

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

- **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

- **Power Consumption** 12.1W @ 48V_{DC} (System)
- **Power Input** 12 ~ 48 V_{DC}, redundant dual power input
- **Fault Output** 1 Relay Output

Certification

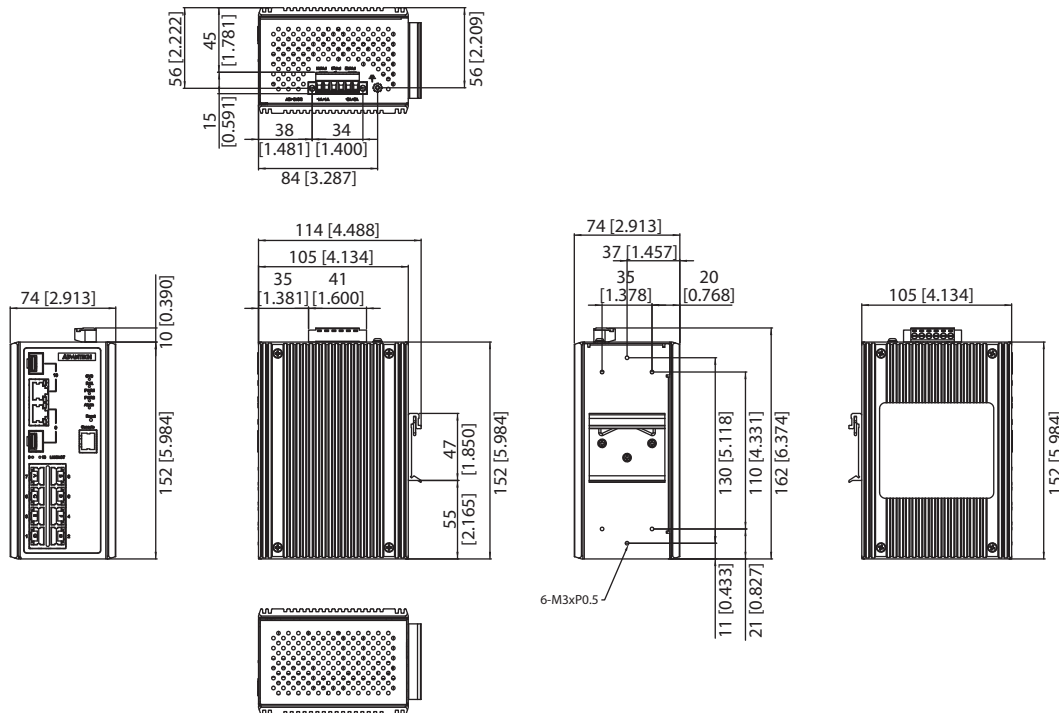
- **EMI** CE, FCC Class A
 - **Safety** UL61010-2-201
IEC60950*
 - **EMC** EN 61000-4-2
EN 61000-4-3
EN 61000-4-4
EN 61000-4-5
EN 61000-4-6
EN 61000-4-8
EN50121-4*
 - **Shock** IEC 60068-2-27
 - **Freefall** IEC 60068-2-32
 - **Vibration** IEC 60068-2-6
 - **Traffic control** NEMA TS2*
- *= Compliant

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 Mirroring** Per port, Multi-source port, IGMP Snooping v1/v2/v3, MLD Snooping, IGMP Immediate leave
- **IP Multicast** Broadcast, Multicast, Unknown unicast
- **Storm Control** IEEE 802.1D-STP, IEEE 802.1s-MSTP, IEEE 802.1w-RSTP, X-Ring Pro, with ultra high-speed recovery time less than 20ms
- **Redundancy**

Dimensions

Unit: mm [inch]



Panel Cut-out Dimensions: 105 (4.137) x 152 (5.984) x 74 (2.91)

QoS

- **Priority Queue** WRR (Weighted Round Robin), SP (Strict Scheduling Priority) Hybrid Priority
- **Scheduling** IEEE 802.1p Based CoS, IP TOS, DSCP based CoS
- **Class of Service** Ingress Rate Limit, Egress Rate Limit
- **Rate Limiting** IEEE 802.3ad Dynamic Port Trunking, Static Port Trunking
- **Link Aggregation**

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



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