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

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



Features

- 8 x IEEE 802.3 af/at PoE Gigabit 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/PEAP encryption), RADIUS
- Management: SNMP v1/v2c/v3, WEB, Telnet, standard MIB, private MIB
- Wide operating temperature range of -40 ~ 75°C (EKI-7710G-2CPI)
- 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 30 W 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

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8 x 10/100/1000BASE-T/TX RJ-45 I/O Port 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 DIN-Rail Installation

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, CFG, Alarm and R.M. Port LED Link / Speed / Activity / PoE

Environment

 Operating Temperature -40 ~ 75°C (-40 ~ 167°F) 7710G-2CPI -10 ~ 60°C (-40 ~ 140°F) 7710G-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* EN 61000-4-2 EMC EN 61000-4-3 EN 61000-4-4 EN 61000-4-5 EN 61000-4-6 FN 61000-4-8 EN50121-4* Shock IEC 60068-2-27

Freefall IEC 60068-2-32 Vibration IFC 60068-2-6 Traffic Control NEMA TS2*

*= Compliant

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

L2 Features

 L2 MAC Address Jumbo Frame 9216 Bytes

256 (VLAN ID 1 ~ 4094) VLAN Group

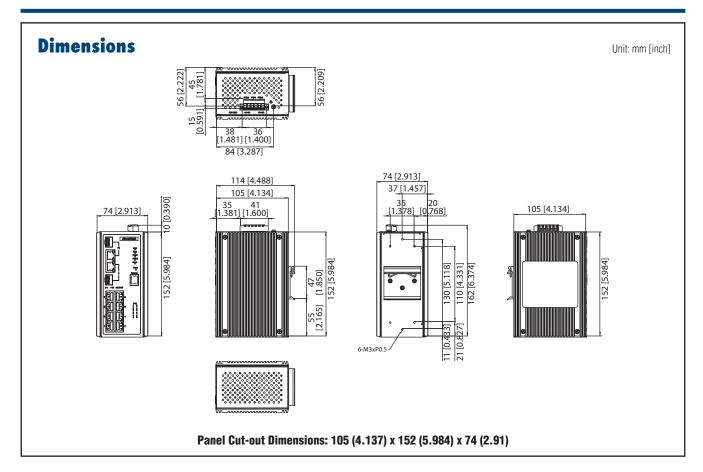
 VLAN Arrange Port based VLAN, Q-in-Q (VLAN Stacking), GVRP

Port Mirroring Per port, Multi-source port, IGMP Snooping v1/v2/v3, MLD IP Multicast

Snooping, IGMP Immediate leave Storm Control Broadcast, Multicast, Unknown unicast IEEE 802.1D-STP, IEEE 802.1s-MSTP, IEEE Redundancy

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
Rate Limiting
IEEE 802.1p Based CoS, IP TOS, DSCP based CoS
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-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