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LANTRONIX®





EDS1100/2100

EDS1100/2100
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Quick Start Guide

EDS1100/2100

The EDS products allow serial devices to connect and communicate over an Ethernet network. This Quick Start Guide will step you through hardware installation and initial configuration of your EDS1100 or EDS2100.

WHAT'S IN THE BOX

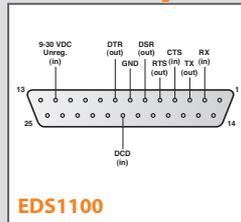
In addition to the EDS1100 or EDS2100, the box contains the following items:

EDS1100 PART #	COMPONENT DESCRIPTION
500-163-R	DB25M to DB9F serial cable
520-090-R	Power Cube, 100-240VAC, with international adapters Power Cord Restraint

EDS2100 PART #	COMPONENT DESCRIPTION
500-164-R	DB9F to DB9F serial cable
520-090-R	Power Cube, 100-240VAC, with international adapters Power Cord Restraint

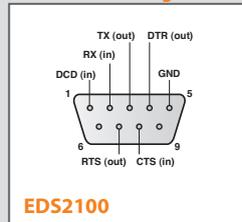
PINOUTS

RS-232 Pin Assignment



EDS1100

RS-232 Pin Assignment



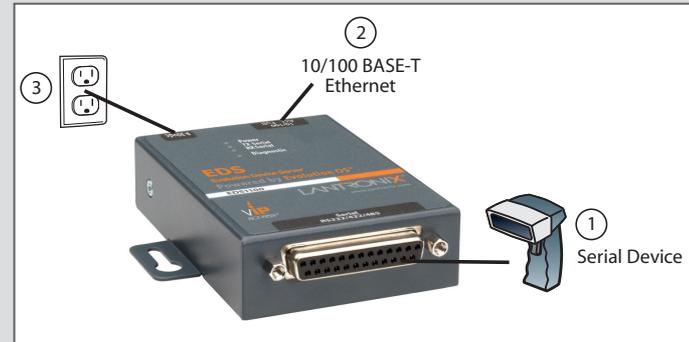
EDS2100

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QUICK CONNECT

Complete the following steps in order. Refer to the numbers in the figure below.

1. Connect a serial device to your unit.
2. Connect an Ethernet cable to the RJ45 port of the unit.
3. Supply power to your unit using the power cord that was included in the packaging.
4. Supply power to the serial device.



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

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 EDS Video Tutorial on the Lantronix web site.



QUICK SETUP USING THE DEVICEINSTALLER UTILITY

Step 1: Install DeviceInstaller

To use the DeviceInstaller utility, first install it from the downloads page on the Lantronix web site

1. Download the latest version of DeviceInstaller from <http://www.lantronix.com/downloads>.
2. Run the executable to start the installation process.
3. 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 THE DEVICE INSTALLER UTILITY 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".

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 THE DEVICE INSTALLER UTILITY 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="172.19.205.52"/>
Subnet mask:	<input type="text" value="255.255.0.0"/>
Default gateway	<input type="text" value="0.0.0.0"/>

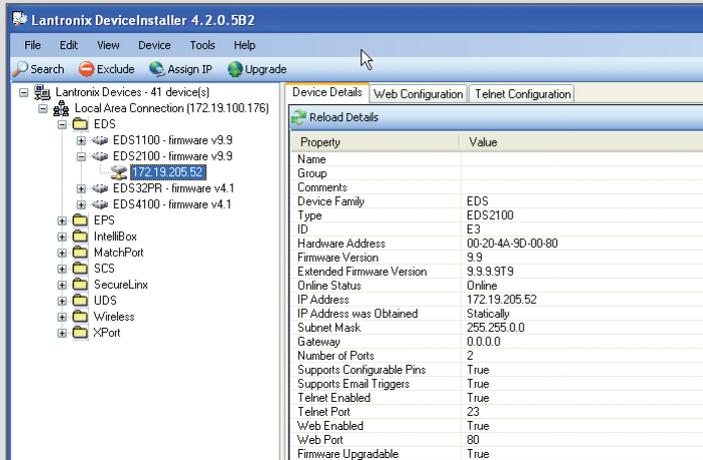
6. Click the **Assign** button and wait several seconds until a confirmation message displays. Click **Finish**.
7. Click the **Close** button to close the dialog box and return to the main window.

USING THE DEVICEINSTALLER UTILITY 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.



The screenshot shows the Lantronix DeviceInstaller 4.2.0.582 interface. On the left, a tree view displays a list of devices under 'Local Area Connection (172.19.100.176)'. The selected device is '172.19.205.52'. On the right, the 'Device Details' tab is active, showing a table of properties and values for the selected device.

Property	Value
Name	
Group	
Comments	
Device Family	EDS
Type	EDS2100
ID	E3
Hardware Address	00-20-4A-9D-00-80
Firmware Version	3.9
Extended Firmware Version	3.9.9.9T3
Online Status	Online
IP Address	172.19.205.52
IP Address was Obtained	Statically
Subnet Mask	255.255.0.0
Gateway	0.0.0.0
Number of Ports	2
Supports Configurable Pins	True
Supports Email Triggers	True
Telnet Enabled	True
Telnet Port	23
Web Enabled	True
Web Port	80
Firmware Upgradable	True

USING THE DEVICEINSTALLER UTILITY 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 on page 10.
- To use 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 and Command Reference for detailed instructions on configuration.

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CONFIGURATION USING WEB MANAGER

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

1. Perform one of the following steps:
 - Using DeviceInstaller, select the unit, select the **Web Configuration** tab, and click **Go**.
 - Open a web browser and enter the IP address of the EDS to open Web Manager.
2. Enter your User Name (default is **admin**) and Password (default is **PASS**).

The EDS Web Manager window displays.

CONFIGURATION USING WEB MANAGER CONTINUED

The screenshot shows the EDS2100 Web Manager interface. The top header includes 'EDS2100 Powered by Evolution OS' and the Lantronix Evolution OS logo. A left-hand navigation menu lists various system pages. The main content area displays the 'Device Status' page, which is organized into several sections: Product Information, Network Settings, and Line Settings. Each section contains a table of key system parameters and their current values.

Product Information	
Product Type:	Lantronix EDS2100
Firmware Version:	9.9.9.9T9
Build Date:	Oct 27 2009 (11:16:13)
Serial Number:	22
Uptime:	0 days 02:28:38
Permanent Config:	Saved

Network Settings	
Interface:	eth0
Link:	10 Mbps Full (10 Mbps Full)
MAC Address:	00:20:4a:9d:00:00
Host:	<None>
IP Address:	172.19.205.52 / 255.255.0.0
Default Gateway:	<None>
Domain:	<None>
Primary DNS:	<None>
Secondary DNS:	<None>

Line Settings		
Line 1:	RS232	9600, None, 8, 1, None
Line 2:	RS232	9600, None, 8, 1, None

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

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2. Use the menu to navigate to sub pages and configure the EDS.

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LEDS MEANING

EDS2100

Power (blue)	ON = EDS is receiving power
TX Serial 1 (green)	Blinking = EDS is transmitting data on serial port 1
RX Serial 1 (yellow)	Blinking = EDS is receiving data on serial port 1
TX Serial 2 (green)	Blinking = EDS is transmitting data on serial port 2
RX Serial 2 (yellow)	Blinking = EDS is receiving data on serial port 2
Diagnostic	ON = EDS firmware has completed booting Blinking 1x/sec = EDS firmware is booting Blinking 2x/sec = EDS is writing a file to flash Blinking 4x/sec = EDS is compacting the file system Blinking 5x/sec = EDS is restoring factory defaults

EDS1100

Power (blue)	ON = EDS is receiving power
TX Serial (green)	Blinking = EDS is transmitting data on the serial port
RX Serial (yellow)	Blinking = EDS is receiving data on the serial port
Diagnostic	ON = EDS firmware has completed booting Blinking 1x/sec = EDS firmware is booting Blinking 2x/sec = EDS is writing a file to flash Blinking 4x/sec = EDS is compacting the file system Blinking 5x/sec = EDS is restoring factory defaults

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CONTACT

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

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