# **EKI-7712G-4FMPI**

# 6G PoE + 2G 90W PoE + 4G SFP Ports**Gigabit Managed Redundant Industrial** PoE Switch



## **Features**

- Support 2 IEEE 802.3bt class 8 90W and 6 IEEE 802.3af/at PoE ports
- 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/PEAP encryption), RADIUS
- Management: SNMP v1/v2c/v3, WEB, Telnet, standard MIB, private MIB
- NEMA TS-2 for traffic control
- EN50121-4 approval for railway trackside deployment
- -40 ~ 70°C wide-range operating temperature
- Dual 53 ~ 57 V<sub>DC</sub> power inputs and 1 x relay output

# Introduction

The EKI-7712G-4FMPI is a next generation PoE switch which supports IEEE 802.3bt Class 8 90W PoE for high-powered application. Combined with 6 x IEEE 802.3af/at PoE Gigabit ports, 2 x IEEE 802.3bt PoE Gigabit ports, and 4 x SFP ports, EKI-7712G-4FMPI provides multiple usages for different scenarios. The EKI-7712G-4FMPI is embedded with Advantech's IXM function, which can benefit users with fast deployment and can save considerably engineering time and costs, It also supports NMS to help IT managers with networking maintenance and failure prevention. It is also equipped with X-Ring Pro, which can achieve ultra-high-speed recovery times of <20 ms to ensure network stability.

# **Specifications**

## **Communication**

Standard IEEE 802.3, 802.3u, 802.3x, 802.3z, 802.1D, 802.1w, 802.1p, 802.1Q, 802.1X, 802.3ad,

- LAN 10/100/1000Base-T (X), Optional 100Base-FX,

1000Base-SX/LX/LHX/XD/ZX/EZX

### Interface

I/O Port 8 x 10/100/1000BASE-T/TX RJ-45 4 x SFP (mini-GBIC) port PoE Port 1 ~ Port 6: IEEE 802.3at/af (Up to 30W per port) Port 7 ~ Port 8: IEEE 802.3bt (Up to 90W per 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, Wall-mount kit

Dimensions (W x H x D) 97 x 152 x 105 mm (3.819" x 5.984" x 4.134")

# **LED Display**

System LED PWR1. PWR2. SYS. Alarm and R.M.

Port LED Link / Speed / Activity

#### **Environment**

 Operating Temperature -40 ~ 70°C (-40 ~ 158°F) Storage Temperature -40 ~ 85°C (-40 ~ 185°F) Ambient Relative Humidity 10 ~ 95% (non-condensing) Humidity 10 ~ 95% (non-condensing)

## **Power**

Power Consumption 12W @ 55V<sub>DC</sub> (System) Power Input 53 ~ 57V<sub>DC</sub> for 802.3at/af  $55 \sim 57V_{DC}$  for 802.3bt

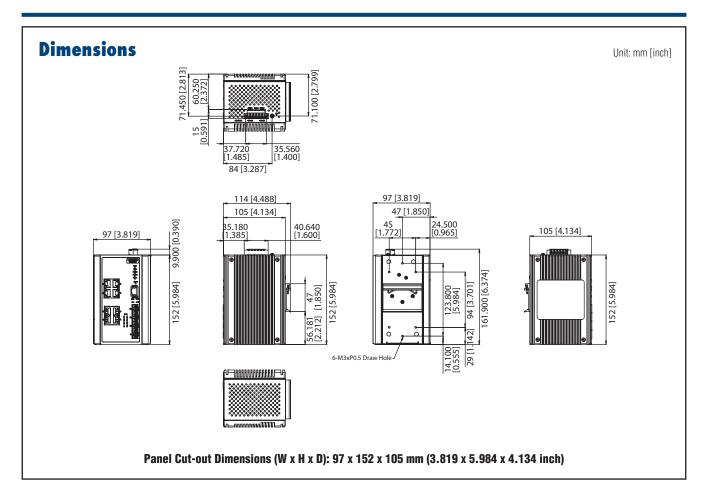
 Power Budget Fault Output 1 Relay Output

#### Certification

Safety UL 62368-1 EMI CE, FCC Class A EN 61000-4-2 EMS EN 61000-4-3 EN 61000-4-4 EN 61000-4-5 EN 61000-4-6 EN 61000-4-8 IEC 60068-2-27

Shock Freefall IEC 60068-2-32 Vibration IEC 60068-2-6 Traffic control NEMA TS-2 Railway Track Side EN50121-4

Patent http://www.advantech.com/legal/patent



## **L2 Features**

L2 MAC Address 8KJumbo Frame 9216 Bytes

■ **VLAN Group** 256 (VLAN ID 1 ~ 4094)

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

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

Snooping, IGMP Immediate leave Broadcast, Multicast, Unknown unicast

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

Security access SSH2.0, SSL

Software upgrade TFTP, HTTP, Dual Image

NTP SNTP client

# **Ordering Information**

• EKI-7712G-4FMPI-AE 6G PoE + 2G 90W PoE + 4G SFP PoE Managed Switch w/Wide Temp

Note: For SFP copper type, only 1000Mbps supported.

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