



Industrial Device Server

The CoBox-DR1-IAP Device Server allows most any serial device to be connected to a new or existing Ethernet network.

CoBox-DR1-IAP is a member of the new IAP (Industrial Automation Platform) family of products, which are loadable with various Industrial Communications Protocols from the supplied APS (Automation Protocols Suite) CD. The user simply chooses the appropriate protocol that his application requires and loads that in to any of the -IAP family Device Servers. Continuous addition of more Industrial Communication Protocols to the APS CD will expand the number of application where the -IAP family of products can be used.

By encapsulating serial data and transporting it over Ethernet, the CoBox-DR1-IAP allows virtual serial links to be established over Ethernet. By using this unit, 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.

- Remotely configure, program, monitor and manage: PLCs, Drives, Process Controls, Power Monitoring Equipment, Barcode Scanners, and other factory floor serial devices
- Choose from many supplied Industrial Communications Protocols or the Standard Serial Protocol Tunneling on the APS CD
- Connect enterprise (ERP, MES) systems to factory floor devices without disturbing existing control networks
- Configurable serial interface supports RS-232, RS-422 or RS-485
- 10BASE-T Ethernet (RJ-45)
- Isolated serial and Ethernet ports
- Wide 9–30 VDC power input

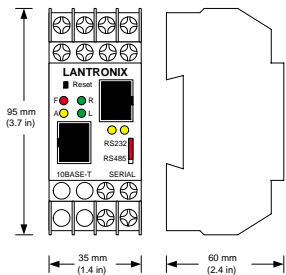
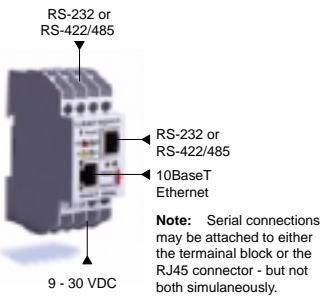
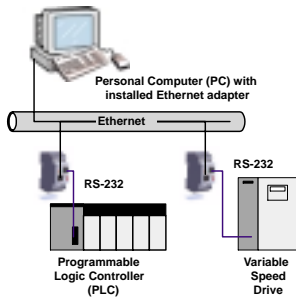
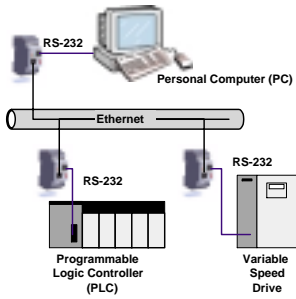
Existing COM-port based Windows™ applications can access network-enabled devices, using Comm Port Redirector™ software. Redirector allows the creation of virtual serial ports, which can be mapped to remote Device Servers over Ethernet. Installable communication drivers allow specific support for most 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 setup locally using the serial port, or remotely over Ethernet using telnet or a common web browser.

Included Windows™ based configuration software simplifies the process of installing communication drivers and in configuring them for use with attached devices. Flash memory provides for maintenance-free non-volatile storage, and allows future system upgrades.

Packaged in a rugged DIN-rail mount case and featuring 2000 V isolation, a wide 0 to 60 °C operating range, and a 9-30 VDC power input, the DR10A is ideal for any industrial application.

Example Configurations



Serial Interface:

Interface: RS-232, RS-422 or RS-485
 Connector: Screw terminals or RJ45
 Data Rates: 300 to 38,400 bps
 Characters: 7 or 8 data bits
 Parity: odd, even, none
 Stop Bits: 1 or 2
 Flow Control: RTS/CTS (RS-232 only, radio modems)
 Installable serial protocols

Network Interface:

Standards: ARP, UDP/IP, TCP/IP, ICMP, SNMP, BOOTP, DHCP, TFTP, Telnet and HTTP
 Interface: 10BASE-T Ethernet
 Connector: RJ45
 Installable application layer protocols

Indicators:

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

Management:

SNMP, SNMP proxy, serial, telnet and HTTP (web browser)

Isolation:

Ethernet: 1500 Vrms
 Serial: 2000 Vrms

Power:

Input: 9 to 30 VDC, 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: 35 x 95 x 60 mm (1.4 x 3.7 x 2.4 in)

Agency Approvals:

UL, CSA, TUV, FCC-B, CE, FM (Pending)

Software:

Included Windows™ 95/98/ME/NT/2000 based configuration software simplifies initial setup

Shipping Dimensions:

111 x 228.6 x 187.3 mm (4.375 x 9.0 x 7.375 in)

Ordering Information:

CoBox-DR1-IAP

Industrial Device Server, DIN-rail mounting, serial interface (RS-232, RS-422, RS-485 – terminal block or RJ45), 10BaseT Ethernet, diagnostic LEDs, 9 to 30 VDC power input, CD-ROM with configuration tools, installable communication drivers and Installation Guide

Specifications

CoBox-DR1-IAP

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