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_{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

- **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
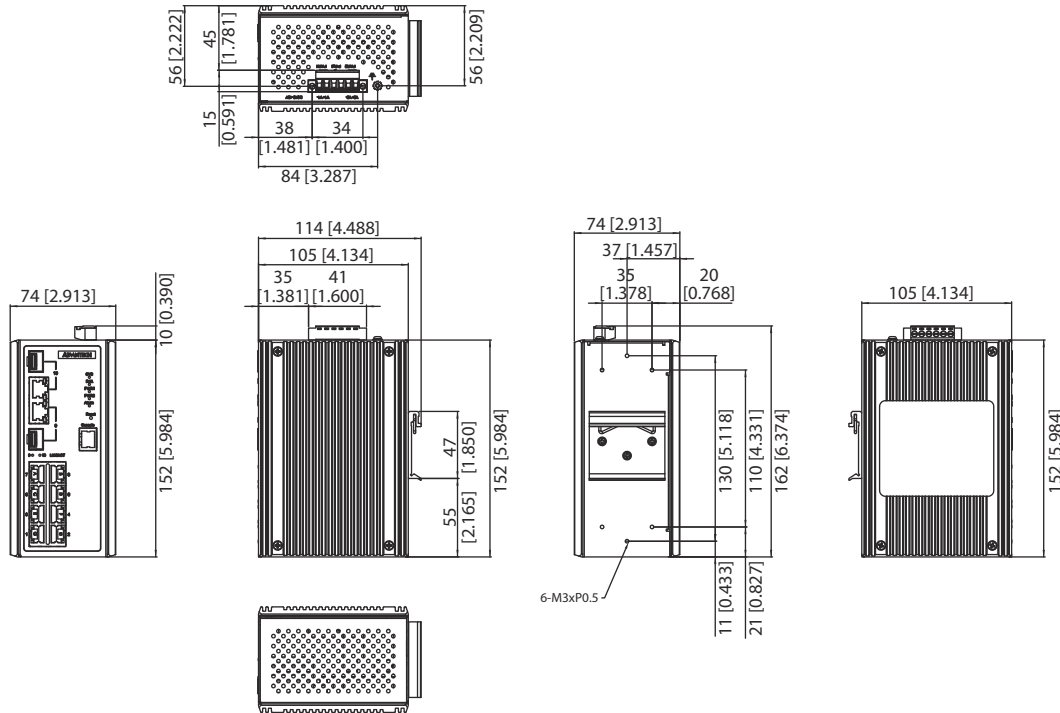
Certification

- **EMI**: CE, FCC Class A
- **Safety**: UL508, EN LVD 62368-1
- **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
- **Shock**: IEC 60068-2-27
- **Freefall**: IEC 60068-2-32
- **Vibration**: IEC 60068-2-6
- **Traffic control**: NEMA TS2
- **Railway Trackside**: EN 50121-4

L2 Features

- **L2 MAC Address**: 8K
- **Jumbo Frame**: 9216 Bytes
- **VLAN Group**: 256 (VLAN ID 1 ~ 4094)
- **VLAN Arrange**: Tag-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

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All product specifications are subject to change without notice.   Last updated: 5-Feb-2021

Dimensions

Unit: mm [inch]

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

QoS

- **Priority Queue** — WRR (Weighted Round Robin), SP (Strict Scheduling
- **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 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-7710E-2CI-AE** — 8FE + 2G Combo Port Managed Ethernet Switch w/ Wide Temp
- **EKI-7710E-2C-AE** — 8FE + 2G Combo Port Managed Ethernet Switch

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