![Chipsmall logo]

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

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

## Features

- 8 Fast Ethernet ports + 2 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
- -40 ~ 75°C wide-range operating temperature (EKI-7710E-2CI)
- Dual 12~48 V$_{DC}$ power input and 1 relay output

## Introduction

EKI-7710E-2C/2CI supports 8 Fast Ethernet ports and 2 Gigabit combo ports. It can provide users abundant ports to connect many devices. Besides, it is embedded with Advantech IXM function, this can benefit users for fast deployment and can dramatically save engineers time and costs. The EKI-7710E series also support NMS to help IT managers with networking maintenance and failure prevention. Finally, the EKI-7710E series is equipped with X-Ring Pro which can achieve ultra high speed recovery time of less than 20 ms to ensure network stability.

## Specifications

### Interface

- **I/O Port**
  8 x 10/100Base-T/TX RJ-45
  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
- **Installation**
  DIN-Rail
- **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, Alarm and R.M.
- **Port LED**
  Link / Speed / Activity

### Environment

- **Operating Temperature**
  -40 ~ 75°C (-40 ~ 167°F) 7710E-2CI
  -10 ~ 60°C (-40 ~ 140°F) 7710E-2C
- **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**
  12~48 V$_{DC}$, redundant dual power input
- **Fault Output**
  1 Relay Output
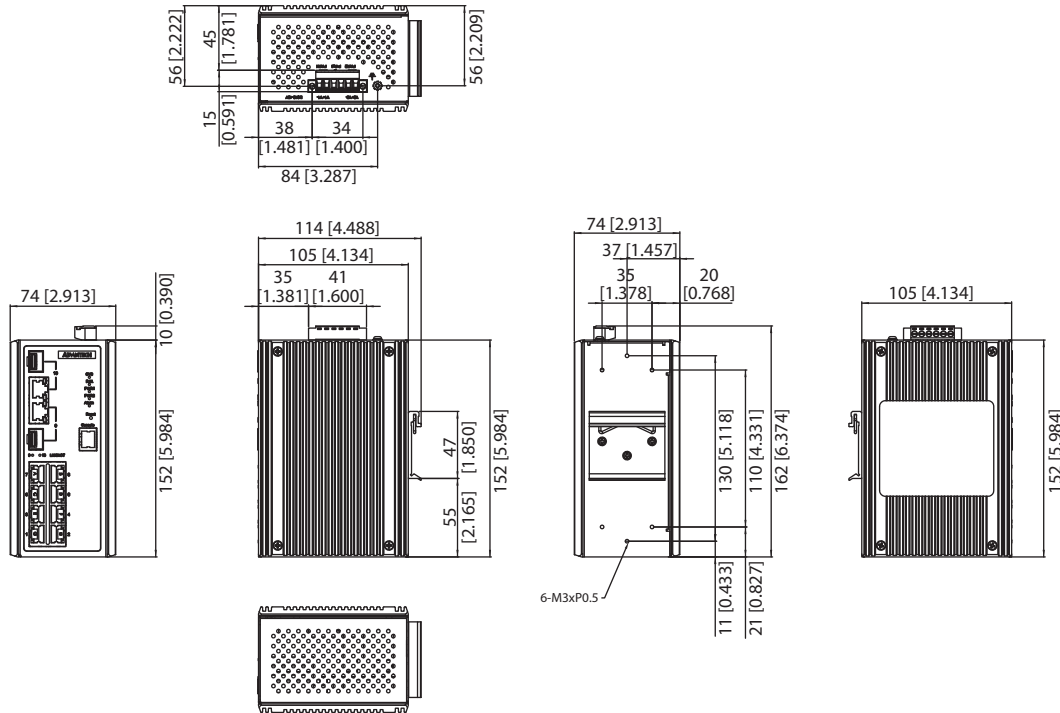
### Certification

- **EMI**
  CE, FCC Class A
- **Safety**
  UL508
  UL60950*, C1D2*
- **EMC**
  EN 61000-4-2
  EN 61000-4-3
  EN 61000-4-4
  EN 61000-4-5
  EN 61000-4-6
  EN 61000-4-8
  EN50121-4*
- **Shock**
  IEC 60068-2-27
- **Freefall**
  IEC 60068-2-32
- **Vibration**
  IEC 60068-2-6
- **Traffic control**
  NEMA TS2*

*= Compliant

### L2 Features

- **L2 MAC Address**
  8K
- **Jumbo Frame**
  9216 Bytes
- **VLAN Group**
  256 (VLAN ID 1~4094)
- **VLAN Arrange**
  Port based VLAN, Q-in-Q (VLAN Stacking), GVRP
- **Port Mirroring**
  Per port, Multi-source port,
- **IP Multicast**
  IGMP Snooping v1/v2/v3, MLD Snooping, IGMP Immediate leave
- **Storm Control**
  Broadcast, Multicast, Unknown unicast
- **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

# Dimensions

Unit: mm [inch]



56 [2.222]
45 [1.781]
56 [2.209]
15 [0.591]
38 [1.481]
34 [1.400]
84 [3.287]

114 [4.488]
105 [4.134]
35 [1.381]
41 [1.600]
74 [2.913]
10 [0.390]
152 [5.984]
47 [1.850]
55 [2.165]
152 [5.984]

74 [2.913]
37 [1.457]
35 [1.378]
20 [0.768]
130 [5.118]
110 [4.331]
162 [6.374]
11 [0.433]
21 [0.827]
6-M3xP0.5

105 [4.134]
152 [5.984]

**Panel Cut-out Dimensions: 105 (4.137) x 152 (5.984) x 74 (2.91)**

## QoS

- **Priority Queue Scheduling** — WRR (Weighted Round Robin), SP (Strict Scheduling Priority) Hybrid Priority
- **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
- **Authentication** — 802.1x (Port-Based, MD5/TLS/TTLS/PEAP Encryption)

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