EKI-7710G-2CP EKI-7710G-2CPI

8GE+2G Port Gigabit Managed **Redundant Industrial PoE Switch**



Features

- 8 x Gigabit 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 remotely
- Dual 24 ~ 48 V_{DC} power input and 1 x relay output





Introduction

The EKI-7710G-2CP/2CPI support 8 Gigabit PoE ports and 2 Gigabit combo ports. They provide up to 30W per port for high-power-consumption powered devices. They come embedded with Advantech IXM function, which can benefit users with fast deployment and can dramatically save considerably on engineering time and costs. The EKI-7710G 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 10/100/1000BASE-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 802.37 for 1000BaseSX/LX/LHX/ZX

IEEE 802.3x for Flow Control

Port 1 ~ Port 8: IEEE 802.3at/af

 Console Port RS-232 (RJ45)

 Power Connector 6-pin screw Terminal Block (including relay)

Physical

PoE

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

Environment

-40 ~ 75°C (-40 ~ 167°F) (EKI-7710G-2CPI) Operating Temperature

-10 ~ 60°C (-40 ~ 140°F) (EKI-7710G-2CP) -40 ~ 85°C (-40 ~ 185°F)

 Storage Temperature 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

120W Power Budget 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 EN 61000-4-5 EN 61000-4-6 EN 61000-4-8

EMC EN 61000-6-2 EN 61000-6-4

Shock IEC 60068-2-27 IEC 60068-2-32 Freefall IEC 60068-2-6

Vibration Traffic control NEMA TS-2 Railway Trackside EN 50121-4

Switch Properties

Max. IGMP Group

 Switch Capacity 20Gbps Transmission Rate 14.8Mpps MAC Table Size Jumbo Frame 1,0240 Bytes Packet Buffer Size 4.1Mb

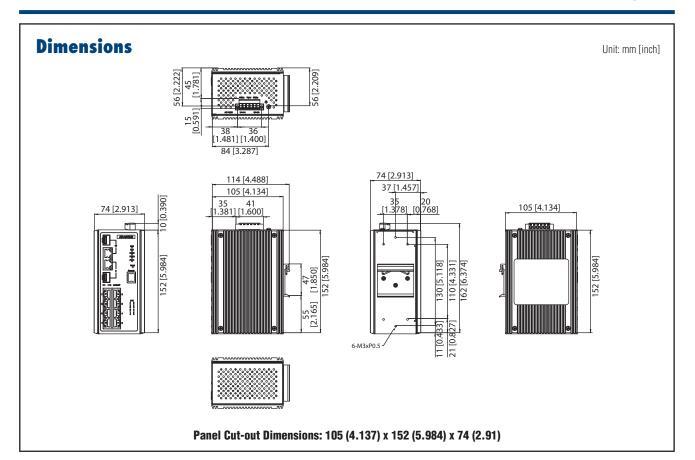
 Max. VLAN Group 256 (VLAN ID 1 ~ 4094)

Amplicon.com

IT and Instrumentation for industry



EKI-7710G-2CP/2CPI



L2 Features

RSPAN

GARP

LLDP

Port Mirroring

Storm Control

• VLAN Arrange 802.1Q Tag-based VLAN, 802.1ad QinQ VLAN Stacking

1 to 1, N to 1

Max. Mirror Session: 4

Remote Switched Port Analysis

GVRP, GMRP

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

Snooping, IGMP Immediate leave

Broadcast, Multicast, Unknown unicast

802.1ab LLDP, LLDP-MED

Industrial 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

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-7710G-2CPI-AE 8GE + 2G Combo Port Managed PoE Ethernet Switch w/Wide Temp

• **EKI-7710G-2CP-AE** 8GE + 2G Combo Port Managed PoE Ethernet Switch

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



IT and Instrumentation for industry

