

EKI-2548SI/MI

EKI-2548I

6Tx+2 Fiber Optic Managed Ethernet Switches with Wide Temperature

8Tx Managed Ethernet Switch with Wide Temperature



Features

- All Fast Ethernet ports for 8 Copper (EKI-2548I)
- 6 Copper + 2 Fiber Optic (EKI-2548SI/MI)
- Redundancy: Advantech X-Ring, Dual Homing, Couple Ring, and RSTP/STP (802.1w/1d)
- Configuration: SNMP v1/v2c, Web
- Backplane (Switching Fabric): 1.6Gbps
- Dual 12 ~ 48VDC power input and 1 relay output
- Supports wide operating temperature -40 ~ 75° C
- DIP switch for configure port alarm and enable Ring master



Introduction

EKI-2548I and EKI-2548SI/MI is a cost effective managed industrial Ethernet switch which supports Fast Ethernet. To enhance reliability in industrial communication network, it equipped with Advantech owned redundant network protocol -- X-Ring, which provides users with an easy way to establish a redundant Ethernet network with ultra high-speed recovery time less than 10 ms. Furthermore, EKI-2548I and EKI-2548SI/MI also support advanced network standards to optimize network performance, reduce maintenance cost, and secure network safety.

Specifications

Communications

- **Standard** IEEE 802.3, 802.3u, 802.3x, 802.1d, 802.1w, 802.1p, 802.1Q
- **LAN** 10/100Base-TX
- **Transmission Distance** Ethernet : Up to 100m
Multi-mode Fiber: Up to 2km (EKI-2548MI)
Single-mode Fiber: Up to 30km (EKI-2548SI)
- **Transmission Speed** Up to 100Mbps

Interface

- **Connectors** 8 x RJ45 ports (EKI-2548I)
6 x RJ45 ports + 2xSC type fiber optic (EKI-2548SI/MI)
- **LED Indicators** System: PWR1, PWR2, P-Fail, R-Master
Ethernet port: Link/Activity, Speed
Fiber port: Link/Activity
- **Reset Button** Reset and restore to factory default

Network Management

- **Configuration** SNMP v1/v2c, Web
- **VLAN** IEEE 802.1Q, Port based VLAN
- **Redundancy** Advantech X-Ring, Dual Homing, Couple Ring, IEEE802.1d STP, and IEEE802.1w RSTP
- **Security** IP access security
- **Traffic Control** IGMP Snooping/Query for multicast group management, rate limit and storm control
- **Diagnostics** Port Mirroring, SNMP, Syslog, SNMP Trap, Email Alert

Mechanism

- **Enclosure** IP30, metal shell with solid mounting kits
- **Dimensions (W x H x D)** 59.6 x 152 x 105 mm
- **Mounting** DIN-rail, Wall

Power

- **Power Consumption** 7.6 W max. @ 12 V_{DC}; 6.3 W max. @ 24 V_{AC} / 60Hz (EKI-2548I)
10.6 W max. @ 12 V_{DC}; 9.5 W max. @ 24 V_{AC} / 60Hz (EKI-2548SI/MI)
- **Power Input** 12 ~ 48 V_{DC}, 24VAC (18~30 V_{AC})
- **Fault Output** 1 Relay Output, 1A @ 24 V_{DC}

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** 5 ~ 95% (non-condensing)
- **MTBF** 215,266 hrs (EKI-2548I)
337,238 hrs (EKI-2548MI)

Certifications

- **Safety** UL 508; Class I, Division 2
- **EMC** CE, FCC Class A
EN61000-3-2/3, IEC61000-4-2/3/4/5/6/8/11, EN61000-6-2/4
- **Shock** IEC60068-2-27
- **Freefall** IEC60068-2-32
- **Vibration** IEC60068-2-6

Ordering Information

- **EKI-2548SI** 6Tx + 2 SM Managed Ethernet Switch w/ Wide Temp
- **EKI-2548MI** 6Tx + 2 MM Managed Ethernet Switch w/ Wide Temp
- **EKI-2548I** 8Tx Managed Ethernet Switch w/ Wide Temp