EKI-7712G-4F EKI-7712G-4FI

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



Features

- 8 x Gigabit ports + 4 x SFP ports
- SFP socket for easy and flexible fiber expansion
- Redundancy: X-Ring Pro (ultra-high-speed recovery time, <20 ms), RSTP/STP
- IXM function enables fast deployment
- Security: 802.1x (port-based, MD5/TLS/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 range of -40 ~ 75°C (EKI-7712G-4FI)
- Dual 12 ~ 48 V_{DC} power input and 1 x relay output





Introduction

The EKI-7712G-4F and EKI-7712G-4FI provide users with abundant port options for connecting to a range of different device types with 8 Gigabit ports and 4 SFP (mini-GBIC) ports. These units are embedded with Advantech's IXM function, which can benefit users with fast deployment and can save considerably on engineering time and costs. The EKI-7712G 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-highspeed recovery times of <20 ms, thus ensuring network stability. The EKI-7712G-4FI also features a wide operating temperature of -40 to 75°C and NEMA TS2 rating, making it ideal for use in traffic applications. Both the EKI-7712G-4F and EKI-7712G-4Fl comply with EN50121-4 European railway standard requirements for emissions and railway platform and trackside deployment.

Specifications

Interface

 I/O Port 8 x 10/100/1000BASE-T/TX RJ-45 4 x SFP (mini-GBIC) port Console port RS-232 (RJ45)

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

Physical

 Enclosure Metal Shell Protection Class IP 30 DIN-Rail Installation

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) (7712G-4FI) Operating Temperature -10 ~ 60°C (-40 ~ 140°F) (7712G-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 $12 \sim 48 \ V_{DC}$, redundant dual power input

 Fault Output 1 Relay Output

Certification

- EMI 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 FN 61000-4-6 EN 61000-4-8

EN50121-4* Shock IFC 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. IP Multicast IGMP Snooping v1/v2/v3, MLD Snooping, IGMP Immediate leave Storm Control

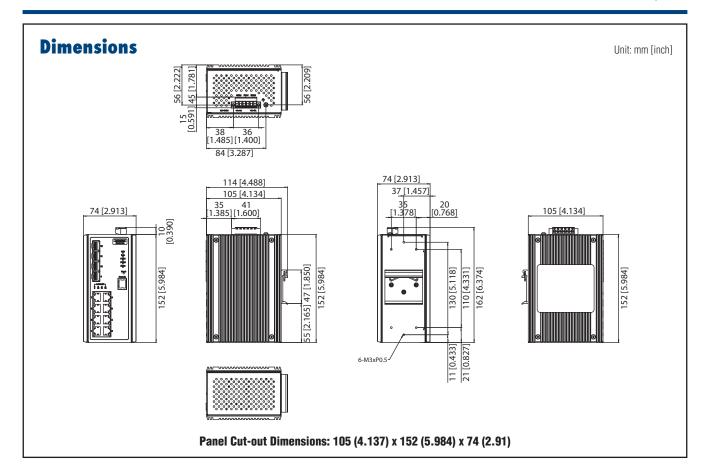
Broadcast, Multicast, Unknown unicast Redundancy IEEE 802.1D-STP, IEEE 802.1s-MSTP, IEEE 802.1w-RSTP, X-Ring Pro, with ultra high-speed recovery time less than 20ms

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EKI-7712G-4F/4FI



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

IEEE 802.3ad Dynamic Port Trunking, Static Port Link Aggregation

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

TFTP, HTTP, Dual Image Software upgrade

NTP SNTP client

Ordering Information

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

■ EKI-7712G-4F-AE

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