

EKI-6538

8-port Industrial 10/100Mbps Smart Ethernet Switch

NEW



Features

- Provides push button for port diagnostic
- Supports web browser configuration and RS-232 console for basic setting
- Supports IEEE 802.1Q tagged VLAN
- Supports ports aggregation, aggregated ports auto failed over and load balance per trunk
- Supports port mirroring for traffic monitoring
- Supports IEEE 802.1p QoS for traffic classification and prioritization
- Provides port configuration for auto-negotiation setting of speed/flow control
- Supports ingress/egress rate control per port and broadcast storm protection
- Supports MAC-based security per port
- Supports traffic statistic monitor per port
- Supports dual +10 ~ 48 V_{DC} power input
- Supports operating temperature range: 0 ~ 60° C

Introduction

Equipped with 8 10/100Base-TX Fast Ethernet ports with RJ-45 connector, Advantech EKI-6538 Industrial Smart Ethernet Switch presents as a cost-effective solution for the industrial customers to implement Ethernet packet switching with easy configuration of network performance and security in the harsh environment. Besides of the compliance with standard industrial design, like wide dual power input (10 ~ 48 V_{DC}), wide operating temperature (0 ~ 60° C), rugged mechanism design and multiple mounting ways, EKI-6538 plays smarter than other unmanaged switches in the network management: VLAN, QoS, Port Mirroring, and Port Trunk.

Specifications

Communications

- **Standard** IEEE 802.3, 802.3ad, 802.3u, 802.3x, 802.1p, 802.1Q
- **LAN** 10/100Base-TX
- **I/O Type**
 - 2 Digital Input - Logic Level 0 : close to GND
 - Logic Level 1 : open
 - 2 Digital Output - Open collector to 30 V, 200 mA (Max.load)
- **Transmission Distance** 100 m
- **Transmission Speed** Up to 100 Mbps

Interface

- **Connectors**
 - 8 x RJ-45 (Ethernet)
 - 5-pin removable screw terminal (DI/DO)
- **LED Indicators** P1, P2, P-Fail, Fault, LINK, 10/100 Mbps
- **Console** RS-232 (RJ-48)

Network Management

- **Diagnostics**
 - Push button for port diagnostic
 - Port Mirroring
 - Real-time traffic statistic
- **VLAN** IEEE 802.1Q tagged VLAN
- Port-based VLAN
- **Configuration** Web browser and RS-232 console management
- Speed/duplex auto-negotiation
- **Security** MAC-based security per port
- **Traffic Control** IEEE 802.1p QoS
- IEEE 802.3ad Link Aggregation
- Rate limit and storm control
- IEEE 802.3x flow control

Mechanism

- **Enclosure** IP30, ABS+PC with solid mounting hardware
- **Dimensions (WxHxD)** 46 x 162 x 126 mm
- **Mounting** DIN35 rail, wall

Power

- **Power Connectors** 7-pin removable screw terminal
- **Power Consumption** Max. 7 W
- **Power Input** 2 x Unregulated 10 ~ 48 V_{DC}
- **Fault Output** Present

Protection

- **ESD Protection** 4,000 V_{DC} (Ethernet)
- **Surge (EFT) Protection** 3,000 V_{DC} (Power)
- **Power Rev. Protection** Present
- **Overload Current Prt.** 4 A / 125 V

Environment

- **Operating Temperature** 0 ~ 60° C (32 ~ 140° F)
- **Storage Temperature** -10 ~ 70° C (14 ~ 158° F)
- **Operating Humidity** 20 ~ 95% (non-condensing)
- **Storage Humidity** 0 ~ 95% (non-condensing)
- **MTBF** 230,000 hours

Certifications

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

Ordering Information

- **EKI-6538** 8-port Industrial 10/100 Mbps Smart Ethernet Switch