EKI-6538

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



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_{pc} 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_{nc}), 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

10/100Base-TX LAN

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

Push button for port diagnostic Diagnostics

Port Mirroring

Real-time traffic statistic

IEEE 802.1Q tagged VLAN VLAN

Port-based VLAN

Web browser and RS-232 console management Configuration

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

2 x Unregulated 10 ~ 48 V_{DC} Power Input

 Fault Output Present

Protection

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

Environment

• Operating Temperature $0 \sim 60^{\circ} \text{ C} (32 \sim 140^{\circ} \text{ F})$ • Storage Temperature $-10 \sim 70^{\circ} \text{ C } (14 \sim 158^{\circ} \text{ F})$ 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 U.S.A.: FCC Part 15 CISPR 22 EMC EU: EN55011

EN55022 Class A, EN61000-3-2/3 FN55024

IEC61000-4-2/3/4/5/6/8/11

Ordering Information

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