EKI-7559SI/MI

8+2 SC Type Fiber Optic Managed **Industrial Ethernet Switch with Wide Temperature**



Features

- 2 x SC type fiber ports, plus 8 Fast Ethernet ports
- Redundancy: X-Ring (ultra high-speed recovery time<10ms), RSTP/STP (802.1w/1D)
- Management: Web, Telnet, Serial Console, SNMP
- Control: VLAN/GVRP, QoS, IGMP Snooping/Query, LACP, Rate Limit
- Security: IP/MAC and port binding, DHCP Server, IP access list, 802.1X,
- Diagnostic: Port Statistic, Port Mirroring, RMON, Trap, Email Alert, Syslog
- Dual 12 ~ 48 V_{DC} power input and 1 relay output
- Supports wide operating temperature -40 ~ 75° C



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Ethernet Switches 0

Device Servers

Serial Comm. Card

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Introduction

EKI-7559SI/MI supports 8 Fast Ethernet ports and 2 SC type fiber optic ports. To create reliability in your network, the EKI-7559SI/MI comes equipped with a proprietary redundant network protocol -- X-Ring that was developed by Advantech, 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-7559SI/MI also supports many advanced network standards to optimize network performance, ease maintenance issues, and secure network safety.

Specifications

Communications

Standard IEEE802.3, IEEE802.3u, IEEE802.3z, IEEE802.3x,

IEEE802.3ad, IEEE802.1d, IEEE802.1w, IEEE802.1p,

IEEE802.1Q, IEEE802.1x

- LAN 10/100Base-T(X), 100Base-FX

Ethernet: Up to 100m Transmission Distance

Multi-mode Fiber: Up to 2km (EKI-7559MI)

Single-mode Fiber: Up to 30km (EKI-7559SI)

 Transmission Speed Up to 100Mbps

Interface

Connectors 8 x RJ-45 ports

2 x SC-type fiber-optic connectors

 LED Indicators System: PWR, PWR1, PWR2, R.M., P-Fail

10/100T(X): Link/Activity, Duplex/Collision

RS-232 (RJ-45) Console

Network Management

Traffic Control

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

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 IP30, metal shell with solid mounting kits

Dimensions (W x H x D) 79 x 152 x 105 mm

DIN-rail, wall Mounting

Power Consumption Max. 8.4W (EKI-7559MI/SI) Power Input 12~ 48 V_{DC}, redundant dual inputs

Fault Output 1 Relay Output

Protection

Power Reverse

Overload 3.5 A @ 12 V_{DC} (Fuse) (EKI-7559MI/SI)

Environment

Operating Temperature $-40 \sim 75^{\circ} \text{ C} (-40 \sim 167^{\circ} \text{ F})$ Storage Temperature -40 ~ 85° C (-40 ~ 185° F) **Operating Humidity** 5 ~ 95% (non-condensing) Storage Humidity 0 ~ 95% (non-condensing)

MTBF 284,409 hours

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, EN61000-6-2

Shock IEC60068-2-27 IEC60068-2-32 Freefall Vibration IEC60068-2-6

Ordering Information

EKI-7559SI 8+2 SM Fiber Managed Ethernet Switch w/Wide Temp EKI-7559MI 8+2 MM Fiber Managed Ethernet Switch w/Wide Temp