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_{DC} voltage
- Provides surge protection 3,000 V_{DC} for power line
- Supports 4000 V_{DC} Ethernet ESD protection (6528 and 6528I only)
- Provides flexible mounting: DIN-rail and panel-mounting
- Supports wide-range operating temperature: -40 ~ 85° C (EDG-6528I)
- Supports two individual power sources (6528 and 6528I only)

CE FCC

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_{DC} 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-6528/6528I: 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-6528I: 2 x Unregulated 10 ~ 48 V_{DC}
                         EDG-6528L: 1 x Unregulated 10 ~ 48 V_{DC}
- **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_{DC} (EDG-6528L not equipped)
- **Surge (EFT for power)** 3,000 V_{DC}
- **Power Reverse**   YES

Environment

- **Operating Temperature** EDG-6528, EDG-6528L: 0 ~ 70° C (32 ~ 158° F)
                            EDG-6528I: -40 ~ 85° C (-40 ~ 185° F)
- **Storage Temperature**   EDG-6528, EDG-6528L: -10 ~ 80° C (14 ~ 176° F)
                            EDG-6528I: -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