

# EKI-6558TI

# EKI-6559TMI

**EN50155 IP67 8-port M12 Managed Ethernet Switch with Wide Temperature**

**EN50155 IP67 8-port M12 + 2-port Fiber Optic Managed Ethernet Switch with Wide Temperature**



## Features

- EN50155 certified
- 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<sub>DC</sub> 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 EN50155 certified IP67 wide temperature industrial switches which are especially designed for railway industry and harsh environments. M12 connectors secure highly reliable connectivity for industrial communication applications. EN50155 certification ensures the use of railway application. EKI-6559TMI also 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 LACP/Rate 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, SNMP, 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<sub>DC</sub>
- **Power Input** 12 ~ 48 V<sub>DC</sub>, redundant dual inputs
- **Power Connector** M12, 5-pole A-coded, male x 1
- **P-Fail Output** 1A @ 24 V<sub>DC</sub>
- **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
- **Railway** EN50155, EN50121-3-2, EN50121-4

## Ordering Information

- **EKI-6558TI** EN50155 8-port M12 Managed Ethernet Switch
- **EKI-6559TMI** EN50155 8-port M12+2 Managed Ethernet Switch