EKI-7710G-2C EKI-7710G-2CI

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



Features

- 8 x Gigabit Ethernet ports + 2 x Gigabit Copper/SFP combo ports
- 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 12 ~ 48 V_{DC} power input and 1 x relay output









The EKI-7710G-2C and EKI-7710G-2CI support 8 Gigabit ports and 2 Gigabit combo ports. These units priving users with abundant port options for connecting many different device types. Additionally, it is embedded with Advantech IXM function, which can benefit users for fast de loy mout and can 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, this series is equipped with X-Ring Pro, which can achieve ultra-high-speed recovery times of <20 ms, thus ensuring network stability.

Specifications

Interfaces / Communications

8 x 10/100/1000BASE-T/TX RJ-43 I/O Port

2 x 10/100/1000BASE-T/TX or SFF (mini-GBIC) Combo port •

Auto-Negotiation, Full/Half Duplex Mode

Auto MDI/MDI-X Conr ection

IEEE 802.3 for 10F ase 7 Standards

IEEE 802.3u for 10 CBas T(X)/FX IEEE 802.3ab 100Bas T(X)

IEEE 80 3z for 1000BaseSX/LX/LHX/ZX

IEEF 802.3, for Flow Control

 Console port RJ 232 (3J45)

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

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

Environment

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

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

 Storage Temperature -40 ~ 85°C (-40 ~ 185°F)

 Ambient Relative Humidity 5 ~ 95% (non-condensing)

 Overload Current Protection Present Reverse Polarity Protection Present

MTBF 1 679 827 hours

 Power Consumption 12.1W @ 48 VDC (System)

 Power Input 12 ~ 48 V_{DC}, redundant dual power input

 Fault Output 1 Relay Output

Certification

Safety UL 508. EN LVD 62368

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

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 IEC 60068-2-27 Shock

Freefall IEC 60068-2-32

Vibration IEC 60068-2-6

Traffic control NEMA TS-2

 Railway Trackside EN 50121-4

Switch Properties

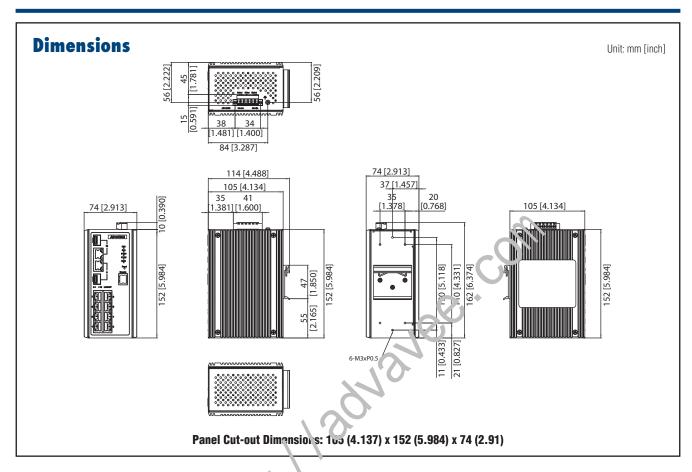
 Switching Capacity 20Gbps Transmission Rate 14.8Mpps

MAC Table Size

Jumbo Frame 1,0240 Bytes Packet Buffer Size 4.1Mb

Max. IGMP Group

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



Security

802.1X

- MAB

Access

Port Security

L2 Features

802.1Q Tag-based VLAN, 802 (ad QinQ VLAN Stacking VLAN Arrange 1 to 1. N to 1 Port Mirroring

Max. Mirror Session: 4

Remote Switched Port . 'nalysi. RSPAN

GARP GVRP, GMRP

IGMP Chooping v1/v2/v3, MLD Authentication RADIUS, TACAS+ IP Multicast Snooping, 'GMr Immediate leave IP Source Guard, DHCP Snooping, ARP Spoofing **IP Security**

 Storm Control Broadcast, Multicast, Unknown unicast Prevention - ACL Access Control List (IP-ACL, MAC-ACL) LLDP 802.1ab LLDP, LLDP-MED

Max. ACL Entries: 128 Industrial Protocol Modbus/TCP

Redundancy IEEE 802.1D-STP, IEEE 802.1s-MSTP, IEEE **Management** 802.1w-RSTP, X-Ring Pro, with ultra high-speed DHCP recovery time less than 20ms, ERPS(G.8032)

OoS MIB-II, Private MIB, Ethernet-Like MIB, RMON MIB (Group 1, 2, 3, 9) Priority Queue WRR (Weighted Round Robin), SP (Strict Scheduling Security access SSH2.0, SSL Schedulina Priority) Hybrid Priority, Max. Priority Queues: 8

 Software upgrade TFTP, SFTP, HTTP, Dual Image Class of Service IEEE 802.1p Based CoS, IP TOS, DSCP based CoS

NTP SNTP client Rate Limiting Ingress Rate limit, Egress Rate limit Link Aggregation IEEE 802.3ad Dynamic Port Trunking, Static Port

Ordering Information

EKI-7710G-2CI-AE 8G + 2G Combo Port Managed Ethernet Switch w/Wide Temp

Static/Dynamic MAC, Max. Learning Limit, MAC

Port-based/MAC-based Authentication (MD5/PEAP/TLS/TTLS Encryption)

Client, Server, Option66/67/82, DHCP Relay

SNMP v1/v2c/v3, WEB, Telnet, RMON, Standard

MAC Authentication Bypass

Violation Notice

■ EKI-7710G-2C-AE 8G + 2G Combo Port Managed Ethernet Switch

Note: For SFP copper type, only 1000Mbps supported

Trunking