

# EDG-4504 EDG-4508 EDG-4516

## 4-port Ethernet to RS-232/422/485 Data Gateway 8-port Ethernet to RS-232 Data Gateway 16-port Ethernet to RS-232 Data Gateway



### Introduction

EDG-4504/4508/4516 is an industrial-grade network-based serial device server for connecting 4 RS-232/422/485 devices (EDG-4504) 8/16 RS-232 devices (EDG-4508/4516), 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 the lowest cost, best performance, and most advanced features.

Both 10 Mbps and 100 Mbps Ethernet connections are supported, providing higher bandwidth, lower traffic impact, and more layout flexibility.

EDG-4504/4508/4516 has a professional cabin design, with Tx/Rx LEDs for all ports on the front panel, and all of the 4 DB9 and 8/16 RJ45 phone jack connectors. This makes EDG Series suitable for multi-task environment, and simplifies its operation, maintenance, and administration.

### Applications

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

### Specifications

#### Hardware

- **I/O controller:** 16C654 or compatible (auto hardware flow control)
- **Memory:** 1 MB (8 ports), 2 MB (16 ports), 4 MB (4 ports)
- **Connector type:** DB9 (EDG-4504)  
RJ45 (EDG-4508/4516)

#### Interface

- **LAN :** 100Base-TX (10/100 Mbps)
- **Serial:** RS-232/422/485 (EDG-4504), RS-232 (EDG-4508/4516)
- **Signals:** TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND

### Features

- Windows native COM port compatible-existing applications can access EDG-4508/4516's COM ports
- Automatic connection recovery to network
- Standard 19-inch rack-mountable design for industrial applications
- Auto-detects 10/100 Mbps Ethernet interface
- RS-232 devices can be shared by multiple hosts
- 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 with a user-friendly GUI-no host reboot required

### Performance

- **Speed:** 50 - 230.4 Kbps
- **Max. No. of ports:** 256 (per Windows NT)

### Configuration

- **Parity:** None, even, odd, space, mask
- **Data bits:** 5, 6, 7, 8
- **Stop bits:** 1, 1.5, 2

### OS supported

- **EDG-4504:** Windows 98/NT/2000/XP
- **EDG-4508/4516:** Windows 98 and Windows NT

### Power and Environment

- **Power requirements:**  
90 V ~ 260 V, 47 ~ 63 Hz, 60 W (EDG-4508/4516)  
+10 ~ +30 V<sub>DC</sub> (EDG-4504)
- **Operating temp.:** 0 ~ 55° C (32° ~ 131° F)
- **Surge Protection:** 15,000 V<sub>ESD</sub>

### Ordering Information

- **EDG-4504**  
4-port Ethernet to RS-232/422/485 Data Gateway
- **EDG-4508**  
8-port Ethernet to RS-232 Data Gateway
- **EDG-4516**  
16-port Ethernet to RS-232 Data Gateway

### Optional Accessories

- **Opt1A**  
100 cm RJ45 to male DB9 RS-232/422/485 cable (EDG-4504 only)
- **Opt1B**  
150 cm RJ45 to female DB25 RS-232 (DCE) cable (EDG-4508/4516 only)
- **Opt1C**  
150 cm RJ45 to male DB25 RS-232 (DTE) cable (EDG-4508/4516 only)

