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 $V_{\mbox{\scriptsize DC}}$ 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, 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.

Environment

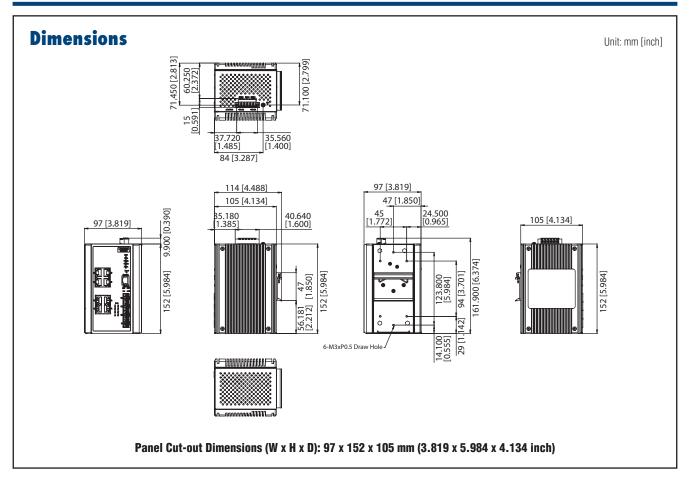
Specifications

Communication

| Guinnunigation | | | |
|--|---|---|---|
| Standard | IEEE 802.3, 802.3u, 802.3x, 802.3z , 802.1D, 802.1w, 802.1p, 802.1Q, 802.1X, 802.3ad, 802.3ab | Operating Temperature Storage Temperature Ambient Relative Humidi | · · · · · · · · · · · · · · · · · · · |
| - LAN | 10/100/1000Base-T (X), Optional 100Base-FX, 1000Base-SX/LX/LHX/XD/ZX/EZX | Humidity | 10 ~ 95% (non-condensing) |
| | | Power | |
| Interface | | Power Consumption | I2W @ 55V₀c (System) |
| I/O Port | 8 x 10/100/1000BASE-T/TX RJ-45 4 x SFP (mini-GBIC) port | Power Input | $53 \sim 57V_{DC}$ for 802.3at/af $55 \sim 57V_{DC}$ for 802.3bt |
| PoE | Port 1 ~ Port 6: IEEE 802.3at/af | | 370W |
| | (Up to 30W per port) Port 7 ~ Port 8: IEEE 802.3bt | | l Relay Output |
| | (Up to 90W per port) | Certification | |
| Console port | RS-232 (RJ45) | - Safety | JL 62368-1 |
| Power Connector | 6-pin screw Terminal Block (including relay) | | CE, FCC Class A |
| Physical | | | EN 61000-4-2 EN 61000-4-3 |
| Enclosure | Metal Shell | | EN 61000-4-4 |
| Protection Class | IP 30 | | EN 61000-4-5 |
| Installation | DIN-Rail, Wall-mount kit | | EN 61000-4-6 |
| Dimensions (W x H x D) | 97 x 152 x 105 mm (3.819" x 5.984" x 4.134") | | EN 61000-4-8 |
| | | Shock | EC 60068-2-27 |
| LED Display | | Freefall | EC 60068-2-32 |
| System LED | PWR1, PWR2, SYS, Alarm and R.M. | Vibration | EC 60068-2-6 |
| Port LED | Link / Speed / Activity | Traffic control | NEMA TS-2 |
| | | Railway Track Side | N50121-4 |
| | | • | http://www.advantech.com/legal/patent |
| | | | |

AD\ANTECH Industrial Ethernet Solutions

EKI-7712G-4FMPI



L2 Features

- L2 MAC Address
- Jumbo Frame 9216 Bytes
- VLAN Group
- VLAN Arrange
- Port Mirroring
- IP Multicast
- Storm Control
- Redundancy
- QoS
- Priority Queue WRR (Weighted Round Robin), SP (Strict Scheduling Scheduling Priority) Hybrid Priority IEEE 802.1p Based CoS, IP TOS, DSCP based CoS

Trunking

- Class of Service
- Rate Limiting
- Link Aggregation

- Security
- Port Security
- Authentication

Management

DHCP Client, Server, Option66/67/82 Access SNMP v1/v2c/v3, WEB, Telnet, RMON, Standard MIB, Private MIB Security access SSH2.0. SSL TFTP, HTTP, Dual Image

Encryption), TACACS+

- Software upgrade NTP
 - SNTP client
- **Ordering Information**
- EKI-7712G-4FMPI-AE
- 6G PoE + 2G 90W PoE + 4G SFP PoE Managed Switch w/Wide Temp

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

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

IGMP Snooping v1/v2/v3, MLD Snooping, IGMP Immediate leave Broadcast, Multicast, Unknown unicast IEEE 802.1D-STP, IEEE 802.1s-MSTP, IEEE

256 (VLAN ID 1 ~ 4094)

Per port, Multi-source port,

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

8K

802.1w-RSTP, X-Ring Pro, with ultra high-speed recovery time less than 20ms

Ingress Rate limit, Egress Rate limit

IEEE 802.3ad Dynamic Port Trunking, Static Port