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
- Wide operating temperature of -40 ~ 75°C (EKI-7712E-4FI)
- Dual 12 ~ 48 V_{DC} power input and 1 x relay output







Introduction

The EKI-7712E-4F and EKI-7712E-4FI provide abundant port options for connecting to various different device types, with 8 fast Ethernet ports and 4 SFP (mini-GBIC) ports. These units are embedded with Advantech's IXM function for fast deployment, which can dramatically save on engineering time and costs. The EKI-7712E series also support NMS to help IT managers with networking maintenance and failure prevention. Finally, the series are equipped with X-Ring Pro, which can achieve ultra-high-speed recovery times of <20 ms, thus ensuring network stability. The EKI-7712G-4FI features a wide operating temperature of -40 to 75°C and NEMA TS2 rating, making it ideal for use in traffic applications. Both switches comply with 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 · 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

-40 ~ 75 °C (-40 ~ 167 °F) (7712E-4FI) Operating Temperature -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

 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 IFC 60068-2-32 Vibration IEC 60068-2-6 Traffic control NEMA TS2*

*= Compliant

L2 Features

 L2 MAC Address Jumbo Frame 9216 Bytes

 VLAN Group 256 (VLAN ID 1 ~ 4094)

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

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

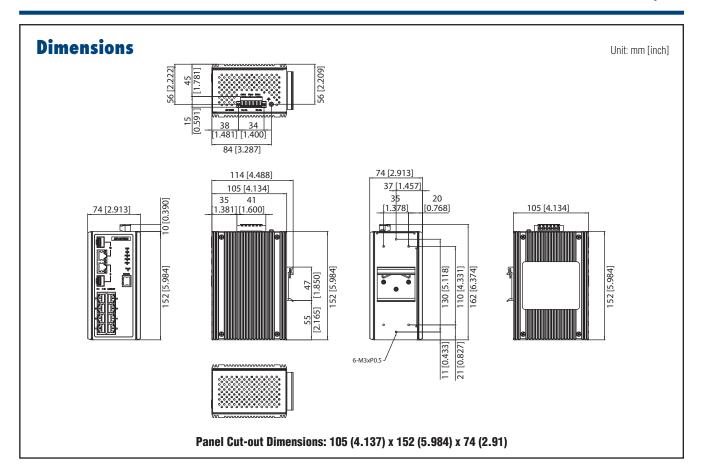
recovery time less than 20ms

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EKI-7712E-4F/4FI



QoS

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

Priority (University of Priority), SP (Strict Scheduling)

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 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

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

iemp

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

