

# EDG-6528 Series

## 8-port 10/100 Mbps Industrial Ethernet Switches



### Features

- Provides 8 x 10/100 Mbps Ethernet ports with RJ-45 connector
- Supports full/half duplex flow control
- Supports MDI/MDIX auto crossover
- Provides broadcast storm protection
- Embedded with a switch controller, supports auto-negotiation
- Embedded with the memory buffer, supports store-and-forward transmission
- Supports +12 ~ 48 V<sub>DC</sub> voltage
- Provides surge protection 3,000 V<sub>DC</sub> for power line
- Supports 4000 V<sub>DC</sub> Ethernet ESD protection (6528 and 6528L only)
- Provides flexible mounting: DIN-rail and panel-mounting
- Supports wide-range operating temperature: -40 ~ 85° C (EDG-6528L)
- Supports two individual power sources (6528 and 6528L only)

### Introduction

EDG-6528 is an industrial-grade Ethernet switch that realizes fast and cost-effective expansion of industrial networks. EDG-6528 has eight 10/100 Mbps Ethernet ports for connection with up to eight Ethernet devices. Moreover, EDG-6528 has industrial-grade design that assures high reliability and stability. Therefore, EDG-6528 is an excellent solution for industrial environments with Ethernet networking, such as semi-conductor factories, inventory control environments, assembly lines and production.

EDG-6528 includes a switch controller that can automatically sense transmission speeds. (10/100 Mbps) The RJ-45 interface can also be auto-detected, so MDI or MDIX is automatically selected and a cross-over cable is not required. All Ethernet ports have memory buffers that support the store-and-forward mechanism. This assures that data can be transmitted properly. The EDG-6528 is extremely compact and can be mounted on a DIN-rail or a panel, so it is suitable for any space-constrained environment. The power line of EDG-6528 supports up to 3,000 V<sub>DC</sub> surge protection, which secure equipment against unregulated voltage and make systems safer and more reliable.

### Specifications

#### Communications

- **Standard** IEEE 802.3, 802.3u, 802.3x
- **LAN** 10/100 Base-TX
- **Transmission Distance** Up to 100 m
- **Transmission Speed** Up to 100 Mbps

#### Interface

- **Connectors** 8 x RJ-45  
5-pin removable screw terminal (power)
- **LED Indicators** EDG-6528/6528L: PWR, P1, P2, FAULT, LINK, 10/100 Mbps  
EDG-6528L: PWR, LINK, 10/100 Mbps

#### Power

- **Power Consumption** Max. 3.1 W
- **Power Input** EDG-6528, EDG-6528L: 2 x Unregulated 10 ~ 48 V<sub>DC</sub>  
EDG-6528L: 1 x Unregulated 10 ~ 48 V<sub>DC</sub>
- **Fault Output** 1 Relay Output (EDG-6528L not equipped)

#### Mechanism

- **Dimensions (W x H x D)** 56 x 134 x 114 mm
- **Enclosure** IP30, Metal shell with PC side panel (mounting kits included)
- **Mounting** DIN 35 rail, Wall

#### Protection

- **ESD (Ethernet)** 4,000 V<sub>DC</sub> (EDG-6528L not equipped)
- **Surge (EFT for power)** 3,000 V<sub>DC</sub>
- **Power Reverse** YES

#### Environment

- **Operating Temperature** EDG-6528, EDG-6528L: 0 ~ 70° C (32 ~ 158° F)  
EDG-6528L: -40 ~ 85° C (-40 ~ 185° F)
- **Storage Temperature** EDG-6528, EDG-6528L: -10 ~ 80° C (14 ~ 176° F)  
EDG-6528L: -50 ~ 95° C (-58 ~ 203° F)
- **Operating Humidity** 20-95% (non-condensing)
- **Storage Humidity** 0-95% (non-condensing)
- **MTBF** 1,260,000 hrs

#### Certifications

- **Safety** UL 60950-1, CAN/CSA-C22.2 No.60950
- **EMC** U.S.A.: FCC Part 15 CISPR 22  
EU: EN55011, EN61000-6-4  
EN55022 Class A,  
EN61000-3-2/3,  
EN55024,  
IEC61000-4-2/3/4/5/6/8/11  
EN61000-6-2

### Ordering Information

- **EDG-6528** 8-port 10/100 Mbps Industrial Ethernet Switch
- **EDG-6528L** 8-port 10/100 Mbps Industrial Unmanaged Ethernet Switch
- **EDG-6528I** 8-port 10/100 Mbps Industrial Ethernet Switch w/Wide Operating Temperature