EKI-6558TI
EKI-6559TMI

8-port M12 IP67 Managed Industrial Ethernet Switch with Wide Temperature

8-port M12 + 2-port Fiber Optic IP67 Managed Industrial Ethernet Switch with Wide Temperature

NEW

EKI-6558TI   EKI-6559TMI

RoHS COMPLIANT 2002/95/EC   CE   FCC   cULus LISTED E180881 I.T.E.

Features

- Backplane (Switching Fabric): 2 Gbps
- Supports X-Ring function (ultra high-speed recovery time <10ms)
- Wide redundant power design
- Provides M12 connector with IP67 protection
- Provides Waterproof fiber optic connector
- TFTP firmware updates and system configure restore and backup
- Dual 12 ~ 48 V_{DC} power input and 1 relay output
- Supports wide operating temperature -40~ 75° C
- Provides 100Mbps LC type connector

Introduction

EKI-6558TI and EKI-6559TMI are cost effective IP67 grade industrial switches. M12 connectors secure highly reliable connectivity for industrial communication applications. EKI-6559TMI provides two additional fiber optic ports to extend communication range. Both EKI-6558TI and EKI-6559TMI provide Advantech's X-Ring protocol, which enables users to establish a redundant Ethernet network with ultra high-speed recovery (less than 10ms). They also support advanced network standards to optimize network performance, reduce maintenance cost, and secure network safety.

Specifications

Communications

- **Standard**   IEEE802.3, IEEE802.3u, IEEE802.3x, IEEE802.3ad, IEEE802.1d, IEEE802.1w, IEEE802.1p, IEEE802.1Q, IEEE802.1x
- **LAN**   10/100Base-T(X), 100Base-FX
- **Transmission Speed**   Up to 100Mbps

Interface

- **Ethernet**   M12, 4-pole D-coded, Female x 8
- **Fiber Optic**   LC type waterproof x 2
- **Console**   M12, 8-pole A-coded, Female x 1

Network Management

- **Configuration**   Web browser, Telnet, Serial console, TFTP, SNMPv1/v2c/v3, Port Speed/Duplex Configuration
- **VLAN**   IEEE 802.1Q, GVRP, Port-based VLAN
- **Redundancy**   Advantech X-Ring (Recovery time < 10ms at 30pcs full loading ring structure), Dual Homing, Couple Ring, 802.1w/D RSTP/STP
- **Security**   IP Access security, port security, DHCP Server, Port and IP Binding, 802.1X Port Access Control
- **Traffic Control**   IGMP Snooping/Query for multicast group management Port Trunking, Static/802.3ad LACPRate limit and storm control IEEE 802.1p QoS CoS/TOS/DSCP priority queuing IEEE 802.3x flow control
- **Diagnostics**   Port Mirroring, Real-time traffic statistic, MAC Address Table, SNTP, Syslog, Email Alert, SNMP Trap, RMON

Mechanism

- **Enclosure**   IP67, aluminum shell with solid mounting kits
- **Dimensions (W x H x D)**   193 x 176 x 62.5 mm
- **Mounting**   Wallmount

Power

- **Power Consumption**   8.1W Max. @ 48 V_{DC}
- **Power Input**   12 ~ 48 V_{DC}, redundant dual inputs
- **Power Connector**   M12, 5-pole A-coded, male x 1
- **P-Fail Output**   1A @ 24 V_{DC}
- **P-Fail Connector**   M12, 8-pole A-coded, Female x 1

Protection

- **Power Reverse**   Present

Environment

- **Operating Temperature**   -40 ~ 75° C (-40 ~ 167° F)
- **Storage Temperature**   -40 ~ 85° C (-40 ~ 185° F)
- **Operating Humidity**   5 ~ 95% (non-condensing)
- **Storage Humidity**   0 ~ 95% (non-condensing)

Certifications

- **Safety**   UL 508
- **EMC**   EU: EN55011, EN61000-6-4 EN55022 Class A EN55024, IEC61000-4-2/3/4/5/6/8 EN61000-6-2
- **Shock**   IEC60068-2-27
- **Freefall**   IEC60068-2-32
- **Vibration**   IEC60068-2-6

Ordering Information

- **EKI-6558TI**   8-port M12 IP67 Managed Ethernet Switch
- **EKI-6559TMI**   8-port M12 + 2 Fiber IP67 Managed Ethernet Switch