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, SNMPv3
- 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

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 LAN Transmission Distance	IEEE802.3, IEEE802.3u, IEEE802.3z, IEEE802.3x, IEEE802.3ad, IEEE802.1d, IEEE802.1w, IEEE802.1p, IEEE802.1Q, IEEE802.1x 10/100Base-T(X), 100Base-FX Ethernet : Up to 100m 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
•	Console	RS-232 (RJ-45)
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 IP30, metal shell with solid mounting kits

Max. 8.4W (EKI-7559MI/SI)

- Dimensions (W x H x D) 79 x 152 x 105 mm
- Mounting DIN-rail, wall

Power

- Power Consumption
 - Power Input 12~ 48 V_{DC}, redundant dual inputs
 - 1 Relay Output

Protection

- 4,000 V_{DC} ESD (Ethernet)
- Surge (EFT for Power) 3,000 V_{DC}
 - 3.5 A @ 12 V_{DC} (Fuse) (EKI-7559MI/SI)
- Overload

Environment

- Operating Temperature -40 ~ 75° C
- Storage Temperature -40 ~ 85° C
- **Operating Humidity** 5 ~ 95% (non-condensing)
 - 0~95% (non-condensing)
 - 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 Freefall IEC60068-2-32 Vibration IEC60068-2-6

Ordering Information

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

- - Fault Output

- **Power Reverse** Present

- - **Storage Humidity**
 - MTBF