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_{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, 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.

Specifications

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

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

 Ambient Relative Humidity 10 ~ 95% (non-condensing) Humidity 10 ~ 95% (non-condensing)

Power

Power Consumption 20W @ 48V_{DC} (System) Power Input 48 V_{DC} (46 to 57 V_{DC}),

53 -57 V_{DC} is recommended for 802.3at and

802.3bt, redundant dual power input

 Power Budget Fault Output 1 Relay Output

Certification

UL 61010 Safety CE, FCC Class A EMI 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 Shock IEC 60068-2-27 Freefall IEC 60068-2-32 IEC 60068-2-6 Vibration

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

NEMA TS2

EN 50121-4

L2 Features

Traffic control

Railway Track Side

 L2 MAC Address 8K Jumbo Frame 9216 Bytes

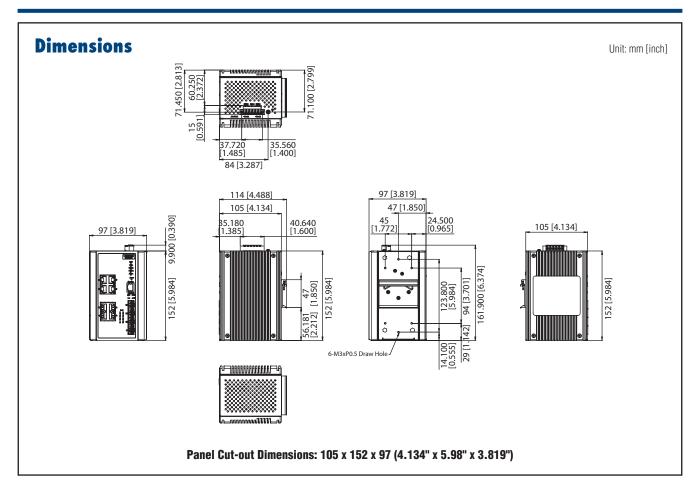
 VLAN Group 256 (VLAN ID 1 ~ 4094)

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

Security access SSH2.0, SSL

• **Software upgrade** TFTP, HTTP, Dual Image

NTP SNTP client

Ordering Information

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