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

8FE+2G Port Managed Redundant Industrial PoE Switch



Features

- 8 x Fast Ethernet ports + 2 x Gigabit Copper/SFP combo ports
- Support 8 x IEEE 802.3at/af PoE ports for PD demands
- Redundancy: X-Ring Pro (ultra-high-speed recovery time, <20 ms), RSTP/STP (802.1w/1D)
- IXM function for fast deployment
- Security Pack with 802.1X, ACL, RADIUS, TACACS+, MAB Authentication, SNMPv3, HTTPS, SSH, and SFTP
- Management: SNMP v1/v2c/v3, WEB, Telnet, standard MIB, private MIB
- Supports NMS for easy and visualized to monitor and manage network
- Dual 24 ~ 48 V_{DC} power input and 1 x relay output





Introduction

The EKI-7710E-2CP/2CPI support 8 PoE ports and 2 Gigabit combo ports. They can provide up to 30 W per port for high-power-consumption powered devices. They also features Advantech's IXM function, which can benefit users with fast deployment and can save considerably on engineering time and cost. The series also support NMS to help IT managers with networking maintenance and failure prevention. Finally, they are equipped with X-Ring Pro, which can achieve ultra-high-speed recovery times of <20 ms, thus ensuring network stability.

Specifications

Interfaces / Communications

 I/O Port 8 x 10/100BASE-T/TX RJ-45 2 x 10/100/1000BASE-T/TX or SFP (mini-GBIC) Combo ports Auto-Negotiation, Full/Half Duplex Mode

Auto MDI/MDI-X Connection Standards IEEE 802.3 for 10BaseT

IEEE 802.3u for 100BaseT(X)/FX IEEE 802.3ab 1000BaseT(X)

IEEE 802.3z for 1000BaseSX/LX/LHX/ZX IEEE 802.3x for Flow Control

■ PnF Port 1 ~ Port 8: IEEE 802.3at/af

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, Wall-mount

Dimensions (W x H x D) 74 x 152 x 105 mm (2.91" x 5.98" x 4.13")

LED Indicators

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

Environment

 Operating Temperature -40 ~ 75°C (-40 ~ 167°F) (EKI-7710E-2CPI) -10 ~ 60°C (-40 ~ 140°F) (EKI-7710E-2CP)

 Storage Temperature -40 ~ 85°C (-40 ~ 185°F) Ambient Relative Humidity 5 ~ 95% (non-condensing)

Overload Current Protection Present Reverse Polarity Protection Present MTBF 846.513 hours

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

Safety **UL 508**

= EMI CE, CISPR 32, FCC Part 15B Class A

EMS EN 61000-4-2 EN 61000-4-3 EN 61000-4-4 FN 61000-4-5

EN 61000-4-6 EN 61000-4-8 EN 61000-6-2

EMC EN 61000-6-4 Shock IEC 60068-2-27 IEC 60068-2-32

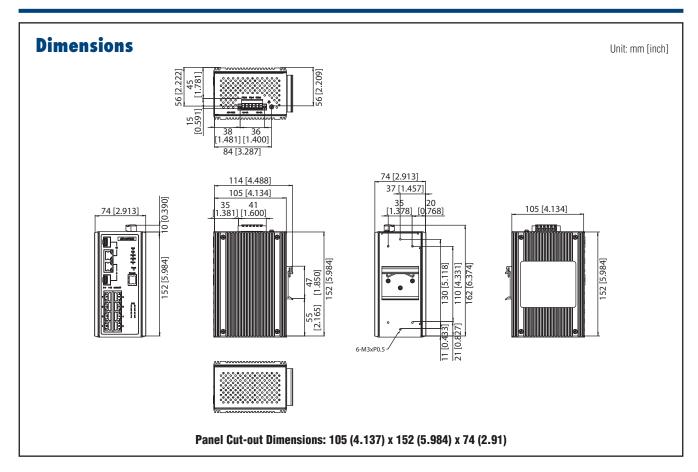
Freefall Vibration IEC 60068-2-6 Traffic control NEMA TS-2 Railway Trackside EN 50121-4

Switch Properties

 Switch Capacity 5.6Gbps Transmission Rate 4.17Mpps **MAC Table Size** Jumbo Frame 1,0240 Bytes Packet Buffer Size 4.1Mb

Max. IGMP Group

Max. VLAN Group 256 (VLAN ID 1 ~ 4094)



L2 Features

VLAN Arrange
 Port Mirroring
 802.1Q Tag-based VLAN, 802.1ad QinQ VLAN Stacking
 1 to 1, N to 1

Max. Mirror Session: 4

■ **RSPAN** Remote Switched Port Analysis

■ GARP GVRP, GMRP

• IP Multicast IGMP Snooping v1/v2/v3, MLD Snooping, IGMP Immediate leave

• Storm Control Broadcast, Multicast, Unknown unicast

■ **LLDP** 802.1ab LLDP, LLDP-MED

LLDP 802.1ab LLDP, LLDP-MIndustrial Protocol Modbus/TCP

■ **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, ERPS(G.8032)

OoS

Priority Queue WRR (Weighted Round Robin), SP (Strict Scheduling
 Scheduling Priority) Hybrid Priority, Max. Priority Queues: 8

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 MAC, Max. Learning Limit, MAC

Violation Notice

802.1X Port-based/MAC-based Authentication

(MD5/PEAP/TLS/TTLS Encryption)

• MAB MAC Authentication Bypass

Authentication
 RADIUS, TACAS+

IP Security

IP Source Guard, DHCP Snooping, ARP Spoofing

Provention

Prevention

ACL Access Control List (IP-ACL, MAC-ACL)

Max. ACL Entries: 128

Management

PoE PoE system settings, port settings and status
 DHCP Client, Server, Option66/67/82, DHCP Relay

 Access SNMP v1/v2c/v3, WEB, Telnet, RMON, Standard MIB-II, Private MIB, Ethernet-Like MIB, RMON MIB

(Group 1, 2, 3, 9)

Security Access

SSH2.0, SSL

Software Upgrade TFTP, SFTP, 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

Note: For SFP copper type, only 1000Mbps supported.