# EKI-7712G-4FMPI

## 6G PoE + 2G Mega PoE + 4G SFP Port Gigabit Managed Redundant Industrial Mega PoE Switch



#### **Features**

- Support IEEE 802.3bt Class 8 90W Mega PoE, 6 x IEEE 802.3 af/at PoE Gigabit ports + 2 x IEEE 802.3 bt PoE 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 ~ 70°C wide-range operating temperature
- Dual 48  $V_{\mbox{\scriptsize DC}}$  power input 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 802.3 af/at PoE Gigabit ports, 2 x 802.3 bt PoE Gigabit ports, 2 x 802.3 bt PoE Gigabit ports, and 4 x SFP ports, EKI-7712G-4FMPI provides multiple usage for different scenario. 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. The series are also equipped with X-Ring Pro, which can achieve ultra-high-speed recovery times of <20 ms to ensure network stability.

Certification

# **Specifications**

#### Interface

Interface		Gertification	
= I/O Port	8 x 10/100/1000BASE-T/TX RJ-45	<ul><li>Safety</li><li>EMI</li></ul>	UL 61010 CE, FCC Class A
<ul><li>Console port</li><li>Power Connector</li></ul>	4 x SFP (mini-GBIC) port RS-232 (RJ45) 6-pin screw Terminal Block (including relay)	• EMS	EN 61000-4-2 EN 61000-4-3 EN 61000-4-4
Physical - Enclosure - Protection Class - Installation - Dimensions (W x H x D)	Metal Shell IP 30 DIN-Rail 97 x 152 x 105 mm (3.819" x 5.984" x 4.134")	<ul> <li>Shock</li> <li>Freefall</li> <li>Vibration</li> </ul>	EN 61000-4-5 EN 61000-4-6 EN 61000-4-8 IEC 60068-2-27 IEC 60068-2-32 IEC 60068-2-6
LED Display System LED Port LED	PWR1, PWR2, SYS, Alarm and R.M. Link / Speed / Activity	<ul> <li>Traffic control</li> <li>Railway Track Side</li> <li>Patent</li> </ul>	NEMA TS2 EN 50121-4 http://www.advantech.com/legal/patent
Environment • Operating Temperature • Storage Temperature • Ambient Relative Humidity • Humidity	-40 ~ 70°C (-40 ~ 158°F) -40 ~ 85°C 10 ~ 95% (non-condensing) 10 ~ 95% (non-condensing)	L2 Features L2 MAC Address Jumbo Frame VLAN Group VLAN Arrange Port Mirroring	8K 9216 Bytes 256 (VLAN ID 1 ~ 4094) Port based VLAN, Q-in-Q (VLAN Stacking), GVRP Per port, Multi-source port,
Power Power Consumption Power Input Power Budget Fault Output	$20W @ 48V_{DC}$ (System) 48 V <sub>DC</sub> (46 to 57 V <sub>DC</sub> ), 53 -57 V <sub>DC</sub> is recommended for 802.3at and 802.3bt, redundant dual power input 370W 1 Relay Output	<ul> <li>IP Multicast</li> <li>Storm Control</li> <li>Redundancy</li> </ul>	IGMP Snooping v1/v2/v3, MLD Snooping, IGMP Immediate leave Broadcast, Multicast, Unknown unicast IEEE 802.1D-STP, IEEE 802.1s-MSTP, IEEE 802.1w-RSTP, X-Ring Pro, with ultra high-speed recovery time less than 20ms

## AD\ANTECH Industrial Ethernet Solutions

#### All product specifications are subject to change without notice.

## EKI-7712G-4FMPI



#### 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

Encryption), TACACS+

Private MIB

SSH2.0, SSL TFTP, HTTP, Dual Image

SNTP client

Client, Server, Option66/67/82

Static, Dynamic IP Source Guard, ARP Spoofing Prevention, Access Control List, DHCP Snooping,

SNMP v1/v2c/v3, WEB, Telnet, RMON, Standard MIB,

802.1x (Port-Based, MD5/TLS/TTLS/PEAP

#### Security

- Port Security
- Authentication
- **.** .
- Management
- DHCPAccess
- 100000
- Security access
- Software upgrade
- NTP

## **Ordering Information**

EKI-7712G-4FMPI-AE 6G POE + 2G Mega POE + 4G SFP POE Ethernet Switch
 w/Wide Temp