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

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



Features

- 8 Gigabit 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-7712G-4FI)
- Dual 12 ~ 48 V_{DC} power input and 1 relay output
- Support Security Pack to against internal and external cyber threats











Introduction

EKI-7712G-4F/4FI provides users with abundant ports to connect to many devices with 8 Gigabit ports and 4 SFP (mini-GBIC) ports. It is embedded with Advantech's IXM function, which can benefit users for fast deployment and can dramatically save engineers time and cost. The EKI-7712G series also support NMS to help IT managers with networking maintenance and failure prevention. Finally, the EKI-7712G 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 applications. EKI-7712G-4F/4FI has successfully passed the EN50121-4 European railway standard requirement for emissions and railway platform and trackside deployment.

Specifications

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8 x 10/100/1000Base-T/TX RJ-45 I/O Port 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) (7712G-4FI) -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 ~ 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 FN 61000-4-4 EN 61000-4-5 EN 61000-4-6 EN 61000-4-8 EN50121-4* Shock IEC 60068-2-27 IEC 60068-2-32 Freefall Vibration IEC 60068-2-6 Traffic control NEMA TS2*

*= Compliant

L2 Features

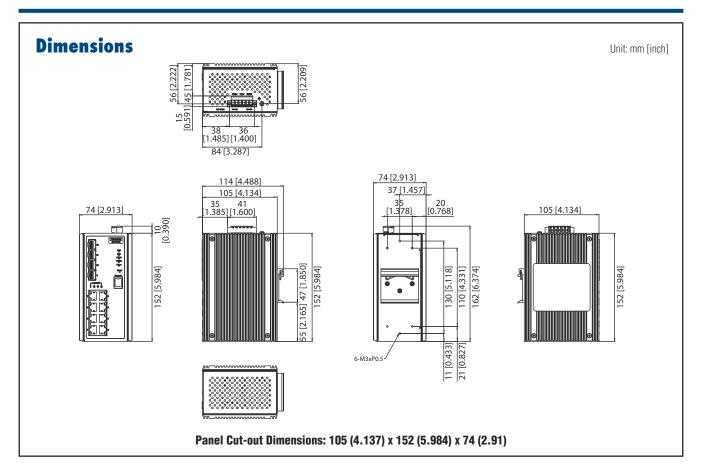
 L2 MAC Address Jumbo Frame 9216 Bytes **VLAN Group** 256 (VLAN ID 1 ~ 4094)

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

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

Temp

■ EKI-7712G-4F-AE 8GE + 4SFP Port Managed Ethernet Switch