EKI-7710E-2CP
EKI-7710E-2CPI

8FE+2G Port Gigabit Managed Redundant Industrial PoE Switch

Features

- 8 x IEEE 802.3 af/at PoE Fast Ethernet ports + 2 x Gigabit Copper/SFP combo 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
- -40 ~ 75 °C wide-range operating temperature (EKI-7710E-2CPI)
- Dual 24 ~ 48 V_{DC} power input and 1 relay output
- Support Security Pack to against internal and external cyber threats

Introduction

The EKI-7710E-2CP/2CPI supports eight Power over Ethernet (PoE) ports and two Gigabit combo ports. It can provide up to 30 watts per port to fulfill high power consumption PD (Power Device). It features Advantech's IXM function, this can benefit users with fast deployment and can dramatically save engineers time and cost. The EKI-7710E series also supports NMS to help IT managers with networking maintenance and failure prevention. Finally, the EKI-7710E series is equipped with X-Ring Pro which can achieve ultra high speed recovery times of less than 20ms to ensure network stability.

Specifications

Interface

- **I/O Port** — 8 x 10/100Base-T/TX RJ-45
  2 x RJ-45/SFP(mini-GBIC)Combo 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)** — 74 x 152 x 105 mm (2.91" x 5.98" x 4.13")

LED Display

- **System LED** — PWR1, PWR2, SYS, Alarm and R.M.
- **Port LED** — Link / Speed / Activity / PoE

Environment

- **Operating Temperature** — -40 ~ 75 °C (-40 ~ 167 °F) 7710E-2CPI
  -10 ~ 60 °C (-40 ~ 140 °F) 7710E-2CP
- **Storage Temperature** — -40 ~ 85 °C
- **Ambient Relative Humidity** — 10 ~ 95% (non-condensing)
- **Humidity** — 10 ~ 95% (non-condensing)

Power

- **Power Consumption** — 12.1W @ 48V_{DC} (System)
- **Power Input** — 24 ~ 48 V_{DC}, redundant dual power input
- **Power Budget** — 120W
- **Fault Output** — 1 Relay Output

Certification

- **EMI** — CE, FCC Class A
- **Safety** — UL508
  UL60950*, C1D2*
- **EMC** — EN 61000-4-2
  EN 61000-4-3
  EN 61000-4-4
  EN 61000-4-5
  EN 61000-4-6
  EN 61000-4-8
  EN50121-4*
- **Shock** — IEC 60068-2-27
- **Freefall** — IEC 60068-2-32
- **Vibration** — IEC 60068-2-6
- **Traffic control** — NEMA TS2*

*= Compliant

- **Patent** — http://www.advantech.com/legal/patent

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

Dimensions

Unit: mm [inch]
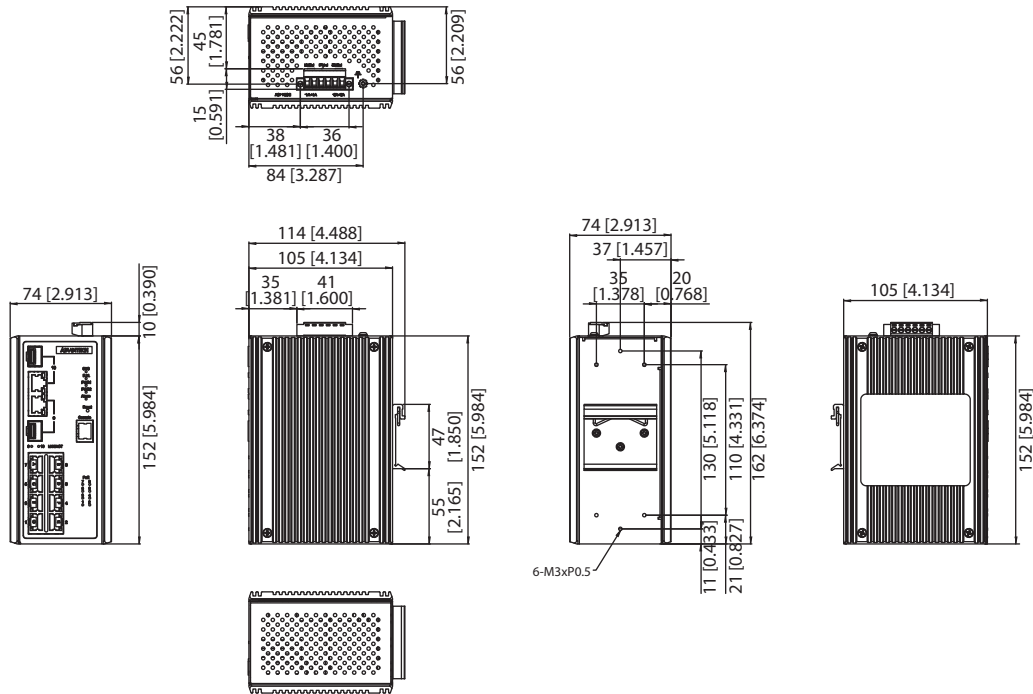
Panel Cut-out Dimensions: 105 (4.137) x 152 (5.984) x 74 (2.91)

QoS

- **Priority Queue**
- **Scheduling** — WRR (Weighted Round Robin), SP (Strict 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-7710E-2CPI-AE** — 8FE + 2G Combo Port Managed PoE Ethernet Switch w/Wide Temp
- **EKI-7710E-2CP-AE** — 8FE + 2G Combo Port Managed PoE Ethernet Switch