

EDG-4504

4-port RS-232/422/485 to Ethernet Data Gateway



FCC CE

Features

- Automatic network connection recovery
- Auto-detects 10/100 Mbps Ethernet interface
- Supports an advanced security mechanism to avoid unauthorized access
- Tx/Rx LEDs for all ports to monitor data transmission
- Convenient and simple installation wizard
- Simple setup and configuration
- Surge protection for serial signals
- Automatic RS-485 data flow control

Introduction

The EDG-4504 is an industrial-grade, network-based, serial device server for connecting four RS-232/422/485 devices, such as CNCs, PLCs, scales, and scanners, directly to a TCP/IP network (Ethernet or Internet). Compared to similar devices on the market, it has a lower cost, great performance, and the most advanced features. Both 10 Mbps and 100 Mbps Ethernet connections are supported, providing higher bandwidth, lower traffic impact, and more layout flexibility.

Specifications

Ethernet Communications

- **Compatibility** IEEE802.3, IEEE802.3u
- **Speed** 10/100 Mbps
- **Connectors** 1 x RJ-45

Serial Communications

- **Type** RS-232/422/485
- **Connectors** 4 x DB9 Male
- **Ports** 4
- **Data Bits** 5, 6, 7, 8
- **Stop Bits** 1, 1.5, 2
- **Parity Bits** None, even, odd, space, mask
- **Baud Rate** 50 bps ~ 230.4 kbps
- **Data Signals** RS-232: TxD, RxD, CTS, RTS, DTR, DSR, DCD, RI, GND
RS-422: TxD+, TxD-, RxD+, RxD-, GND
RS-485: Data+, Data-, GND

Protection

- **Surge Protection** 15 kV_{ESD} for serial signal

Software

- **Drivers Supported** Windows® 98/NT/2000/XP
- **Utility Software** Auto-detecting configuration utility (up to 128 devices)
port mapping utility
- **Operation Modes** Virtual COMport
- **Configuration** Configuration utility
Port mapping utility

Mechanics

- **Dimensions (HxWxD)** 36 x 188 x 120 mm
- **Enclosure** Aluminum chassis
- **Mounting** DIN-rail, wall

General

- **Certifications** CE, FCC class A
- **LED Indicators** System: status
Network: Tx/Rx, Link, Speed (10/100 Mbps),
Serial: Tx/Rx

Power

- **Power Input** Unregulated 10 ~ 30 V_{DC}
- **Power Consumption** 4.5 W

Environment

- **Operating Temperature** 0 ~ 55° C (32 ~ 131° F)
- **Storage Temperature** -20 ~ 80° C (-4 ~ 176° F)
- **Operating Humidity** 20 ~ 95% (non-condensing)
- **Storage Humidity** 0 ~ 95% (non-condensing)

Ordering Information

- **EDG-4504** 4-port RS-232/422/485 to Ethernet Data Gateway

Applications

- Industrial/Factory automation
- SCADA systems
- Telecommunications
- Automatic warehouse control
- Building automation
- Wafer fabrication systems
- Self-service banking systems
- Large scale retail systems