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
- Support Security Pack to against internal and external cyber threats









Introduction

EKI-7712E-4F/4FI provides abundant ports to connect to many devices with 8 Fast Ethernet ports and 4 SFP (mini-GBIC) ports. It is embedded with Advantech's IXM function for fast deployment, which can dramatically save engineers time and cost. 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 times 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 applications. EKI-7712G-4F/4FI has successfully passed the EN50121-4 European railway standard requirements for emissions and railway platform and trackside deployment.

Specifications

Interface

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

 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) Humidity 10 ~ 95% (non-condensing)

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

 Power Input 12 ~ 48 V_{DC}, redundant dual power input

 Fault Output 1 Relay Output

Certification

= FMI CE. FCC Class A UL61010-2-201 Safety IEC60950* EMC EN 61000-4-2 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 Vihration IEC 60068-2-6 Traffic control NEMA TS2*

*= Compliant

L2 Features

 L2 MAC Address 8K Jumbo Frame 9216 Bytes

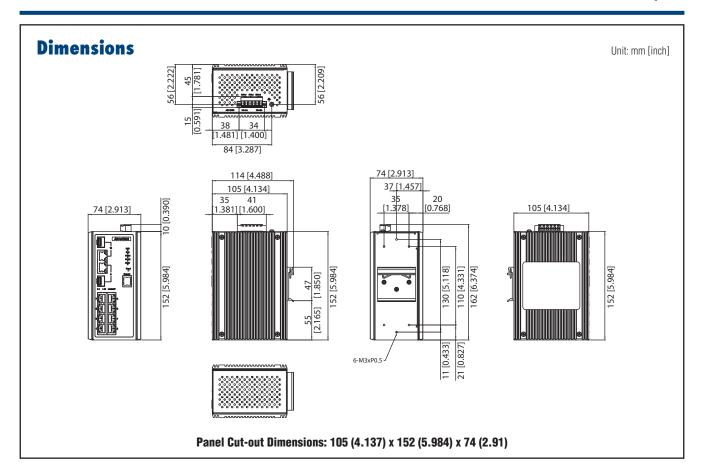
 VLAN Group 256 (VLAN ID 1 ~ 4094)

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

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

Storm Control Broadcast, Multicast, Unknown unicast IEEE 802.1D-STP. IEEE 802.1s-MSTP. IEEE Redundancy 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 Ingress Rate limit, Egress Rate limit Rate Limiting

Link Aggregation IEEE 802.3ad Dynamic Port Trunking, Static Port

Trunking

Security

Port Security Static, Dynamic IP Source Guard, ARP Spoofing Prevention, Access Control List, DHCP Snooping,

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

Management

DHCP Client, Server, Option66/67/82

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

Private MIB SSH2.0, SSL

 Security access TFTP, HTTP, Dual Image Software upgrade

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