

Ethernet to Serial Device Server

OM-ES-020



- ✓ 1 Port RS232 to Ethernet Device Server
- ✓ Maximum Baud Rate 1,000,000 (1 MegaBaud)
- ✓ 10/100Base TX Ethernet Port
- ✓ User Friendly Interface
- ✓ Web Configuration and RFC2217 Compliant Interface for Non-Windows Users
- ✓ NEMA 1 (IP-30) Rated Enclosure
- ✓ LED Status Indication
- ✓ Serial Port Tunneling (Individually Configurable) Allows Serial Cable Replacement Over Any Distance, No Software Required



OM-ES-020 shown actual size.

The OM-ES-020 ethernet to serial device server is ideal for industrial applications. Data transfer rates up to 1,000,000 baud, coupled with 1Mbit/s line drivers deliver uncompromising performance. The OM-ES-020 range provides simple instant networked serial ports. A web interface allows secure configuration and control of the serial ports over a local network or the internet using any browser.

For Windows® our 32- and 64-bit driver gives you local COM ports, retaining existing software applications and allowing you to connect across your network to remote devices just as if they were attached locally. You can access the device via TCP/IP sockets from any networked device like an Android tablet, PC or phone. Serial port tunneling (individually configurable) allows serial cable replacement over any distance, no software required. On Windows OS TCP/IP sockets are handled by the Winsock API, this will differ on other OSs. The OM-ES-020 can be wired into existing power and network infrastructure or it can be used with a separate power supply.

Windows Users

Our software drivers give you local COM ports, allowing you to retain your existing software applications and connect to your devices over the network. COM Port can be assigned from COM1 to COM255 and the OM-ES-020 ethernet to serial device remembers your COM Port assignment on reboots.

Web Interface Users (Linux/Apple OS/Android) Alternatively access the device via TCP/IP socket from any networked device. Configure options via web interface.

Specifications

SERIAL PORT

Ports: 1 port RS232

Connector: Screw terminal block connector - 0.1 inch pitch

Power Input: 5 to 30 Vdc input, reverse polarity protected

Power Consumption: 0.76 W typical

PORT SETTINGS

Baud Rate: From 110 to 1,000,000 (1 MegaBaud)

Data Bits: 5, 6, 7 or 8

Parity: Odd, even, none, mark or space

Stop Bits: 1 or 2

Flow Control: RTS/CTS, DSR/DTR, XON/XOFF

TX/RX Modes: Point to Point

ETHERNET PORT

Data Rate: 10/100 Mbps

Cabling: Normal/Crossover auto-sensing (Auto-MDIX)

LED INFORMATION

Status LED

Green: Device ready

Flashing Yellow: Changing settings

Flashing Between Red and Green: Querying IP

Flashing Green/Red: User performing hard reset

Flashing between Green and Red/Yellow:

IP address diagnostic

Flashing Between Green and Yellow:

Initialization diagnostic

66 (2.6)
49.8 (1.96)
78 (3.07)
91.8 (3.61)
110.4 (4.35)

Dimensions: mm (inch)

28 (1.1)
101 (3.98)
1 3
1 10

KEY
1 - Power Input
2 - Reset Button
3 - Ethernet Port

RS232 Port			
Pin 1	TxD	Pin 6	DTR
Pin 2	RxD	Pin 7	DSR
Pin 3	RTS	Pin 8	DCD
Pin 4	CTS	Pin 9	RI
Pin 5	GND	Pin 10	GND

SERIAL PORTS LEDs

Green Light on: Port Open

Flashing Green: Data RX/TX

NETWORK LED

Green Light On: Link established

Flashing Green: Data RX/TX

ENVIRONMENTAL

Operating Temperature:
0 to 55°C (32 to 131°F)

Storage Temperature:
-20 to 85°C (-4 to 185°F)

Ambient Relative Humidity:
5 to 95% (non-condensing)

Housing: NEMA 1 (IP-30)
rated case

SOFTWARE

Network Protocols: ICMP, IP, TCP, UDP, DHCP, BOOTP, Telnet, HTTP, RFC2217

Configuration Options:
Windows utility, web interface

OS Compatibility: Windows 2000, Windows Server 2008 (32 and 64-bit), Windows XP/Vista/7 and 8 (32 and 64-bit)/Fully RFC2217 compliant/ interface for other OS's and Linux

Connection to Network:
Ethernet 10BaseT/100BaseTX



OM-ES-020 shown smaller than actual size.

To Order

Model No.	Description
OM-ES-020	Ethernet to serial device server, 1 port RS232

Comes complete with utility software and operator's manual on CD.

Ordering Example: OM-ES-020, ethernet to serial device server, 1 port RS232.