adequate ventilation for the module when fitted into the chassis.

The module should be installed in accordance with the following procedure:

1. Ensure that the system is turned OFF but still connected to mains so that it remains grounded.

2. Choose an appropriate slot in the rack.

3. Remove the blanking plate for the chosen slot.

4. Ensure that the injector/ejector handle is in its downward position. Align the module with the module guides on the top and bottom of the slot.

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CAUTION

Do not raise the injector/ejector handle whilst inserting the module. The module will not insert properly unless the handle is in its downward position.

5. Hold the handle whilst slowly sliding the module into the module guides until the handle catches on the injector/ejector rail (refer to Figure 3.1).

6. Raise the injector/ejector handle until the module firmly seats into the backplane. The front panel of the module should be flush with the front panel of the chassis.

7. Screw the front panel of the module to the front panel mounting rail.

8. Power up the chassis and wait for the green Ready light

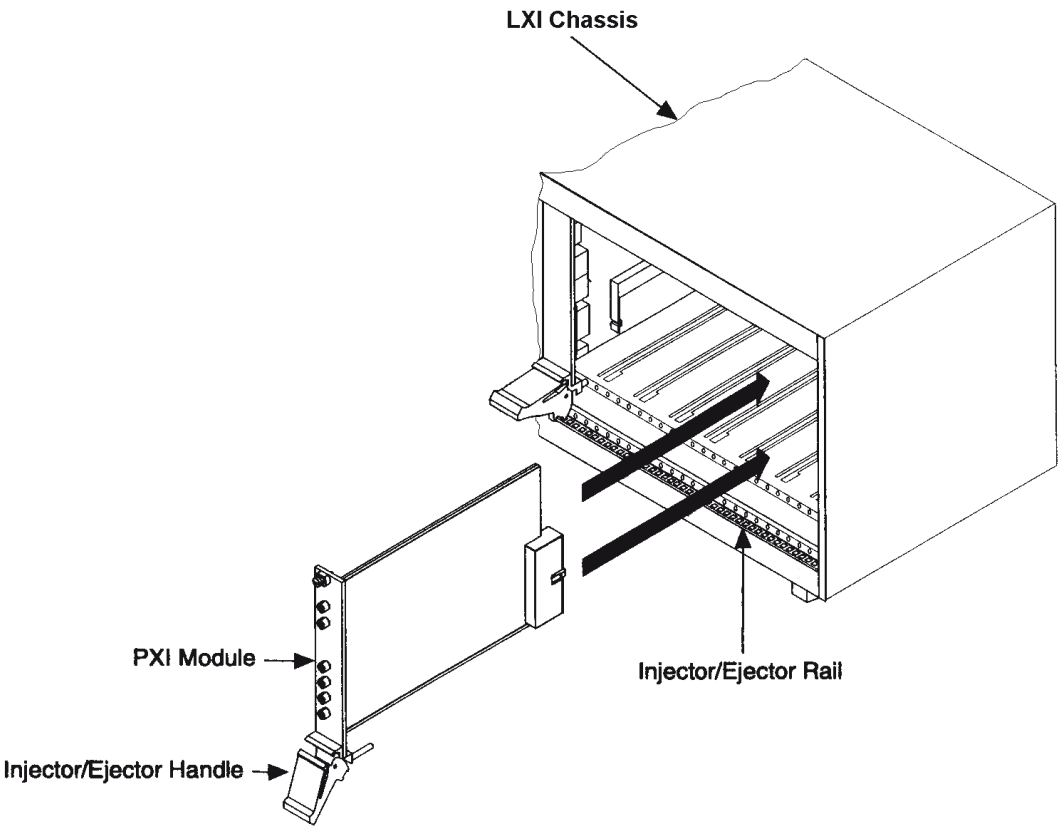


Figure 3.2 - Installing a module into the LXI Chassis

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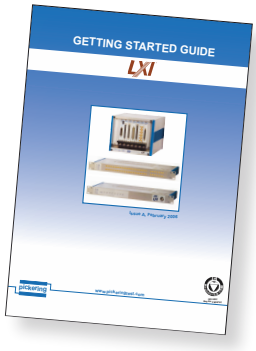
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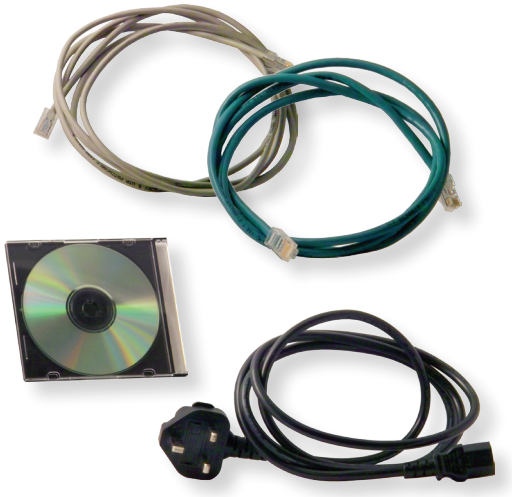
SECTION 4 - CONFIGURATION & SETUP

HARDWARE SETUP

Before you begin, take a moment to check your box contents to ensure you have the necessary components present. Contact your local sales office if you find that any part or component is missing.







Your box will contain:

1) A 60-100 LXI Chassis

2) The document entitled ‘Getting started with your LXI device’.

3) Two 2 metre ethernet patch leads:
One labelled ‘crossover’ and the other ‘straight-through’

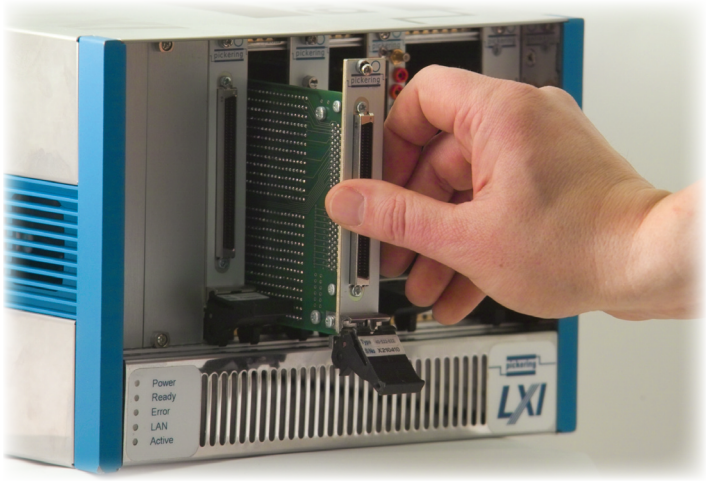
4) A power lead for your territory

5) A driver CD

You may also have a number of additional cards. Check your shipping invoice for details.

Remove your 60-100 chassis from its protective packaging.

Insert your option cards into it now. You may need to remove blanking panels to fit your cards. Retain these panels, as the chassis will not be cooled correctly with a card removed if these are not fitted.



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If you are using an ethernet hub or switch, use the Ethernet cable marked ‘straight-through’. Connect one end to the socket on the back of your 60-100 chassis, and the other to a free socket on your hub or switch. If you are connecting directly from your computer to the LXI device, use the Ethernet lead marked ‘crossover’.

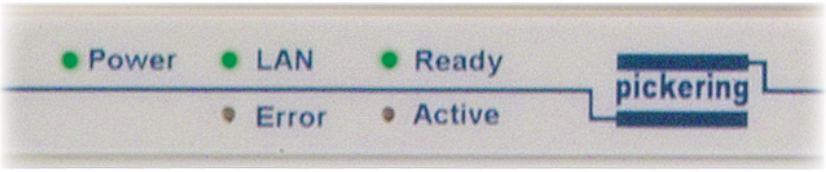




Insert the power lead into the socket on the back of your chassis and plug the other end into a mains electricity socket. You can now power up the device using the switch on the rear panel next to the mains inlet.



Your chassis will now start going through its boot up procedure which can take up to twenty seconds to complete. A green ready light should illuminate along with the LAN and power light if everything has worked correctly. If not check your Ethernet connection. If you have an error light proceed to the troubleshooting section of this manual for further assistance.

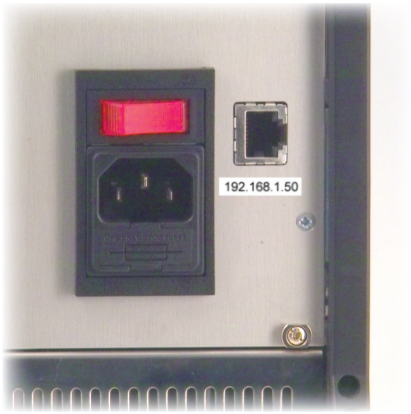


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CONNECTING THE 60-100 CHASSIS

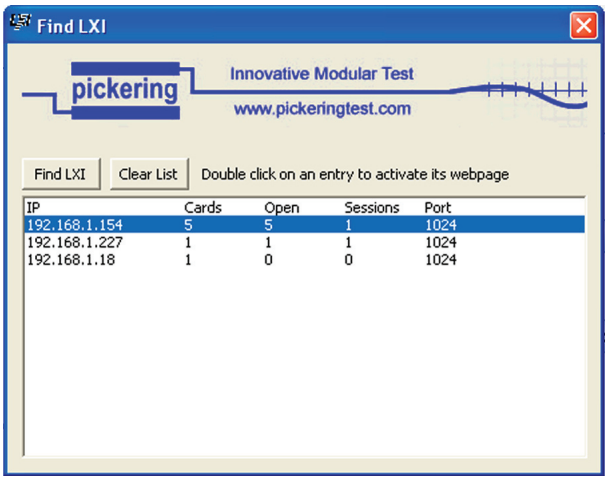
Control of the 60-100 chassis is through a web server at the devices IP address. From the web server the user can also access drivers, utility programs and documentation. So, it is important to first establish the IP address that your chassis is using.

By default, Pickering LXI devices are configured using DHCP to acquire a TCP/IP address. By matching the MAC address listed on the rear of the unit, with the lease log on your DHCP server, you can determine your LXI chassis address and proceed to configuring your LXI devices settings.



If you do not have a DHCP server, you must ensure that your computer is set to use Auto-IP as its TCP/IP configuration method. This is the default fallback condition under Windows XP if you set your computer for DHCP and it cannot locate a server.

You can then establish your LXI chassis TCP/IP address using one of the three following methods:



1) Using the Pickering Discovery tools located on the CD included in your box. These tools can tell you the TCP/IP address your chassis is using.

lxifind – a simple Windows application which will list all Pickering LXI devices. The home page of an LXI device is displayed when the corresponding IP address is double-clicked.

LXI Discovery Tool - a more capable application (requires .NET framework 2.0)

NOTE: These tools only work if there are Pickering PXI cards fitted into the chassis. If no cards are present then use one of the following utilities:

2) VXI-11 Discovery protocol.

Some tools, for example Agilent IO Library, provide a VXI-11 protocol discovery tool. This may be used to establish the address of any connected LXI compliant device.
A VXI-11 Discovery browser is supplied on the distribution CD and may be used to locate any LXI device, Pickering or otherwise.

3) Bonjour or Rendezvous discovery protocol

By default, Pickering LXI devices have the Bonjour or Rendezvous service switched on, by using a suitable Bonjour client on your computer, you can search for and configure an LXI device without knowing its TCP/IP address beforehand. Use the MAC address on the rear of the device and that present on the LXI devices homepage to confirm you are configuring the correct device if you have more than one LXI device running.
A Rendezvous browser is shipped on the CD.

All the discovery tools are located on the Pickering distribution CD in the LXI Products/Tools directory.

Once you have a valid IP address, you can move on to configuring your LXI chassis settings

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CONFIGURING THE 60-100 CHASSIS SETTINGS

As you now know your devices TCP/IP address, you can proceed to configure the chassis to your requirements.

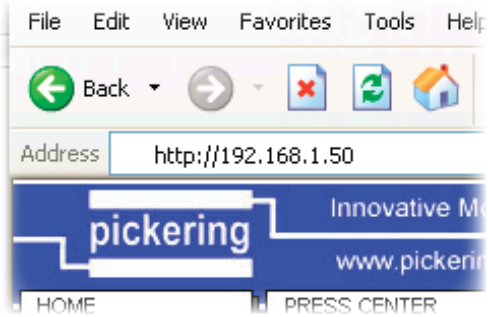
Type your devices IP address into the address bar of your web browser in this format:

http://<IPNUM>

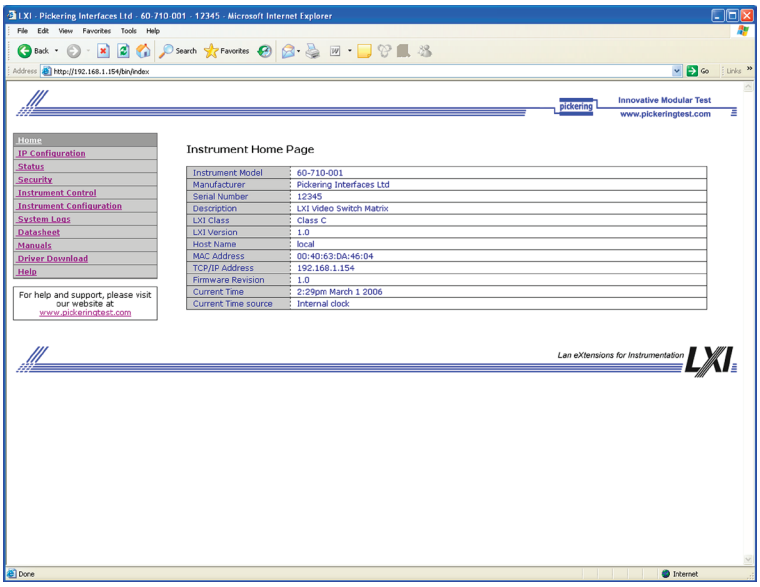
Replacing <IPNUM> with the address your LXI chassis is currently using.

I.e. if your LXI chassis has been issued an address of 192.168.1.50, then type the following into your browser address bar:

http://192.168.1.50



You will now be presented with your LXI chassis embedded homepage. This page lists the devices settings, LXI class and model number. Use the MAC address listed on this page and that on the rear of your chassis to confirm you are configuring the correct device if you have more than one.



Clicking on IP Config will take you through to the main configuration screen for your chassis. It is here that you can set the method the chassis uses for acquiring a TCP/IP address.

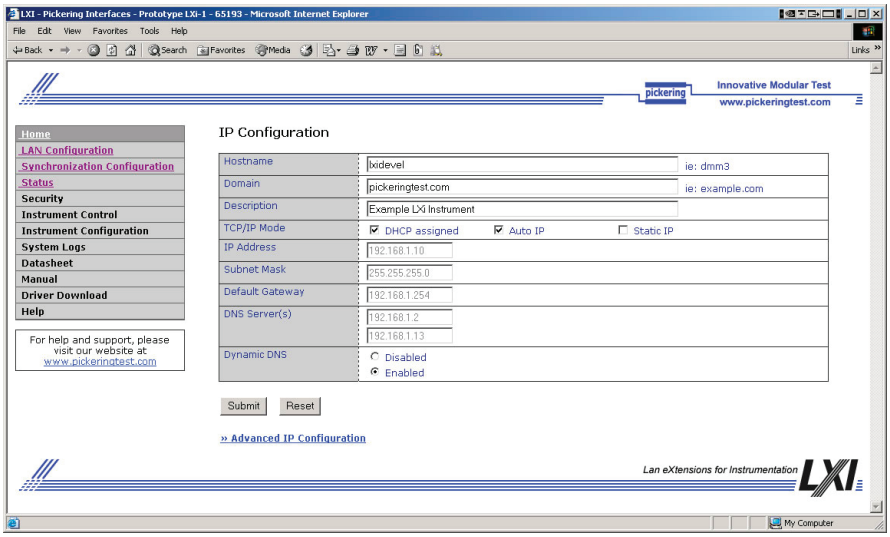
There are three main ways of configuring your LXI chassis TCP/IP address:

1) DHCP, a server issues IP addresses from a pool and ensures that no two devices can have the same IP address.

2) Where no DHCP server exists, Auto-IP negotiates with other devices to choose an IP address that does not conflict. This is the default condition a Windows based computer reverts to if it is configured for DHCP but there is no DHCP server present.

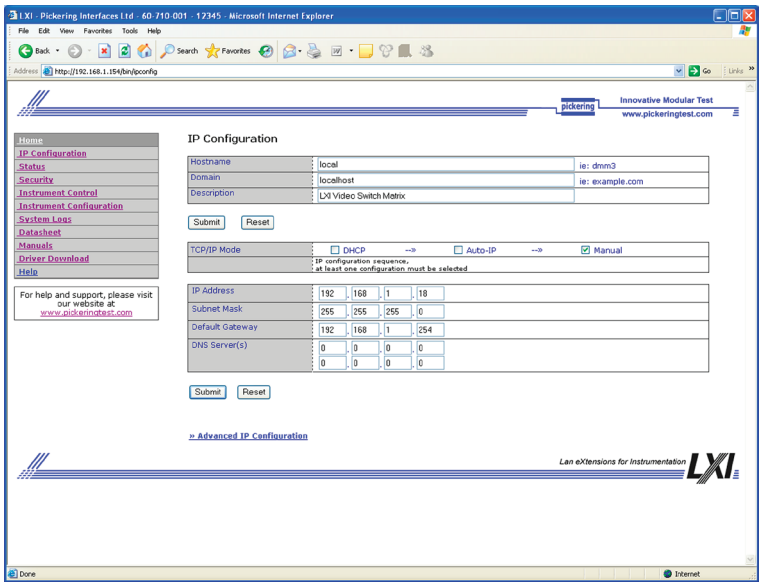
3) Static IP, address settings are manually entered and care must be taken to ensure that the settings chosen do not conflict with other devices present on the network.

4) Contact your network administrator if you are unsure as what these settings should be.



More than one addressing scheme may be enabled if required. By default Pickering LXI devices ship with DHCP and Auto-IP enabled. If the LXI chassis fails to acquire a TCP/IP address by using DHCP, it reverts to using Auto-IP. This fail over process is designed to ensure you can still communicate with your chassis in the event of a server failure.

Note that at least one configuration method must be enabled at all times.



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SECTION 5 - PROGRAMMING

The Pickering drivers for the LXI chassis may be installed from the Configuration pages of the LXI device's web server. Open a web browser on the IP address of the chassis and select the 'Driver Download' option from the menu. This will install the required drivers to your hard disk. The installation is also available on the distribution CD supplied with the chassis or from the Pickering web site at: www.pickeringtest.com.

Pickerings LXI products offer an IVI compliant driver and a Pickering specific, low level driver.

IVI Driver pi60iv.dll

The IVI driver can be cumbersome and heavyweight. It is cumbersome because it has very limited means of controlling a switching function, the methods are slow and in many cases require the user to undo a previous path setting before creating a new path. It is heavyweight because it requires the prior installation of other software such as VISA or an IVI Engine, which in some cases may require the payment of a license fee to a third party.

Direct I/O Driver piplx.dll

So, Pickering offer an LXI version of its direct I/O driver. This driver requires no prior installation of any other library such as VISA and provides the richest set of commands, specifically designed for the control of Pickering switch cards. The software is entirely the property of Pickering and requires no third party licenceable products to be installed.

Instructions on the use of these drivers is too detailed for this document and can be found in separate manuals.

After driver installation, on-line help for the direct I/O driver may be found in the directory **c:/Pickering**

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SECTION 6 - GENERAL DESCRIPTION

MECHANICAL DESCRIPTION

The 60-100 LXI Chassis comprises the following:

- Half width rack mountable chassis also suitable for desk top operation
- 7 slot PXI/cPCI compatible backplane
- Microcontroller assembly for providing the interface between the backplane and the Ethernet port
- Power supply assemble for providing power for the Microcontroller, backplane and periperal cards.
- Front panel mounted status LEDs.
- Rear panel mounted RJ45 100baseT LAN connection for LXI control of the module over Ethernet.
- Rear panel mounted IEC plug for connection to the mains supply.



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FUNCTIONAL DESCRIPTION

The 60-100 LXI Chassis is capable of supporting a wide range of PXI switching cards in a self-contained unit, the only connections required are power and an Ethernet lead. The chassis consists of a 7-slot PXI/compactPCI compatible backplane and an embedded processor assembly with power being supplied from an internal mains power unit. Control and programming information for the PXI modules installed in the chassis is sent to the backplane via a PCI bridge device. Programming information for the processor is sent to the chassis via the LAN interface from a remote computer using the chassis unique Ethernet address. Programming documentation for the chassis as well as data for Pickering's LXI compatible switching products is stored in the embedded processor and can be dowloaded over the LAN interface. Status LEDs on the front of the chassis indicate condition of the chassis and the LAN connection.

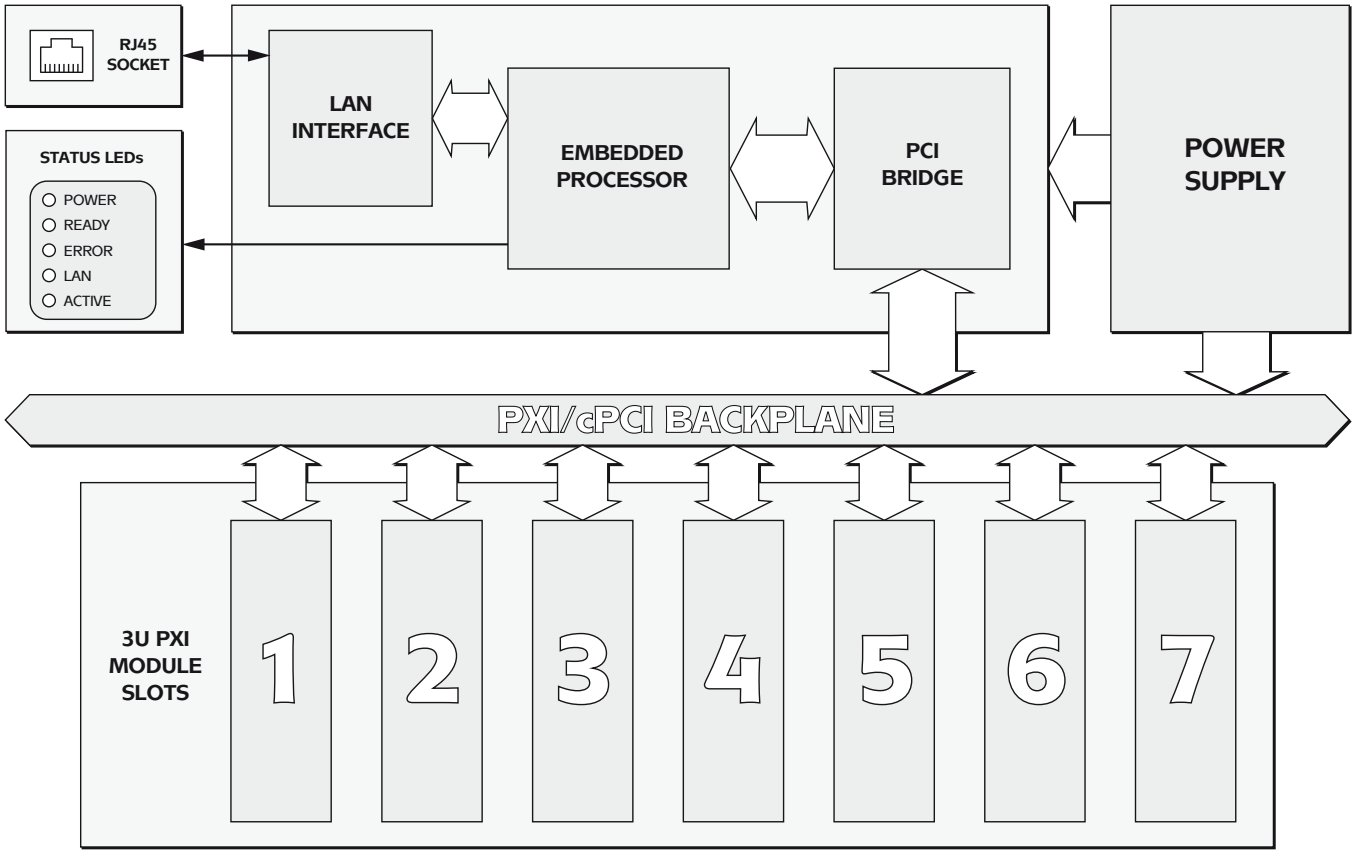


Figure 6.1 - Block Diagram for the 60-100 Seven Slot LXI Chassis

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SECTION 7 - TROUBLESHOOTING

Q I have a Power light and a Ready light, but the LAN light just flashes.

A You have an IP conflict. That is another device on your network has the same TCP/IP address as your LXI chassis. Remove the conflict or change the IP address of your LXI chassis.

Q The LAN light does not light up at all.

A There is a cabling fault. Check your Ethernet lead is of the correct type and is plugged into a working hub or switch. Most hubs and switches have a link indicator to show when the connection is correct.

Q I have a red Error light, but the Ready and Power lights are on.

A Most likely cause is that peripheral cards have not been installed in the chassis. Power down the LXI chassis and install some cards.

Q I have only a red Error and Power light on.

A There is a hardware fault with your chassis, contact your local sales office.

Q How do I know when I can begin communicating with my chassis?

A The LXI chassis has a Ready and Active light that indicate its current activity. Whenever the Active light is illuminated, the system is busy and may not be able to process other commands. This will normally occur when a TCP/IP configuration change has occurred.

Q My LXI chassis lights are all on, or flash wildly.

A The system is booting up, these sequences are used to monitor the LXI chassis boot progress as an aid to fault finding. Until the chassis Ready light is illuminated green, you should not attempt to communicate with the chassis.

Q All of my chassis lights are on, and I never see a green Ready light even after a few minutes.

A Your chassis has a fault, contact your local sales office.

Please contact your local Pickering Interfaces sales office for any further support or email:

Lxisupport@pickeringtest.com

You can also visit our website for product updates, help and downloadable materials at:

http://www.pickeringtest.com

CHASSIS RESET

If the chassis is misbehaving the user should try resetting using the rear panel recessed button to see if this effects a cure.

Momentary operation of the button causes a reset of the chassis, this is similar in effect to cycling the power to the unit.

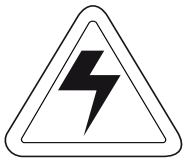
Holding the button depressed for a period of about 5 seconds causes the chassis to be set back to factory default conditions. This will destroy any user configuration data already entered.

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SECTION 8 - WARNINGS & CAUTIONS



WARNING - DANGER OF ELECTRIC SHOCK

THIS CHASSIS CONTAINS HAZARDOUS VOLTAGES. BEFORE REMOVING THE OUTER COVERS REMOVE ALL SUPPLIES.



CAUTION
Handling of Electrostatic-Sensitive Semiconductor Devices

Certain semiconductor devices used in the equipment are liable to damage due to static voltage. Observe the following precautions when handling these devices in their unterminated state, or sub-units containing these devices:

(1) Persons removing sub-units from an equipment using these devices must be earthed by a wrist strap and a resistor at the point provided on the equipment.

(2) Soldering irons used during the repair operations must be low voltage types with earthed tips and isolated from the mains voltage by a double insulated transformer.

(3) Outer clothing worn must be unable to generate static charges.

(4) Printed Circuit Boards (PCBs) fitted with these devices must be stored and transported in anti-static bags.

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