

# EDG-4508(R)+ EDG-4516(R)+

8-port RS-232/422/485 to Ethernet  
Data Gateway with Front/Rear Wiring

16-port RS-232/422/485 to Ethernet  
Data Gateway with Front/Rear Wiring



## Features

- RS-232/422/485 Serial Communication, up to 8 or 16 port
- Supports 10/100Base-T Ethernet network
- Supports Baud rate up to 230.4 kbps
- Provides Virtual COMport, TCP/IP and UDP operation modes
- 4 x DI/O for alarm/event control
- Provides rich configuration ways: Serial Console, Windows utility, and Web
- Supports an advanced security mechanism to avoid unauthorized access
- Auto connection recovery
- Remote download firmware
- Easy-managing Port Mapping Utility and configuration utility for Windows NT/2000/XP
- Buzzer for easy locate
- Rack mounted
- Rear wiring (EDG-4508R+/16R+)
- Automatic RS-485 data flow control

## Introduction

EDG-4508 and EDG-4516 are industrial-grade network-based serial device servers for connecting up to 8 or 16 serial RS-232/422/485 device, such as CNCs, PLCs, scales and scanners, directly to Ethernet network. Compared with similar product on the market, EDG-4508 and EDG-4516 are low cost, but with high performance and reliability.

EDG-4508 and EDG-4516 provide 8 and 16 ports of serial communication. For many applications, you could also use EDG-4508 and EDG-4516 to remote monitor and control your serial device. Furthermore, EDG-4508 and EDG-4516 also build-in 4 channel digital inputs and 4 channel digital outputs for alarm or event control. EDG-4508 and EDG-4516 offer different ways to configured through windows utility, COM port mapping utility or serial interface console, these configuration methods make it easy manage many EDG-4508 and EDG-4516 or serial devices on your network.

## Specifications

### Ethernet Communication

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

### Serial Communication

- **Type** RS-232/422/485
- **Connectors** 8 x RJ-48(EDG-4508)  
16 x RJ-48(EDG-4516)
- **Ports** 8 (for EDG-4508)  
16 (for EDG-4516)
- **Data Bits** 5,6,7,8
- **Stop Bits** 1,1.5,2
- **Parity Bits** Odd,even,none,space,mark
- **Baudrate** 50bps ~ 230.4 kbps
- **Data Signals** TxD, RxD, CTS, RTS, DTR, DSR, DCD, RI, GND (RS-232)  
TxD+, TxD-, RxD+, RxD-, GND (RS-422)  
Data+, Data-, GND (RS-485)
- **Digital I/O** 4DI & 4DO  
Digital Input:  
Logic level 0 : 0 ~ 4.2 V, close to GND  
Logic level 1 : 4.4 ~ 5 V, open  
Digital Output:  
Open collector up to 30 V, 200 mA Max load

### Protection

- **Serial Protection** 15 KV<sub>ESD</sub>

### Software

- **Drivers Supported** Windows® NT/2000/XP

- **Utility Software** Auto-detecting configuration utility (up to 256 devices)  
Port mapping utility
- **Operation Mode** Virtual COM port  
TCP/UDP server data mode  
TCP/UDP client data mode,  
AT command like control mode
- **Configuration** Configuration utility  
Port mapping utility  
Console serial command line interface configuration  
Web interface configuration

### Mechanics

- **Enclosure** SECC Chassis
- **Mounting** Rack
- **Dimensions (H x W x D)** 44 x 442 x 190 mm

### General

- **Certification** CE,FCC ClassA
- **LED** Power, Status  
Ethernet: Speed, Link  
Serial: Tx, Rx

### Power

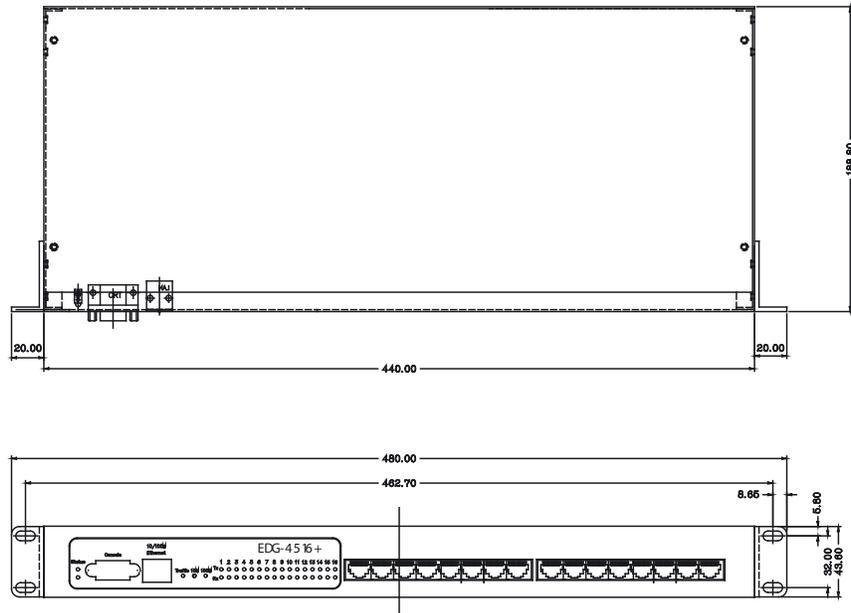
- **Power Input** 90 ~ 260 V<sub>AC</sub>, 47 ~ 63 Hz
- **Power Consumption** 10 W (EDG-4516)  
8 W (EDG-4508)

### Environment

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

## Dimensions

Unit: mm



## Ordering Information

- **EDG-4508+** 8-port RS-232/422/485 to Ethernet Data Gateway with front wiring
  - **EDG-4516+** 16-port RS-232/422/485 to Ethernet Data Gateway with front wiring
  - **EDG-4508R+** 8-port RS-232/422/485 to Ethernet Data Gateway with rear wiring
  - **EDG-4516R+** 16-port RS-232/422/485 to Ethernet Data Gateway with rear wiring
- \*all items include 1 PC 30cm RJ-48 to male DB9 RS-232/422/485 cable

- **OPT1A** 1 m RJ-48 to male DB9 RS-232/422/485 cable
- **OPT1D** 30 cm RJ-48 to male DB9 RS-232/422/485 cable
- **OPT1G** 1 m RJ-48 to male DB25 RS-232/422/485 cable
- **OPT1H** 1 m RJ-48 to female DB25 RS-232/422/485 cable