



# XPress™ DR / XPress™ DR-IAP

Industrial Device  
Servers



REMOTELY CONFIGURE,  
PROGRAM, MONITOR, AND  
MANAGE:

Connect PLCs, drives, process controls, power monitoring equipment, barcode scanners, and other factory floor serial devices.

The XPress™ DR and XPress DR-IAP Device Servers enable virtually any industrial device with serial capability to be connected to a new or existing Ethernet network. By encapsulating serial data and transporting it over Ethernet, the XPress DR/DR-IAP establishes virtual serial links over Ethernet. By using these units, limited-distance, point-to-point, direct serial connections can now be extended within the plant, throughout the facility, or across the global enterprise.

When used in conjunction with an OPC server, most Windows® based HMI, SCADA, and PC-based control applications have full access to information in the connected device. Existing COM-port based Windows® applications can access network-enabled devices using Lantronix Com Port Redirector software. Com Port Redirector allows the creation of virtual serial ports, which can be mapped to remote device servers over Ethernet and connected to the XPress DR and XPress DR-IAP.

The XPress DR-IAP installable communication drivers allow specific support for various industrial communication protocols. With native support for these protocols, devices that previously allowed only one connection can now support multiple connections simultaneously.

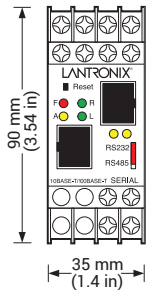
Flexible configuration options allow the unit to be set up locally using the serial port, or remotely over Ethernet using Telnet or a common web browser. DeviceInstaller™, a Windows® based configuration software, simplifies installation and configuration, enables access to the Web Manager and Telnet communications, and ping attached devices over the network. Flash memory provides for maintenance-free, non-volatile storage, and allows future system upgrades.

Packaged in a rugged DIN-rail mount case and featuring 2000V galvanic isolation, 1500V Ethernet isolation, a wide 0° to 60°C operating range, and a 9-30VDC/9-24VAC power input, the XPress DR and XPress DR-IAP are ideal for virtually any industrial application.

## XPress DR / XPress DR-IAP Highlights

- Connect enterprise (ERP, MES) systems to factory floor devices without disturbing existing control networks
- Allow remote firmware upgrades, saving money and time from manual upgrades
- XPress DR-IAP version supports industrial communication protocols
- Configurable serial interface supports RS-232, RS-422, or RS-485
- 10Base-T/100Base-TX Ethernet (RJ45)
- Isolated serial and Ethernet ports
- UL-approved for hazardous locations Class I, Division 2
- RoHS compliant

LANTRONIX



## Features and Specifications

### Serial Interface

- Interface: RS-232, RS-422, or RS-485
- Connector: Screw terminals or RJ45
- Data Rates: 300 to 115,200 bps
- Characters: 7 or 8 data bits
- Parity: odd, even, none
- Stop Bits: 1 or 2
- Flow Control:
- Software: XON/XOFF
- Hardware: RTS/CTS
- Installable Serial Protocols (XPress DR-IAP only)

### Network Interface

- Standards: ARP, UDP/IP, TCP/IP, ICMP, SNMP, BOOTP,
- DHCP, TFTP, Telnet, and HTTP
- Interface: 10Base-T/100Base-TX Ethernet
- Connector: RJ45
- Installable Application Layer Protocols (XPress DR-IAP only)

### Indicators

- Ready, Fault/Configuration, Activity, Link, Serial Transmit Data, Serial Receive Data

### Management

- SNMP, serial, Telnet, and HTTP (web browser)

### Isolation

- Ethernet:
  - 1500 Vrms from Serial Port
  - 2000 Vrms from Power Input Port
- Serial: 2000 Vrms from Power Input Port

### Power

- Input: 9 to 30VDC/9-24VAC, 3W maximum
- Connector: Screw terminals for power and ground

### Environmental (Operating)

- Temperature: 0° to 60°C (32° to 140°F)
- Humidity: 20% to 90% RH, non-condensing

### Packaging

- Mounting: DIN-rail (35 mm)
- Material: High-impact plastic
- Dimensions: 60 x 36 x 90 mm (2.4 x 1.4 x 3.54 in)

### Agency Approvals

- UL, CSA, CE, RCM, VCCI

### Warranty

- 1-Year Limited Warranty

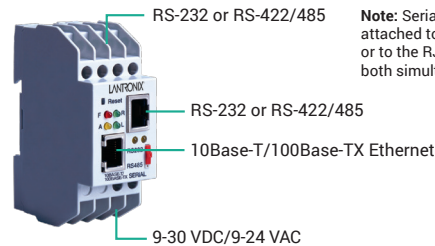
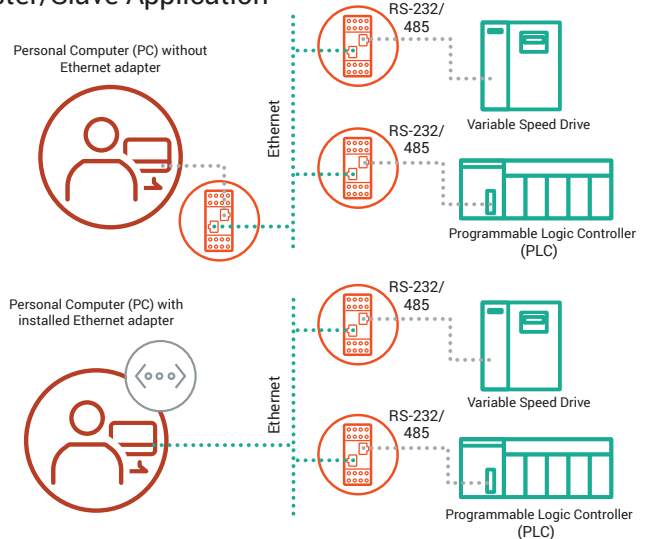
### Software

- DeviceInstaller, a Windows® based configuration software, simplifies initial set up and device configuration (available as a free download)

### Shipping Dimensions

- Size: (L x W x H) 187.3 x 228.6 x 111 mm (7.375 x 9.0 x 4.375 in)

## Master/Slave Application



**Note:** Serial connections may be attached to either the terminal block or to the RJ45 connector – but not both simultaneously.

## Part Number Description

Part Number	Description
XSDRSN-03	XPress DR Industrial Device Server, DIN Rail Mount, Serial Interface (RS-232/RS-422/RS-485 - terminal block or RJ45), 10Base-T/100Base-TX, 9-30VDC/ 9-24VAC, RoHS
XSDRIN-03	XPress DR-IAP Industrial Device Server with Installable Industrial Protocols, DIN Rail Mount, Serial Interface (RS-232/RS-422/RS-485 - terminal block or RJ45), 10Base-T/100Base-TX, 9-30VDC/9-24VAC, RoHS

## Ordering Information

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