



XPRESS-I/O



XPress-I/O Quick Start Guide



XPRESS-I/O

XPRESS-I/O **QUICK START GUIDE CONTENTS**

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The XPress-I/O industrial automation device server provides a quick and easy method to network-enable multiple industrial automation devices and equipment. Multiple serial ports, digital I/O's and a relay enable real-time access for remote configuring, programming, monitoring, and control of PLCs, motor drives, process controls, power monitoring equipment, barcode scanners, or virtually any RS232, RS422, or RS485 factory floor device.

WHAT'S IN THE BOX

In addition to the XPress-I/O, the box contains the following items:

PART #	COMPONENT DESCRIPTION
CD-XPIO-01	CD-ROM containing the User Guide, software utilities, Quick Start Guide and tutorial
500-172-R	DB9F to 3.5 mm, 7-Position Screw Terminal Plug, RoHS

PINOUTS

Serial Connectors

Serial 1 Pinouts

Pin #	Pin Name	Description
1	DSR1	In
2	CTS1	In
3	RXD1	In
4	GND	Ground
5	TXD1	Out
6	RTS1	Out
7	DTR1	Out

PINOUTS CONTINUED

Serial 2 Pinouts

Pin #	Pin Name	Description
1	TX2+ / (+)	4-Wire: TX2+; Output from XPress-I/O 2-Wire: (+)
2	TX2- / (-)	4-Wire: TX2-; Output from XPress-I/O 2-Wire: (-)
3	GND	Ground
4	RX2+ / DNU	4-Wire: RX2+; Input to XPress-I/O 2-Wire: Do not use, leave open
5	RX2- / DNU	4-Wire: RX2-; Input to XPress-I/O 2-Wire: Do not use, leave open

Terminal Block Power Connector

The front of the XPress-I/O has a terminal block screw connector for attaching to an appropriate power source, such as those used in automation and manufacturing industries. The terminal block connector supports a power range from 9 to 30 VDC or 9 to 24 VAC.

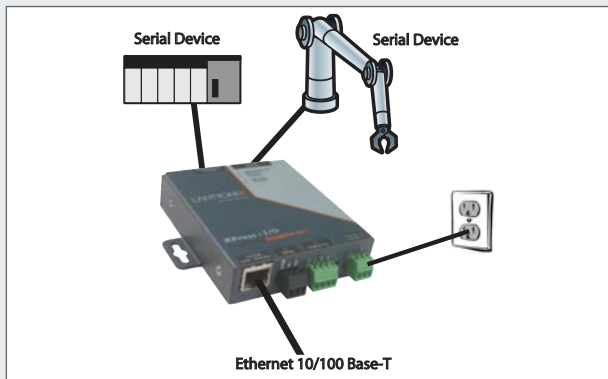
Power Input Port Pin Assignments

Pin #	Pin Name	Description
1	PWRIN+	Power Input, positive contact
2	PWRIN-	Power Input, negative contact
3	GND	Earth Ground

QUICK CONNECT

Complete the following steps in order.

1. Connect a serial device to your unit.
2. Connect an Ethernet cable to the RJ45 port.
3. Supply power to your unit
4. Supply power to the serial device.



IP ADDRESSING

Your unit must have a unique IP address on your network. The IP address can be assigned automatically, or you can assign it manually.

DHCP

Many networks use an automatic method of assigning an IP address called DHCP. If you are unsure whether your network uses DHCP, check with your systems administrator.

The XPress-I/O looks for a DHCP server when it first powers up. You can use the DeviceInstaller graphical user interface to search the network for the IP your unit has been assigned by the DHCP server. If the XPress-I/O does not acquire an IP, or you do not use DHCP, you must assign a fixed IP address using the serial port of the XPress-I/O.

FIXED IP ADDRESS

In most installations, a fixed IP address is desirable. The systems administrator generally provides the IP address.

The IP address must be within a valid range, unique to your network, and in the same subnet as your PC. You will need the following information before you set up the unit as described in this Quick Start Guide.

IP Address: _____
 Subnet Mask: _____
 Gateway: _____

The following section describes assigning an IP address using DeviceInstaller.

Note: For detailed instructions on assigning the IP address using the serial port, please see the User Guide or the XPress-I/O Video Tutorial on the CD or the Lantronix web site.

QUICK SETUP USING DEVICEINSTALLER GUI

Step 1: Install DeviceInstaller

To use the DeviceInstaller utility, first install it from the product CD.

1. Insert the product CD into your CD-ROM drive.
2. If the CD does not launch automatically:
 - a) Click the **Start** button on the Task Bar and select **Run**.
 - b) Enter your CD drive letter, colon, backslash, **Launch.exe** (e.g., **D:\Launch.exe**).
3. Click the **DeviceInstaller** button.
4. Respond to the installation wizard prompts.
(When prompted to select an installation type, select **Typical**.)


Note: For more information about DeviceInstaller, see the DeviceInstaller online Help.


Step 2: Configure Network Settings

To assign an IP address manually:

1. Click **Start** → **Programs** → **Lantronix** → **DeviceInstaller** → **DeviceInstaller**.
If your PC has more than one network adapter, a message displays. Select an adapter and click **OK**.

USING DEVICEINSTALLER GUI CONTINUED...

Note: If the unit already has an IP address (e.g., DHCP has assigned an IP address), click the **Search**  icon and select the unit from the list of Lantronix device servers on the local network.

2. Click the **Assign IP** icon .
3. If prompted, enter the hardware address (on the product label) and click **Next**.

Device Identification

Enter the hardware address of the device. This is typically printed on the back panel of the device in the form "12-34-56-78-9A-BC".

00-20-4a-41-13-D9

4. Select **Assign a specific IP** address and click **Next**.
5. Enter the **IP address**. The **Subnet mask** displays automatically based on the IP address; if desired, you may change it. On a local network, you can leave the **Default gateway** blank (all zeros). Click **Next**.

USING DEVICEINSTALLER GUI CONTINUED...

IP Settings


Please fill in the IP address, subnet, and gateway to assign the device. The subnet will be filled in automatically as you type, but please verify it for accuracy. Incorrect values in any of the below fields can make it impossible for your device to communicate, and can cause network disruption.

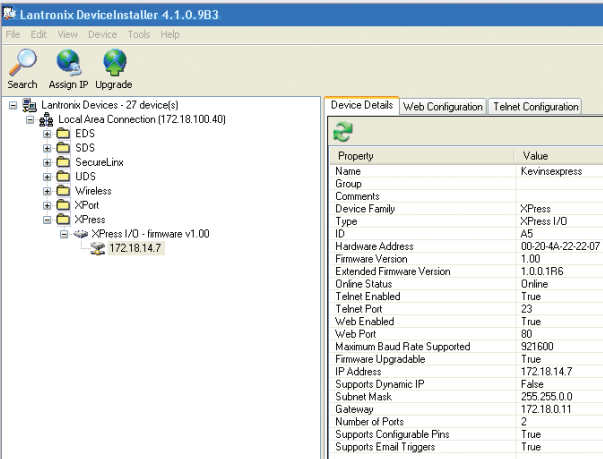
IP address:	<input type="text" value="172.18.27.125"/>
Subnet mask:	<input type="text" value="255.255.0.0"/>
Default gateway	<input type="text" value="172.19.0.11"/>

- Click the **Assign** button and wait several seconds until a confirmation message displays. Click **Finish**.
- Click the **Close** button to close the dialog box and return to the main window.

USING DEVICEINSTALLER GUI CONTINUED...

Step 3: Add the Unit to the Device List

Now add the unit to the list of similar Lantronix devices on the network so that you can manage and configure it. To perform this step, click the **Search** icon . DeviceInstaller locates the unit and adds it to the list. To view the current configuration, double-click the unit in the list.



Property	Value
Name	Kevinsexpress
Group	
Comments	
Device Family	XPress
Type	XPress I/O
ID	A5
Hardware Address	00:20:4A:22:22:07
Firmware Version	1.00
Extended Firmware Version	1.0.0.1R6
Online Status	Online
Telnet Enabled	True
Telnet Port	23
Web Enabled	True
Web Port	80
Maximum Baud Rate Supported	921600
Firmware Upgradable	True
IP Address	172.18.14.7
Supports Dynamic IP	False
Subnet Mask	255.255.0.0
Gateway	172.18.0.11
Number of Ports	2
Supports Configurable Pins	True
Supports Email Triggers	True

USING DEVICEINSTALLER GUI CONTINUED

Step 4: Complete the Configuration

Once the unit is in the device list, you can complete the configuration:

- To use a web interface (Web Manager), double-click the unit in the list and click the **Web Configuration** tab. See *Configuration Using Web Manager* below.
- To use Setup Mode (a command line interface), double-click the unit in the list and click the **Telnet Configuration** tab.

Note: Please see your product's User Guide for detailed instructions on configuration.

CONFIGURATION USING WEB MANAGER

In this Quick Start Guide, we briefly describe how to configure the XPress-I/O using Web Manager, Lantronix's browser-based configuration tool. For detailed information on Web Manager configuration and on other methods, please see User Guide for your product.

1. Do one of the following:
 - Using DeviceInstaller, select the unit, select the **Web Configuration** tab, and click **Go**.
 - Open a web browser and enter the IP address of the XPress-I/O to open Web Manager.
2. Enter your User Name (default is **admin**) and Password (default is **PASS**). The XPress-I/O Web Manager window displays.

CONFIGURATION CONTINUED

LANTRONIX® XPress-I/O Powered by Evolution OS

Status

Network

Line

Tunnel

CPM

DNS

Modbus

SNMP

FTP

TFTP

Syslog

HTTP

RSS

CLI

Email

SSH

SSL

XML

Filesystem

Protocol Stack

IP Address Filter

Query Port

Diagnostics

System

Device Status

Product Information	
Product Type:	Lantronix XPress I/O
Firmware Version:	1.0.0.1R6
Build Date:	Dec 13 2006 (18:31:27)
Serial Number:	
Uptime:	0 days 03:30:16
Permanent Config:	Saved

Network Settings	
Ethernet:	Auto 10/100 Mbps Auto Half/Full (100 Mbps Half)
MAC Address:	00:20:4a:22:22:09
Host:	
IP Address:	172.19.100.45 / 255.255.0.0 (DHCP)
Default Gateway:	172.19.0.1 (DHCP)
Domain:	
Primary DNS:	172.19.213.2 (DHCP)
Secondary DNS:	67.134.130.200 (DHCP)

Line Settings	
Line 1:	RS232, 115200, N, 8, 1, Hardware
Line 2:	RS485 Full, 9600, N, B, 1, Software

Tunneling	Connect Mode	Accept Mode
Tunnel 1:	Active	Waiting
Tunnel 2:	Disabled	Disabled

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2. Use the menu to navigate to sub pages where you can configure the XPress-I/O.

LEDS

The XPress-I/O has the following LEDs:

Ethernet Port LEDs

LEDS	DESCRIPTIONS
Left – Green ON	Link Established – 100BASE-T
Left – Amber ON	Link Established – 10BASE-T
Right – Green ON	Full Duplex (Blinking = Activity)
Right –Amber ON	Half Duplex (Blinking = Activity)

LEDs On Top Cover

LEDS	DESCRIPTIONS
Power/Diagnostic - Blue	Power Indicator and Diagnostic
RX Serial 1 - Green	Serial 1 Received Data Activity
TX Serial 1 - Amber	Serial 1 Transmitted Data Activity
RX Serial 2 - Green	Serial 2 Received Data Activity
TX Serial 2 - Amber	Serial 2 Transmitted Data Activity

CONTACT

For questions and technical support, please check our online knowledge base at www.lantronix.com/support

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