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 53 ~ 57 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 6×1 IEEE 802.3af/at PoE Gigabit ports, 2 x IEEE 802.3bt PoE Gigabit ports, and 4×1 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,

802.3ab

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 ShellProtection 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_{oc} (System)
■ Power Input 53 ~ 57V_{oc} for 802.3at/af 55 ~ 57V_{oc} for 802.3bt

Power Budget 370WFault Output 1 Relay Output

Certification

- Safety UL 62368-1
- EMI CE, FCC Class A
- EMS EN 61000-4-2
- EN 61000-4-3
- EN 61000-4-5
- EN 61000-4-5
- EN 61000-4-8
- Shock IEC 60068-2-27
- Freefall IEC 60068-2-32

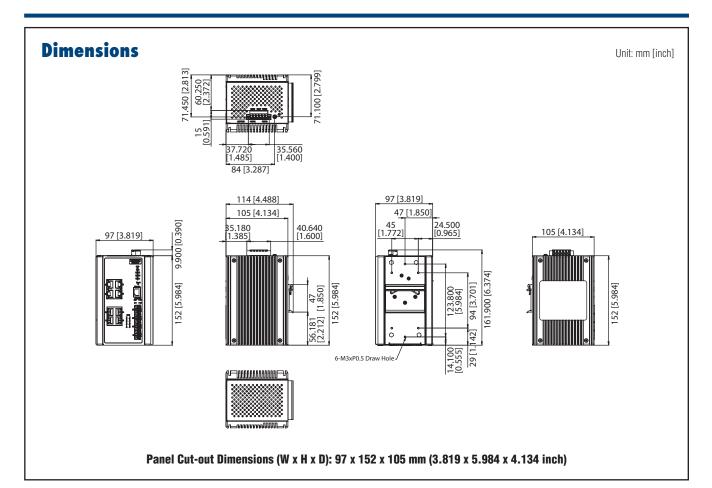
Patent http://www.advantech.com/legal/patent

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EKI-7712G-4FMPI



L2 Features

■ L2 MAC Address 8K

Jumbo Frame 9216 Bytes

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

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

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, Y-Ring Pro, with ultra high-spec

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

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