EKI-7712E-4F EKI-7712E-4FI

8FE+4SFP Port Gigabit Managed **Redundant Industrial Switch**



Features

- 8 Fast Ethernet ports + 4 SFP ports
- SFP socket for Easy and Flexible Fiber Expansion
- Redundancy: X-Ring Pro (ultra high-speed recovery time < 20 ms), RSTP/STP (802.1w/1D)
- IXM function enables fast deployment
- Security: 802.1x (Port-Based, MD5/TLS/TTLS/PEAP Encryption), RADIUS
- Management: SNMP v1/v2c/v3, WEB, Telnet, Standard MIB, Private MIB
- NEMA TS2 for Traffic Control
- EN50121-4 approval for Railway trackside deployment
- -40 ~ 75°C wide-range operating temperature (EKI-7712E-4FI)
- Dual 12~48 V_{DC} power input and 1 relay output

Introduction

EKI-7712E-4F/4FI supports 8 Fast Ethernet ports and 4 SFP (mini-GBIC) ports. It can provide users abundant ports to connect many devices. Besides, it is embedded with Advantech IXM function, this can benefit users for fast deployment and can dramatically save engineers time and costs. The EKI-7712E series also supports NMS to help IT managers with networking maintenance and failure prevention. Finally, the EKI-7712E series is equipped with X-Ring Pro which can achieve ultra high speed recovery time of less than 20 ms to ensure network stability. The switch also features a wide -40° to 75°C operating temperature(EKI-7712G-4FI) and NEMA TS2 rating, making the switch an ideal solution for use in traffic application and have successfully passed the EN50121-4 European railway standard requirements of emission and immunity for railway platforms and trackside deployment.

Specifications

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I/O Port 8 x 10/100Base-T/TX RJ-45 4 x SFP (mini-GBIC) port Console port RS-232 (RJ45)

 Power Connector 6-pin screw Terminal Block (including relay)

Physical

 Enclosure Metal Shell Protection Class IP 30 Installation DIN-Rail

Dimensions (W x H x D) 74 x 152 x 105 mm (2.91" x 5.98" x 4.13")

LED Display

System LED PWR1, PWR2, SYS, Alarm and R.M. Port LED Link / Speed / Activity

Environment

 Operating Temperature -40 ~ 75°C (-40 ~ 167°F) (7712E-4FI) -10 ~ 60°C (-40 ~ 140°F) (7712E-4F) Storage Temperature -40 ~ 85°C

Ambient Relative Humidity

10 ~ 95% (non-condensing) 10 ~ 95% (non-condensing) Humidity

- Power Consumption 12.1W @ 48V_{DC} (System)

 Power Input 12~48 VDC, redundant dual power input

 Fault Output 1 Relay Output

Certification

= EMI CE, FCC Class A UL61010-2-201 Safety IEC60950* EN 61000-4-2 EMC EN 61000-4-3 EN 61000-4-4 EN 61000-4-5 EN 61000-4-6 EN 61000-4-8 EN50121-4* Shock IEC 60068-2-27 Freefall IEC 60068-2-32 Vibration IEC 60068-2-6

*= Compliant

L2 Features

Traffic control

 L2 MAC Address 8K Jumbo Frame 9216 Bytes

 VLAN Group 256 (VLAN ID 1~4094)

 VLAN Arrange Port based VLAN, Q-in-Q (VLAN Stacking), GVRP

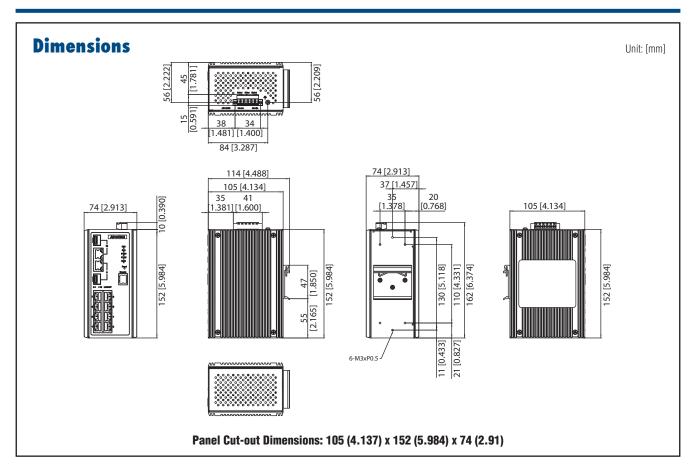
NEMA TS2*

Port Mirroring Per port, Multi-source port, **IP Multicast** IGMP Snooping v1/v2/v3, MLD

Snooping, IGMP Immediate leave Storm Control Broadcast, Multicast, Unknown unicast Redundancy

IEEE 802.1D-STP, IEEE 802.1s-MSTP, IEEE 802.1w-RSTP, X-Ring Pro, with ultra high-speed

recovery time less than 20ms



QoS

 Priority Queue WRR (Weighted Round Robin), SP (Strict Scheduling Scheduling Priority) Hybrid Priority

Class of Service IEEE 802.1p Based CoS, IP TOS, DSCP based CoS Rate Limiting Ingress Rate limit, Egress Rate limit

 Link Aggregation IEEE 802.3ad Dynamic Port Trunking, Static Port Trunking

Security

Port Security Static, Dynamic

802.1x (Port-Based, MD5/TLS/TTLS/PEAP Encryption) Authentication

Management

- DHCP Client, Server, Option66/67/82

SNMP v1/v2c/v3, WEB, Telnet, RMON, Standard MIB, Access

Private MIB

 Security access SSH2.0, SSL

- Software upgrade TFTP, HTTP, Dual Image

NTP SNTP client

Ordering Information

EKI-7712E-4FI-AE 8FE + 4SFP Port Managed Ethernet Switch w/Wide

Temp

EKI-7712E-4F-AE 8FE + 4SFP Port Managed Ethernet Switch