

ES-2

Ethernet to Serial Converter



The **ES-2 Ethernet to Serial Converter** is a device server that connects RS-232 serial devices —such as NTS Modem Ports, NTS Application Card Service Ports, and any other external equipment (microwave, control devices, etc.) to an IP-based Ethernet LAN. This makes it possible for device management software to access serial devices from anywhere over a local LAN or the Internet. The ES-2 makes your industrial serial devices Internet-ready in no time.

The ES-2 ensures the compatibility of network software that uses a standard network API (Winsock or BSD Sockets) by providing TCP Server Mode, TCP Client Mode, and UDP Mode. And, thanks to the ES-2 real COM/TTY drivers, software that works with COM/TTY ports can be set up to work over a TCP/IP network without modifying your serial COM software applications. This excellent feature preserves your software investment and lets you enjoy the benefits of networking your serial devices, instantly.

The ES-2 supports automatic IP configuration protocols (DHCP, BOOTP) and manual configuration via the handy web browser console. Both methods ensure quick and effective installation. And with ES-2's Windows Utility, installation is very straightforward, since all system parameters can be stored and then copied to other device servers simultaneously.

Features:

- Makes serial devices Internet-ready, instantly
- Auto detectable 10/100 Mbps Ethernet port
- Built-in 15 KV ESD protection for all serial signals
- Easy-to-use Windows Utility for installing multiple device servers
- SNMP MIB-II supported for network management
- Pair Connection mode for connecting two serial devices over a network without a PC
- Versatile socket operation modes, including TCP Server, TCP Client, and UDP
- Reverse Telnet



Actual Size

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Advanced Built-in Features

Watch Dog Timer
Web Browser Console
Simultaneous use of two fully independent COM ports

Software Features

Protocols ICMP, IP, TCP, UDP, DHCP, BOOTP, Telnet, DNS, SNMP, HTTP, SMTP, SNTF
Utilities ES-2 Configurator for Windows 95/98/ME/NT/2000/XP, Real COM/TTY Drivers, Windows 95/98/ME/NT/2000/XP COM driver, Linux real TTY driver
Configuration Web Browser, Serial/Telnet Console, or Windows Utility

Physical Features

Casing IP30 protection, aluminum case (1 mm)
Dimensions 90W × 100.4H × 22D mm
3.54 × 3.95 × 0.87 in
Gross Weight 0.135 kg (0.30 lb)
Installation DIN-Rail, Wall Mounting

Product Specifications

Ethernet LAN 10/100 Mbps, RJ45
Protection Built-in 1.5 KV magnetic isolation

Power Line Protection

4 KV Burst (EFT), EN61000-4-4

Environmental

Operating Temperature 0 to 55°C (32 to 131°F), 5 to 95%RH
Storage Temperature -20 to 85°C (-4 to 185°F), 5 to 95%RH

Power Requirements

Power Input 12 to 30VDC
Power Consumption 305 mA at 12V (max.)

Regulatory Approvals

EMC FCC Class A, CE Class A
Safety UL, CUL, TÜV

Serial Interface

Interface RS-232
No. of Ports 2
Port Type RJ45 (8-pin)
Signals TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND
Serial Line Protection 15 KV ESD for all signals

Serial Communication Parameters

Parity None, Even, Odd, Space, Mark
Data Bits 5, 6, 7, 8
Stop Bit 1, 1.5, 2
Transmission Speed 110 bps to 115.2 Kbps
Flow Control RTS/CTS (for RS-232 ports only), XON/XOFF

Specifications subject to change without notice.

