# 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/TTLS/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 55  $V_{DC}$  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 802.3at/at PoE Gigabit ports, 2 x IEEE 802.3bt PoE Gigabit ports, 3at/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.

Certification

# **Specifications**

#### Interface

Interface		oontinoution	
I/O Port	8 x 10/100/1000BASE-T/TX RJ-45	<ul> <li>Safety</li> </ul>	UL 62368-1*
	4 x SFP (mini-GBIC) port	= EMI	CE, FCC Class A
<ul> <li>Console port</li> </ul>	RS-232 (RJ45)	EMS	EN 61000-4-2
<ul> <li>Power Connector</li> </ul>	6-pin screw Terminal Block (including relay)		EN 61000-4-3
			EN 61000-4-4
Physical			EN 61000-4-5 EN 61000-4-6
<ul> <li>Enclosure</li> </ul>	Metal Shell		EN 61000-4-8
<ul> <li>Protection Class</li> </ul>	IP 30	Shock	IEC 60068-2-27
<ul> <li>Installation</li> </ul>	DIN-Rail, Wall-mount kit	<ul> <li>Freefall</li> </ul>	IEC 60068-2-32
<ul> <li>Dimensions (W x H x D)</li> </ul>	97 x 152 x 105 mm (3.819" x 5.984" x 4.134")	<ul> <li>Vibration</li> </ul>	IEC 60068-2-6
LED Dicploy		<ul> <li>Traffic control</li> </ul>	NEMA TS-2*
LED Display		<ul> <li>Railway Track Side</li> </ul>	EN50121-4*
<ul> <li>System LED</li> </ul>	PWR1, PWR2, SYS, Alarm and R.M.	<ul> <li>Patent</li> </ul>	http://www.advantech.com/legal/patent
Port LED	Link / Speed / Activity	*=Compliant	napi,, ini nadranoonooni, ioga, paton
Environment		-compilant	
<ul> <li>Operating Temperature</li> </ul>	-40 ~ 70°C (-40 ~ 158°F)	L2 Features	
<ul> <li>Storage Temperature</li> </ul>	-40 ~ 85°C	L2 MAC Address	8K
<ul> <li>Ambient Relative Humidity</li> </ul>	10 ~ 95% (non-condensing)	Jumbo Frame	9216 Bytes
<ul> <li>Humidity</li> </ul>	$10 \sim 95\%$ (non-condensing)	VLAN Group	256 (VLAN ID 1 ~ 4094)
		<ul> <li>VLAN Arrange</li> </ul>	Port based VLAN, Q-in-Q (VLAN Stacking), GVRP
Power		<ul> <li>Port Mirroring</li> </ul>	Per port, Multi-source port,
<ul> <li>Power Consumption</li> </ul>	12W @ 55V <sub>DC</sub> (System)	IP Multicast	IGMP Snooping v1/v2/v3, MLD
<ul> <li>Power Input</li> </ul>	55V <sub>DC</sub> (Support 48-57VDC range)		Snooping, IGMP Immediate leave
	53-57V <sub>DC</sub> for 802.3at Full-load	<ul> <li>Storm Control</li> </ul>	Broadcast, Multicast, Unknown unicast
	55-57V <sub>DC</sub> for 802.3bt Full-load	<ul> <li>Redundancy</li> </ul>	IEEE 802.1D-STP, IEEE 802.1s-MSTP, IEEE
<ul> <li>Power Budget</li> </ul>	370W		802.1w-RSTP, X-Ring Pro, with ultra high-speed

### AD\ANTECH Industrial Ethernet Solutions

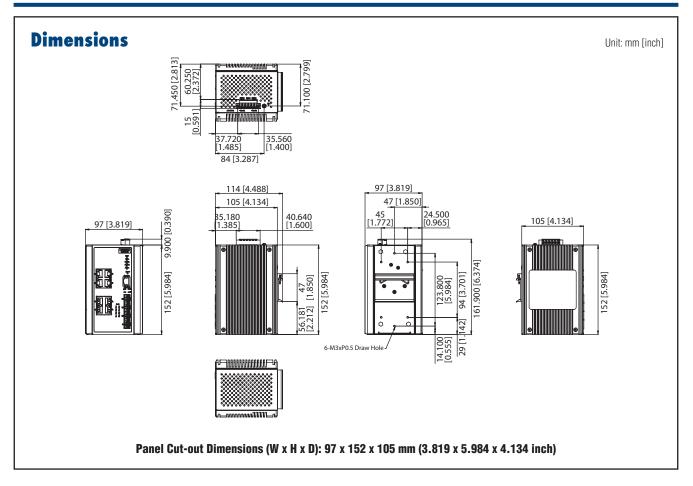
1 Relay Output

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

Fault Output

recovery time less than 20ms

## EKI-7712G-4FMPI



#### QoS

- Priority Queue WRR (Weighted Round Robin), SP (Strict Scheduling Scheduling Priority) Hybrid Priority

Ingress Rate limit, Egress Rate limit

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

- Class of Service IEEE 802.1p Based CoS, IP TOS, DSCP based CoS
- Rate Limiting
- Link Aggregation IEEE 802.3ad Dynamic Port Trunking, Static Port Trunking

Encryption), TACACS+

Private MIB

SSH2.0, SSL

Client, Server, Option66/67/82

#### Security

- Port Security
- Authentication
- Management
- DHCP
- Access
- Security access
- TFTP, HTTP, Dual Image Software upgrade SNTP client
- NTP

## **Ordering Information**

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