EKI-6538

8-port 10/100 Mbps Industrial Smart Ethernet Switch

Features

- Provides push button for port diagnostic
- Supports web browser configuration and RS-232 console
- 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 two individual +10 ~ 48 V_{DC} power inputs
- Supports operating temperatures from 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**: Up to 100 m
- **Transmission Speed**: Up to 100 Mbps

Interface

- **Connectors**: 8 x RJ-45 (Ethernet)
  7-pin removable screw terminal (power)
  5-pin removable screw terminal (DI/O)
- **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, RS-232 console, Speed/duplex auto-negotiation
- **Security**: MAC-based security per port
- **Traffic Control**: IEEE 802.3ad Link Aggregation
  Rate limit and storm control
  IEEE 802.1p QoS
  IEEE 802.3x flow control

Power

- **Power Consumption**: Max. 7 W
- **Power Input**: 2 x Unregulated 10 ~ 48 V_{DC}
- **Fault Output**: 1 Relay Output

Mechanism

- **Dimensions (W x H x D)**: 46 x 162 x 126 mm
- **Enclosure**: IP30, ABS+PC with solid mounting kits
- **Mounting**: DIN 35 rail, Wall

Protection

- **ESD (Ethernet)**: 4,000 V_{DC}
- **Surge (EFT for power)**: 3,000 V_{DC}
- **Power Reverse**: YES
- **Overload**: 4 A/125 V Replaceable Fuse

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 ~ 9 5% (non-condensing)
- **MTBF**: 230,000 hrs

Certifications

- **Safety**: UL 60950-1, CAN/CSA-C22.2 No.60950
- **EMC**: 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

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