

Product Data Sheet

10/100 Device Server RS232/422/485

Overview

Use your Ethernet network to reliably access one or two remote RS-232 or RS-422/-485 industrial devices from a remote workstation.

The 10/100 Device Server gives you a cost-effective gateway for TCP/IP Ethernet and serial signal communications, enabling nearly any serial device to be connected to a new or existing Ethernet network.

It does this by encapsulating serial data and transporting it over Ethernet, communicating full-duplex and transmitting bidirectional data transparently between the serial port and a network.

Plus, it's easy to configure. You can do this remotely over the Ethernet link using Telnet, a Web browser link, a serial console, or another Windows utility.

Even better, it comes with virtual communications software. Through it, you can use an existing Windows based application to access a serial device by mapping the virtual COM port to a remote serial server over Ethernet.

In addition, the device server supports TCP server, TCP client, and UDP modes of communication, and serial tunneling, which you can use to send data between two serial devices via the TCP/IP link instead of RS-232, -485, or -422 connections. Link a touchscreen to a distant PLC over the Ethernet network, for instance. (NOTE: Multiple units needed for TCP client and tunneling modes.)

Ideal for any manufacturing, process engineering, or automation application, the 10/100 Device Server can also be used to communicate with a barcode scanner, PLC, electronic Kanban inventory management device, and similar equipment on the factory floor.



Basic Features

- Remotely monitor, manage, and control industrial device in the field.
- Easy to configure through a Web browser, serial console, Telnet™, or Windows® utility.
- Features TCP server/client, UDP, virtual COM, and tunneling modes.
- Software-selectable RS-232/485/422 serial data communications.
- Auto MDI/MDI-X Ethernet port., auto-negotiates, auto-detects for 10 or 100 Mbps.
- Rugged, very compact metal case that can be wall or DIN rail mounted (mounts included).
- Firmware upgrade over an Ethernet network from a remote PC.
- Supports redundant dual DC power input for uninterrupted operation.
- Features 15-kV ESD protection on serial side.
- Ideal for controlling a manufacturing or automation device over a LAN.

Item	Code
10/100 Device Server RS232/422/485	
1 Port	LES301A
2 Ports	LES302A
You may also need...	
DIN Rail Power Supplies - 12VDC	MDR-10-12

10/100 Device Server RS232/422/485 Data Sheet

10/100 Device Server RS232/422/485 Specifications

Ethernet Interface	10 or 100 Mbps
Serial Baud Rate	1200 bps to 230 kbps
Serial Data Bits	7,8
Serial Data Parity	None, Odd, Even, Mark, Space
Serial Flow Control	None; Software: Xon/Xoff; Hardware: RTS/CTS
Serial Stop Bits	1,2
Serial ESD Protection	15 kV
Standard	IEEE 802.3
Software Support Protocols	Software Support Protocols
Power	9–30 VDC from separate AC power supply (not included); Consumption: 1.5 Watts (maximum)
Connectors	Serial: (1) or (2) DB9 M (RS-232/422/485 software selectable); Ethernet: (1) RJ-45 (10BASE-TX/100BASE-T)
Size	LES301A: 2.8H x 6.6W x 7.9D cm LES302A: 2.8H x 7.6W x 8.6D cm
Operating Temperature	10 to 60° C

About Black Box:

Black Box is a leading technology product solutions provider that helps customers build, manage, optimize, and secure their networks. The Black Box quality management system is ISO 9001:2008 certified, and the company has received numerous industry recognitions. Black Box provides its customers with free, 24/7 pre- and post-sales technical support. The Black Box catalog and Web site offer an extensive range of infrastructure products including Cabling, Cabinets & Racks, Data Center Cooling Solutions, Power & Surge Protection, and Environmental Monitoring.

© Copyright 2014. Black Box Corporation. All rights reserved. Black Box® and the Double Diamond logo are registered trademarks of BB Technologies, Inc. Any third-party trademarks appearing in this publication are acknowledged to be the property of their respective owners.