# EKI-7710E-2C EKI-7710E-2CI

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



### **Features**

- 8 x 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
- Wide operating temperature range -40 ~ 75 °C (EKI-7710E-2CI)
- Dual 12 ~ 48  $V_{\mbox{\scriptsize DC}}$  power input and 1 x relay output

## Introduction

The EKI-7710E-2C and EKI-7710E-2CI support 8 fast Ethernet ports and 2 Gigabit combo ports. These units are also embedded with Advantech's IXM function for fast deployment, which can save a considerable amount on engineering time and costs. The EKI-7710E series also support NMS to help IT managers with networking maintenance and failure prevention. Finally, the series are equipped with X-Ring Pro, which can achieve ultra-high-speed recovery times of <20 ms, thus ensuring network stability.

## **Specifications**

#### Interface

<ul> <li>I/0 I</li> </ul>	Port
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2 x RJ-45/SFP (mini-GBIC) Combo port
RS-232 (RJ45)
6-pin screw Terminal Block (including relay)

74 x 152 x 105 mm (2.91" x 5.98" x 4.13")

PWR1, PWR2, SYS, Alarm and R.M.

-40 ~ 75 °C (-40 ~ 167 °F) 7710E-2CI -10 ~ 60 °C (-40 ~ 140 °F) 7710E-2C

Link / Speed / Activity

-40 ~ 85 °C

8 x 10/100BASE\_T/TX B I\_45

Metal Shell

IP 30

DIN-Rail

#### **Physical**

Enclosure

Console portPower Connector

- Protection Class
- Installation
- Dimensions (W x H x D)

#### **LED Display**

- System LED
- Port LED

#### Environment

- Operating Temperature
- Storage Temperature
- Ambient Relative Humidity
- Humidity

#### Power

- Power Consumption
- Power Input
- 10 ~ 95% (non-condensing)
- 12.1W @ 48V<sub>DC</sub> (System) 12 ~ 48 V<sub>DC</sub>, redundant dual power input

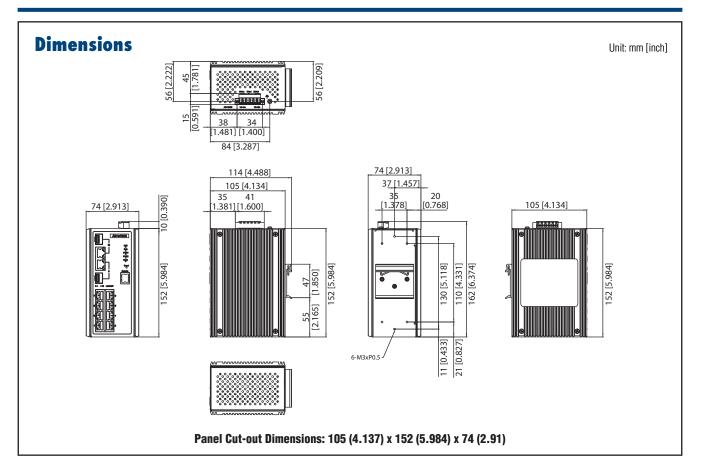
10 ~ 95% (non-condensing)

- Fault Output
- $12 \sim 48 V_{\text{DC}}$ , redundant dual power in 1 Relay Output

#### Certification

<ul> <li>EMI</li> <li>Safety</li> <li>EMC</li> </ul>	CE, FCC Class A UL508, EN LVD 62368-1 EN 61000-4-2 EN 61000-4-3 EN 61000-4-4 EN 61000-4-5 EN 61000-4-6 EN 61000-4-8	
<ul> <li>Shock</li> </ul>	IEC 60068-2-27	
<ul> <li>Freefall</li> </ul>	IEC 60068-2-32	
<ul> <li>Vibration</li> </ul>	IEC 60068-2-6	
<ul> <li>Traffic control</li> </ul>	NEMA TS2	
<ul> <li>Railway Trackside</li> </ul>	EN 50121-4	
L2 Features		
L2 MAC Address	8K	
<ul> <li>Jumbo Frame</li> </ul>	9216 Bytes	
<ul> <li>VLAN Group</li> </ul>	256 (VLAN ID 1 ~ 4094)	
<ul> <li>VLAN Arrange</li> </ul>	Tag-based VLAN, Q-in-Q (VLAN Stacking), GVRP	
<ul> <li>Port Mirroring</li> </ul>	Per port, Multi-source port,	
<ul> <li>IP Multicast</li> </ul>	IGMP Snooping v1/v2/v3, MLD Snooping, IGMP Immediate leave	
<ul> <li>Storm Control</li> </ul>	Broadcast. Multicast. Unknown unicast	
<ul> <li>Redundancy</li> </ul>	IEEE 802.1D-STP, IEEE 802.1s-MSTP, IEEE 802.1w-RSTP, X-Ring Pro, with ultra high-speed recovery time less than 20ms	

## EKI-7710E-2C/2CI



#### QoS

- Priority Queue WRR (Weighted Round Robin), SP (Strict Scheduling Priority) Hybrid Priority
- Scheduling
- Class of Service
- Rate Limiting
- Link Aggregation

#### 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+

Trunking

#### Management

Security access

- Software upgrade

- DHCP Client, Server, Option66/67/82
- Access

SNMP v1/v2c/v3, WEB, Telnet, RMON, Standard MIB, Private MIB SSH2.0, SSL TFTP, HTTP, Dual Image SNTP client

IEEE 802.1p Based CoS, IP TOS, DSCP based CoS

IEEE 802.3ad Dynamic Port Trunking, Static Port

Ingress Rate limit, Egress Rate limit

NTP

- **Ordering Information** 8FE + 2G Combo Port Managed Ethernet Switch w/
- EKI-7710E-2CI-AE
- Wide Temp
- EKI-7710E-2C-AE
- 8FE + 2G Combo Port Managed Ethernet Switch

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