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WHAT'S IN THE BOX

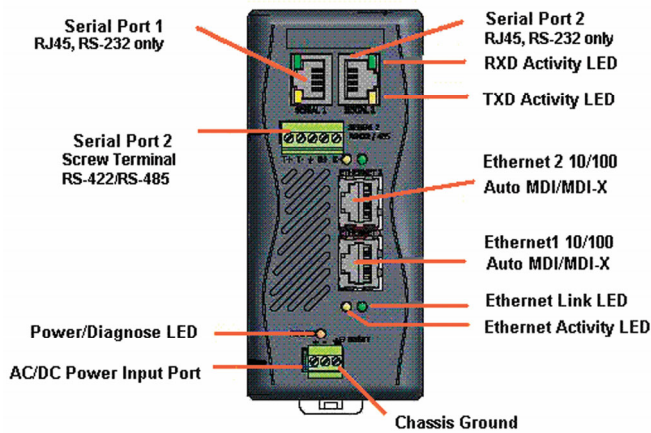
XPRESS DR+	GUIDE	ACCESSORIES	QUANTITY
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RJ45-DB9F serial cable (PN: 500-103-R)	1
DIN-rail wall mount bracket	1
3-terminal screw connector for power input	1
5-terminal screw connector for serial port	1

The user must supply a 9-30 VDC or 9-24 VAC power source and a CAT 5 Ethernet cable. Lantronix offers

HARDWARE OVERVIEW



The xPress DR+ supports RS-232 (up to 230,400 bps) via RJ45 connectors. It also supports RS-422/485 via screw terminals (Serial Port 2 only).

Note: Serial Port 2 supports RS232, RS422, and RS485, but only one mode at a time. You can use either the RJ45 connector or the terminal block, not both.

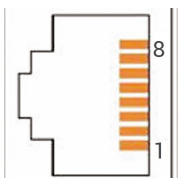
The supplied Lantronix P/N: 500-103-R serial cable can be used to connect port 1 of xPress DR+ to a PC's com port for configuration using a terminal emulation application. This cable is pinned to provide full serial control to an RS232 DTE device.

Refer to the xPress DR+ User Guide for information on configuring the xPress DR+ through the serial interface.

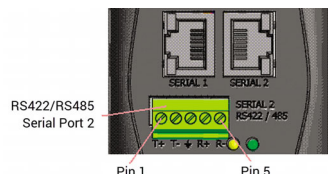
PINOUTS

RJ45 Serial Connector Pinout for RS-232

PIN	DIRECTION	NAME	FUNCTION
1	Output from DR+	RTS	Ready to Send
2	Output from DR+	DTR	Data Terminal Ready
3	Output from DR+	TXD	Transmitted Data
4	Ground	GND	Signal Ground
5	Ground	GND	Signal Ground
6	Input to DR+	RXD	Received Data
7	Input to DR+	DSR	Data Set Ready
8	Input to DR+	CTS	Clear to Send



RJ45 serial connector



Screw terminal connector

Serial Screw Terminal Pinout for RS422 (4-Wire)

PIN	DIRECTION	NAME	FUNCTION
1	Output	TX+	Transmit Data +
2	Output	TX-	Transmit Data -
3	Ground	GND	Signal Ground
4	Input	RX+	Receive Data +
5	Input	RX-	Receive Data -

Serial Screw Terminal Pinout for RS485 (2-Wire)

PIN	DIRECTION	NAME	FUNCTION
1	Bi-directional	TX+RX+	Transmit Data + / Received Data +
2	Bi-directional	TX-RX-	Transmit Data - / Received Data -
3	Ground	GND	Signal Ground
4	Not Applicable	N/A	Not used
5	Not Applicable	N/A	Not used

Note: Termination resistors (R=120 Ohm) are used to match impedance of a node to the impedance of the transmission (TX) line. Termination resistors should be placed only at the extreme ends of the TX data lines, and not more than two terminations should be placed in any single segment of an RS-485 network. The termination resistors may not be needed for your application.

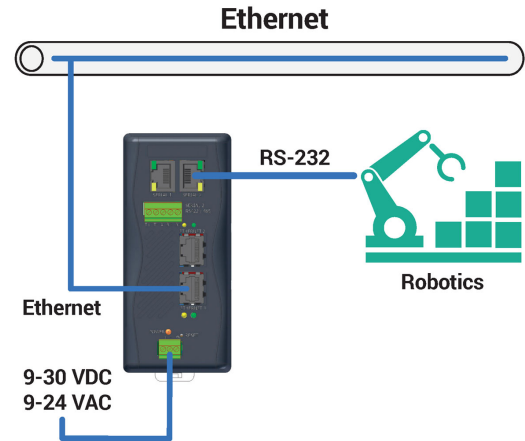


1. QUICK CONNECT

Typical Installation

Warning: Connecting a device to an active Ethernet network can disrupt communications on the network. Make sure the device is configured for your application before connecting it to an active network.

1. Connect a serial device to your xPress DR+.
2. Connect an Ethernet cable to the Ethernet port.
3. Supply power to your xPress DR+ using a 9-30 VDC or 9-24 VAC (2.3 W maximum) source.
4. Supply power to the serial device.
5. Verify that the green Link LED is lit.



ASSIGNING AN IP ADDRESS AND CONFIGURATION

The xPress DR+ must have a unique IP address on your network. The IP address can be assigned automatically using DHCP, or you can assign it manually. Two methods for assigning an IP address are described below.

DHCP

The xPress DR+ looks for a DHCP server when it first powers up to assign an IP address. The unit has acquired an IP address if the red LED stops flashing and the green Status LED is on continuously. You can use DeviceInstaller software to search the network for the DHCP-assigned IP address and add the unit to the list of Lantronix devices on the network.

The unit's IP address is set to 0.0.0.0 at the factory. The unit is DHCP-enabled as the default.

Fixed IP Address

If the unit does not acquire an IP address or you do not use DHCP, you must assign a fixed IP address. Use an IP address that is unique to your network, within a valid range, and in the same subset as your PC. You will need the following information:

IP address: _____

Subnet mask: _____

Gateway: _____

DNS: _____

We recommend that you connect the unit to the network and use DeviceInstaller to assign the IP address.

Using DeviceInstaller

1. Download the DeviceInstaller utility from the [Lantronix website](https://www.lantronix.com).
2. Install and run DeviceInstaller.
3. Click **Search** to search the network for the DHCP-assigned IP address of the unit, or click **Assign IP** to manually assign a fixed address and configure other network settings. Refer to the user guide for detailed instructions.

Configuration using Web Manager

1. Start a web browser and enter the IP address of the xPress DR+ device server.
2. The device's factory default username is left blank and the factory default password is the last 8 characters of the device ID (for devices manufactured after January 1, 2020) or is left blank (for all older devices).
3. Assign an IP address in the network settings and perform other configuration.

Additional configuration methods are described in the xPress DR+ User Guide.

LEDS

LED	Meaning
Serial port - TXD LED (Yellow)	Off = No Transmit Data from XPress DR+ Blinking = Data being transmitted from XPress DR+.
Serial port - RXD LED (Green)	Off = No Received Data by XPress DR+ Blinking = Data being received by XPress DR+.
Ethernet port - 10/100 Link (Green)	Off = No Ethernet Link established Steady On = Ethernet Link is established
Ethernet port - Activity (Yellow)	Off = No Data activity Blinking = Data activity
Power/Diagnostic LED (Orange)	Steady On = Power OK Blinking 2x = No DHCP response Blinking 2x = Setup Menu active--startup

Contact Technical Support

For technical support queries, visit <https://www.lantronix.com/support>

For the latest firmware downloads, visit <https://www.lantronix.com/support/downloads>