

# NETWORK CONNECTIVITY FOR INDUSTRIAL AUTOMATION APPLICATIONS ‘RIGHT ON THE WIRE’



xDirect™-IAP is a sleek and compact Serial-to-Ethernet device server with Modbus support, providing quick and easy Ethernet connectivity to manage and control industrial automation equipment over Ethernet or the Internet.

## **Portable & Flexible**

With an integrated Ethernet port and serial cable, multiple power options including PoE, and an industry-best five year warranty, the xDirect-IAP device server provides a portable, extremely flexible, and highly affordable network connectivity solution.

## **Robust & Easy**

With plug-and-play simplicity, small form factor, multiple power options, and a robust device server application, xDirect-IAP provides the easiest and shortest path to network connectivity ‘right on the wire’.

## xDirect-IAP Highlights:

- Complete Network Connectivity Solution
- Integrated 10/100 Ethernet Port and Serial Cable
- Complete Device Server Application with Full IP Stack
- Modbus TCP, ASCII, RTU Support
- Space Saving Form Factor
- Serial Data Rate of up to 115.2 Kbps
- Flexible Power Options including PoE
- Extended Temperature Range of -40° to 85°C
- 5-year Limited Warranty

## Features and Specifications

### > Serial Interface

- Modes: RS232, RS422 or RS485 (2 and 4 wire support)
- Baud Rate: 300bps to 115.2 Kbps
- Characters: 7 or 8 data bits
- Stop Bits: 1 or 2
- Parity: Odd, even, more
- Modem Control Signals: DTR, DSR/DCD
- Flow Control: XON/XOFF (software), CTS/RTS (hardware)

### > Serial Connectors

- Single-port: DB9F (DCE Pinned)

### > Ethernet Interface

- Interface: 10Base-T /100Base-T (Auto-sensing)
- Speed: 10/100 Mbps
- Connector: RJ45
- Protocols: UDP, TCP, ARP, Telnet, ICMP, SNMP, DHCP, BOOTP, TFTP, Auto IP, HTTP, Modbus TCP, Modbus ASCII, Modbus RTU

### > LED Indicators

- Power/Status, Link, Activity, Serial RX Activity & TX Activity

### > Processor

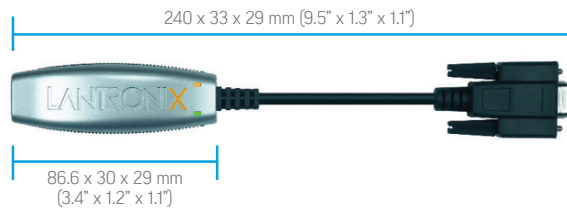
- CPU: Based on DSTni-EX Enhanced 16-bit x86 Architecture
- Memory: 256 KB SRAM, 1 MB Flash

### > Power Requirements

- Input Voltage: 5V at mini-USB-B jack
- Input Voltage: 5-15 VDC at DB9F pin 9
- Power Consumption: 1.3W max w/o PoE, 2.0W max with PoE

### > Form Factor

- Dimensions (LxWxH):



- Weight: 0.068 Kg (0.15 lbs)

### > Shipping Dimensions

- 194 x 149 x 52 mm (7.63" x 5.88" x 2.06"), non-PoE model
- 149 x 97 x 37 mm (5.88" x 3.81" x 1.44"), PoE model

### > Environmental Limits

- Operating Temperature\*\*
  - 40° to 85° C (-40° to 185° F), non-PoE model
  - 40° to 70° C (-40° to 158° F), PoE model
- Storage Temperature: -40° to 85° C (-40° to 185° F)
- Relative Humidity: 0% to 90% non-condensing

### > Software

- Windows 7/Vista/XP/2008 Server/2003 Server (32-bit and 64-bit versions), DeviceInstaller™ configuration software, Com Port Redirector software and related utilities
- Configuration Options: Telnet Client, Serial Terminal

### > Isolation and Protection

- Serial Port: 15 KV ESD protection on RS232 and RS422/485 transceivers
- Ethernet Port: 1500 VAC isolation shielded
- PoE: 1500 VAC isolation

### > Regulatory Approvals

#### • Emissions

- FCC Part 15, Subpart B, Class B
- EN55022, Class B
- EN61000-3-2, EN61000-3-3
- ICES-003 Issue 4
- AS/NZS CISPR22

#### • Immunity

- EN55024
- EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-8, EN61000-4-11

#### • Agency Approvals

- UL 60950-1, 2nd Edition
- CAN/CSA C22.2 No. 60950-1-07, 2nd Edition
- CE
- VCCI
- C-Tick
- IEC 60950-1 2005, 2nd Edition

### > Warranty

- 5-year Limited

## Ordering Information

### > Part Number

XDT4851002IA-01-S

### > Description

xDirect-IAP Device Server, Modbus, RS232/422/485 DB9F Serial Port, 10/100 Ethernet Port, 100-240 VAC International Power Supply with Regional Adapters, RoHS

XDT10P0IA-01-S

xDirect-IAP PoE Device Server, Modbus, RS232/422/485 DB9F Serial Port, 10/100 Ethernet Port, No Power Supply, RoHS

### > Accessories

140-448-R

### > Description

Mini DB9M-M Gender Changer, Null Modem with Pin 9, RoHS  
Power Supply, 100-240 VAC, 50-60Hz, 5VDC 1A, Mini USB-B Right Angle, 4 Regional Adapters, Level V, RoHS

520-119-R



\*\*The xDirect-IAP device server is UL rated to 75° C. The included power supply (non-PoE model only) has an operating temperature range of 0° to 40° C.