EKI-2525P
EKI-2526PI

5-port Industrial PoE Switch

6-port Industrial PoE Switch with Wide Temperature

Features

- Provides 5/6 Fast Ethernet ports with 4 PoE ports with injector function
- Supports 10/100 Mbps Auto Negotiation
- Provides broadcast storm protection
- Supports Ethernet ESD protection
- Provides Slim size, DIN-rail/Wall mount with IP30 metal mechanism
- Supports Redundant 48 V_{DC} power input and P-Fail relay
- Supports operating temperatures from -10 to 60°C (EKI-2525P)
- Supports wide operating temperature -40 ~ 75°C (EKI-2526PI)

Introduction

The EKI-2525P is a 5-port unmanaged PoE (Power-over-Ethernet) Industrial Ethernet switch and EKI-2526PI is a 6-port unmanaged PoE Industrial Ethernet switch, they support 4 PoE ports which are classified as power source equipments (PSE). The PoE devoces makes centralized power supply come true and provides up to 15.4 watts of power per port. Advantech EKI PoE devices can be used to power IEEE 802.3af compliant powered devices (PD) by Ethernet cable and eliminates the need for additional power wiring. Advantech EKI PoE devices come equipped with all the standard features of the EKI family. Furthermore, it offers a 48 V_{DC} redundant power input design (EKI-2525P/EKI-2526PI), and is secured with a double protection mechanism; Power Polarity Reverse Protect and an Overload Current Resettable Fuse. Advantech EKI PoE devices come with compact metal housing that rates IP30 to help against from dusty industrial environments.

Specifications

Communications

- **Standard** IEEE 802.3, 802.3u, 802.3x, 802.3af
- **LAN** 10/100Base-T (X)
- **Transmission Distance** Ethernet: Up to 100 m (EKI-2525P/EKI-2526PI)
- **Transmission Speed** Up to 100 Mbps

Fiber Optics (EKI-252SPI)

- **Single-mode** 1310 nm
  Tx Power: -8/-15 dBm
  Rx Sensitivity: -34 dBm
  Parameters: 9/125 um

Interface

- **Connectors** PoE Ports: 4 (Ports 1 ~ 4)
  Ethernet x1 (EKI-2525P)
  Ethernet x2 (EKI-2526PI)
  6-pin removable screw terminal (power & relay)
- **LED Indicators** P1, P2, P-Fail
  10/100TX: Link/Activity, Duplex/Collision

Power

- **Power Consumption** EKI-2525P: 65 W (Full load PoE)
  EKI-2526PI: 62.6 W (Full load PoE)
- **Power Input** 48 V_{DC} (EKI-2525P/EKI-2526PI), redundant dual inputs
- **Power Output** 15.4 W at 48 V (per PoE port)
- **Fault Output** 1 Relay Output

Mechanism

- **Dimensions (W x H x D)** 37 x 140 x 95 mm (1.46" x 5.51" x 3.74")
  (EKI-2525P)
  48.6 x 140 x 95 mm (1.91" x 5.51" x 3.74")
  (EKI-2526PI)
- **Enclosure** IP30, Metal shell with solid mounting kits
- **Mounting** DIN-rail, Wall

Protection

- **Reverse Polarity** Present
- **Overload current** Present

Environment

- **Operating Temperature** -10 ~ 60°C (14 ~ 140°F) (EKI-2525P)
  -40 ~ 75°C (-40 ~ 167°F) (EKI-2526PI)
- **Storage Temperature** -40 ~ 85°C (-40 ~ 185°F)
- **Operating Humidity** 5 ~ 95% (non-condensing)
- **Storage Humidity** 0 ~ 95% (non-condensing)
- **MTBF** 440,132 hours

Certification

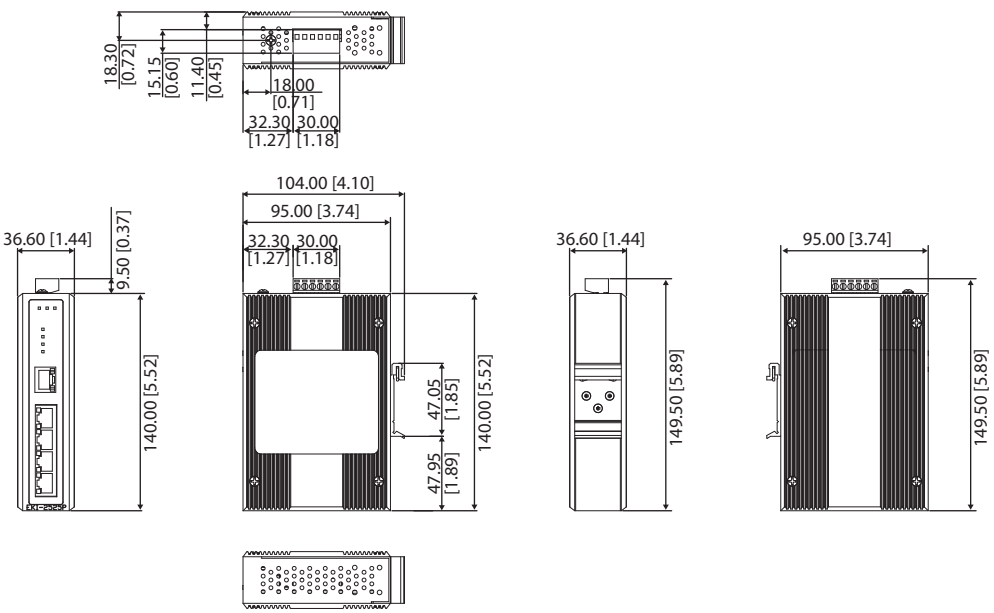
- **Safety** UL 60950-1, CAN/CSA-C22.2 No.60950
- **EMI** FCC Part 15 Subpart B Class A, EN 55022 Class A
- **EMS** EN 61000-4-2
  EN 61000-4-3
  EN 61000-4-4
  EN 61000-4-5
  EN 61000-4-6
  EN 61000-4-8
- **Shock** IEC 60068-2-27
- **Freefall** IEC 60068-2-32
- **Vibration** IEC 60068-2-6
- **Patent** http://www.advantech.com/legal/patent

Last updated : 23-Aug-2016

Dimensions

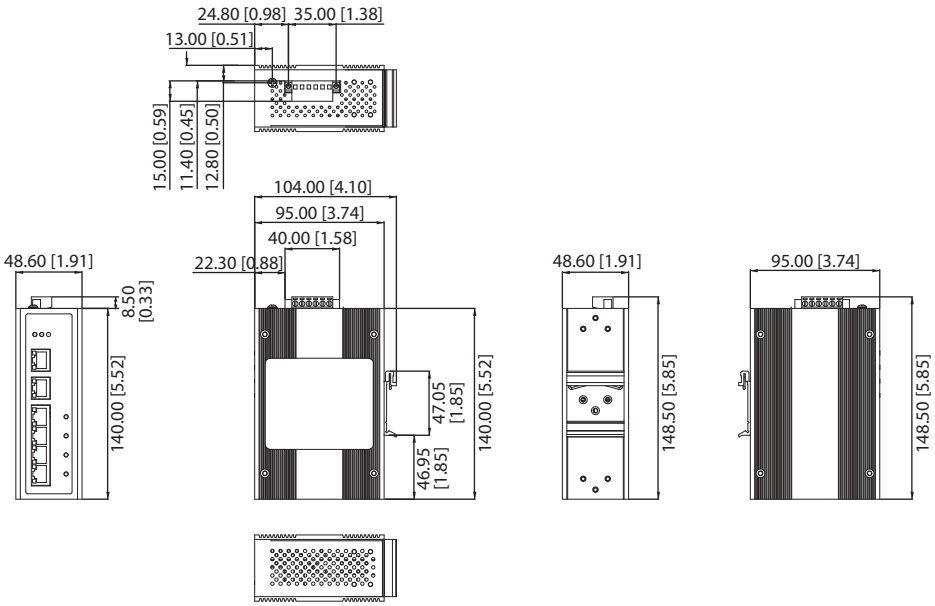
Unit: mm [inch]

EKI-2525P



Panel Cut-out Dimensions: 104.00 x 140.00 x 36.60 mm (4.10" x 5.52 x 1.44")

EKI-2526PI



Panel Cut-out Dimensions: 104 x 140 x 48.6 mm (4.1" x 5.52" x 1.91")

Ordering Information

- **EKI-2525P** 5-port Switch with 4 port-PoE
- **EKI-2526PI** 6-port Switch with 4 port-PoE

EKI-2525PA
EKI-2528PAI

5-port Industrial PoE Switch with 24/48 V_{DC} Power Input

8-port Industrial PoE Switch with 24/48 V_{DC} Power Input and Wide Temperature

Features

- Provides 5/8 Fast Ethernet ports with 4 PoE ports with injector function
- Supports 10/100 Mbps Auto Negotiation
- Provides broadcast storm protection
- Supports Ethernet ESD protection
- Provides power line EFT protection
- Provides slim size, DIN-rail/Wall mount with IP30 metal mechanism
- Supports Redundant 24/48 V_{DC} power input and P-Fail Relay
- Supports operating temperatures from -10 to 60°C (EKI-2525PA)
- Supports wide operating temperature -40 ~ 75°C (EKI-2528PAI)

Introduction

The EKI-2525PA and EKI-2528PAI are a 5/8-port unmanaged PoE (Power-over-Ethernet) Industrial Ethernet switches that supports 4 PoE ports which are classified as power source equipment (PSE). These PoE devices make centralized power supply possible and provide up to 15.4 watts of power per port. Advantech EKI PoE devices can be used to power IEEE 802.3af compliant powered devices (PD) through Ethernet cable and eliminate the need for additional power wiring. Advantech EKI PoE devices come equipped with all the standard features of the EKI family. Furthermore, they offer a 24/48 V_{DC} redundant power input design and is secured with a double protection mechanism; Power Polarity Reverse Protect and an Overload Current Resettable Fuse. Advantech EKI PoE devices come with compact metal housing that rates IP30 to help against from dusty industrial environments.

Specifications

Communications

- **Standard** IEEE 802.3, 802.3u, 802.3x, 802.3af
- **LAN** 10/100Base-T (X)
- **Transmission Distance** Up to 100 m
- **Transmission Speed** Up to 100 Mbps

Interface

- **Connectors** PoE Ports: 4 (Ports 1 ~ 4)
  Ethernet ports: 1 (Port 5 ~ Port 8), EKI-2525PA
  Ethernet ports: 4 (Port 5 ~ Port 8), EKI-2528PAI
  6-pin removable screw terminal (power & relay)
- **LED Indicators** P1, P2, P-Fail
  10/100TX: Link/Activity, Duplex/Collision

Power

- **Power Consumption** EKI-2525PA: 62.5 W (Full load PoE)
  EKI-2528PAI: 65 W (Full load PoE)
- **Power Input** 24/48 V_{DC}, redundant dual inputs
- **Power Output** 15.4 W at 48 V (per PoE port)
- **Fault Output** 1 Relay Output

Mechanism

- **Dimensions (W x H x D)** 48.6 x 140 x 95 mm (1.91" x 5.51" x 3.74")
- **Enclosure** IP30, Metal shell with solid mounting kits
- **Mounting** DIN-rail, Wall

Protection

- **Reverse Polarity** Present
- **Overload current** Present

Environment

- **Operating Temperature** -10 ~ 60°C (14 ~ 140°F) (EKI-2525PA)
  Wide temp. model -40 ~ 75°C (-40 ~ 167°F) (EKI-2528PAI)
- **Storage Temperature** -40 ~ 85°C (-40 ~ 185°F)
- **Operating Humidity** 5 ~ 95% (non-condensing)
- **Storage Humidity** 0 ~ 95% (non-condensing)
- **MTBF** 440,132 hours

Certification

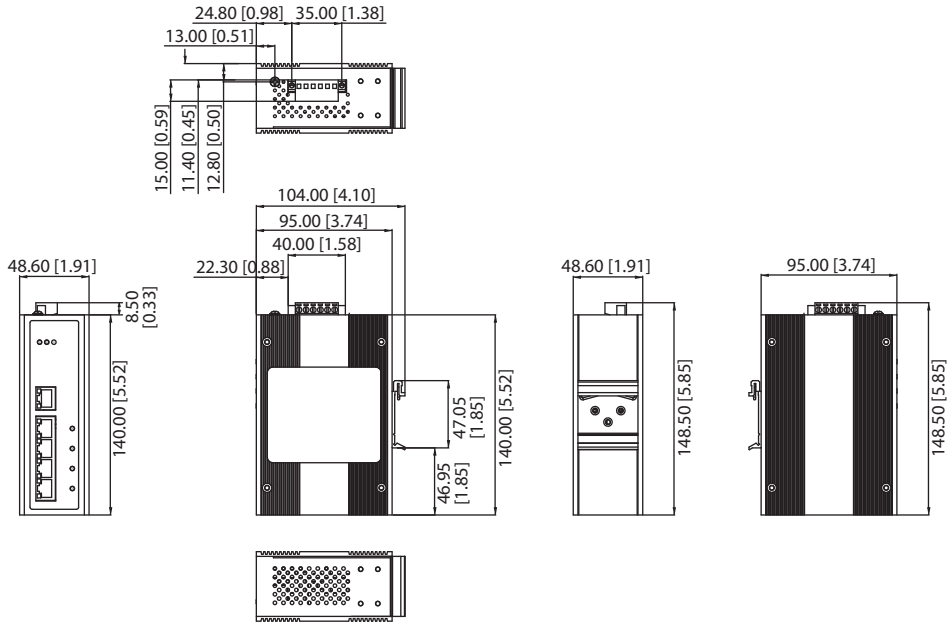
- **Safety** UL508
- **EMI** FCC Part 15 Subpart B Class A, EN 55022 Class A
- **EMS** EN 61000-4-2
  EN 61000-4-3
  EN 61000-4-4
  EN 61000-4-5
  EN 61000-4-6
  EN 61000-4-8
- **Shock** IEC 60068-2-27
- **Freefall** IEC 60068-2-32
- **Vibration** IEC 60068-2-6
- **Patent** http://www.advantech.com/legal/patent

Last updated : 23-Aug-2016

Dimensions

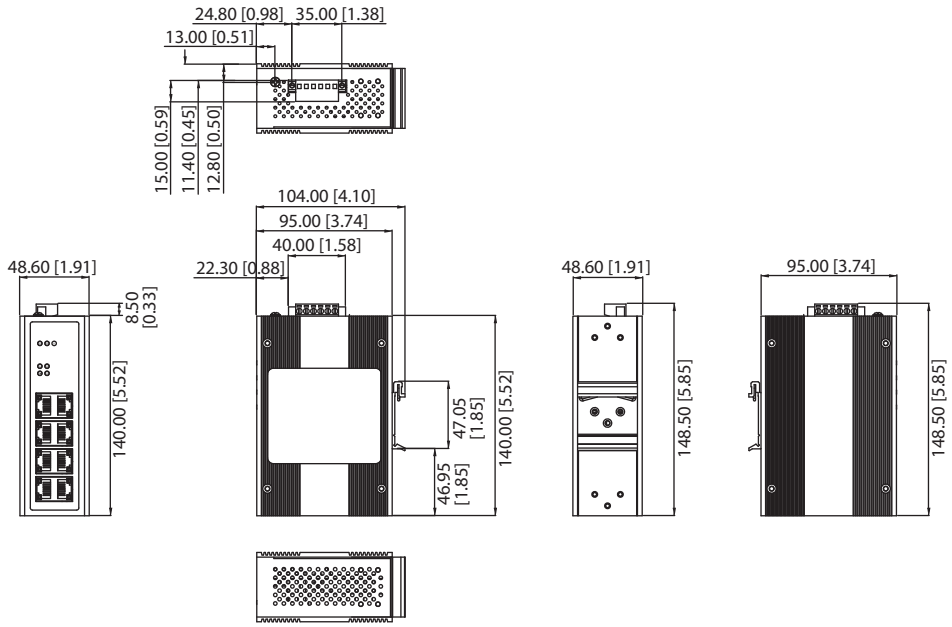
Unit: mm [inch]

EKI-2525PA



Panel Cut-out Dimensions: 104 x 140 x 48.6 mm (4.1" x 5.52" x 1.91")

EKI-2528PAI



Panel Cut-out Dimensions: 104 x 140 x 48.6 mm (4.1" x 5.52" x 1.91")

Ordering Information

- **EKI-2525PA** 5-port Switch with 4 port-PoE and 24/48 V_{DC} Power Input
- **EKI-2528PAI** 8-port Switch with 4 port-PoE and 24/48 V_{DC} Power Input (Wide Temp)

EKI-2701HPI

IEEE 802.3af/at Gigabit PoE+ Injector with Wide Temperature

NEW

Features

- Supports 10/100/1000Base-T (X) for PoE+ OUT and Data IN
- IEEE 802.3af/at compliant, supports a full 30 watt output
- Power input (24 ~ 48 V_{DC}), inject 30 W for each port
- Provides slim size and DIN-rail/Wall mount with IP30 metal mechanism
- Supports operating temperatures from -40 to 75°C

Introduction

With the technology of PoE (Power over Ethernet), we can transfer both data and electrical power to Ethernet-enabled devices using a standard CAT5 cable. EKI-2701HPI is compliant IEEE 802.3af/at and inject 30W for PD device. This product can operate in a wide range of Temp. between -40 to 75°C and support wide power input range between 24 to 48 V_{DC} .

Specifications

Communications

- **Standard** IEEE 802.3, 802.3u, 802.3x, 802.3af/at, 802.3ab
- **LAN** 10/100/1000Base-T (X)
- **Transmission Distance** Up to 100 m
- **Transmission Speed** up to 1000 Mbps

Interface

- **Connectors** PoE OUT: RJ45
DATA IN: RJ45
6-pin removable screw terminal
- **LED Indicators** PWR1, PWR2, PoE status, Link/Activity

Power

- **Power Consumption** Max. 33.36 W @ 24 V_{DC} (Full load PoE)
- **Power Input** 24 ~ 48 V_{DC}, redundant dual power inputs
- **Power Output** 30 W @ 55 V_{DC}

Mechanism

- **Dimensions (W x H x D)** 37 x 140 x 95 mm (1.46" x 5.51" x 3.74")
- **Enclosure** IP30, Metal shell with solid mounting kits
- **Mounting** DIN-rail, Wall

Protection

- **Reverse** Present
- **Overload Current** Present

Environment

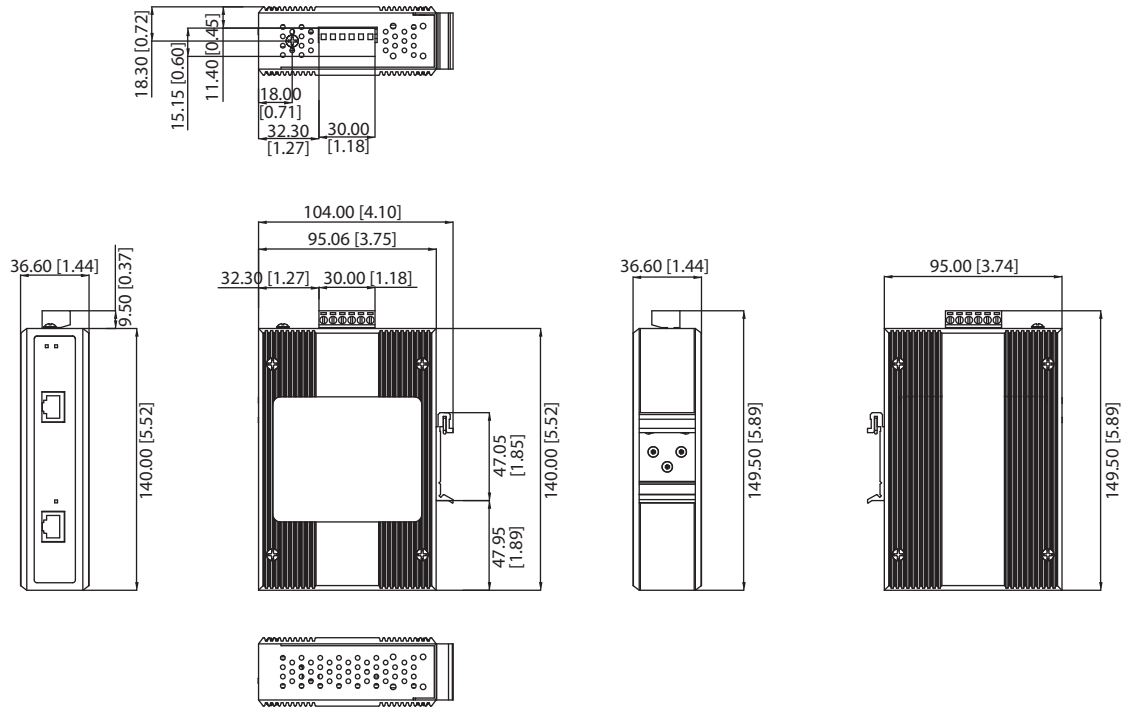
- **Operating Temperature** -40 ~ 75°C (-40 ~ 167°F)
- **Storage Temperature** -40 ~ 85°C (-40 ~ 185°F)
- **Operating Humidity** 5 ~ 95% (non-condensing)
- **Storage Humidity** 0 ~ 95% (non-condensing)
- **MTBF** 1,419,817 hours

Certification

- **Safety** UL508
- **EMI** FCC Part 15 Subpart B Class A, EN 55022 Class A
- **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
- **Shock** IEC 60068-2-27
- **Freefall** IEC 60068-2-32
- **Vibration** IEC 60068-2-6
- **Patent** http://www.advantech.com/legal/patent

Dimensions

Unit: [mm]



Panel Cut-out Dimensions: 104 x 140 x 36.6 mm (4.1" x 5.52" x 1.44")

Ordering Information

- **EKI-2701HPI** PoE+ Injector, supports a full 30 W output

EKI-2701PSI

Industrial PoE Splitter with Wide Temperature

Features

- Supports 10/100/1000 Base-TX for PoE in and Data out
- IEEE 802.3af compliant split power/data from PoE equipment
- Power isolation and short circuit protection for power output
- Supports output power up to 12.95 W at 24 V_{DC}
- Provides slim size and DIN-rail/Wall mount with IP30 metal mechanism
- Supports operating temperatures from -40 to 75°C

Introduction

With the technology of PoE (Power over Ethernet), we can transfer both data and electrical power to Ethernet-enabled devices using a standard Ethernet CAT5 cable, EKI-2701PSI plays the role of powered device (PD) and splits power from PoE to Ethernet devices. In this case, both power and data can be transmitted up to 328 feet (100m) from power source equipment (PSE). This product can operate in a wide range of temperature between -40 and 75°C, and the rugged hardware design makes EKI-2701PSI perfect to ensure your PoE Ethernet equipment can meet industrial applications demanding.

Specifications

Communications

- **Standard** IEEE 802.3, 802.3u, 802.3af, 802.3ab
- **LAN** 10/100/1000 Base-TX
- **Transmission Distance** Up to 100 m
- **Transmission Speed** up to 1000 Mbps

Interface

- **Connectors** PoE IN: RJ-45
  DATA OUT: RJ-45
  6-pin removable screw terminal (power output)
- **LED Indicators** Power
  Link/Activity, Duplex/Collision

Power

- **Power Consumption** Max. 17.76 W
- **Power Input** 44 ~ 57 V_{DC}
- **Power Output** 12.95 W @ 24 V_{DC}

Mechanism

- **Dimensions (W x H x D)** 37 x 140 x 95 mm (1.46" x 5.51" x 3.74")
- **Enclosure** IP30, Metal shell with solid mounting kits
- **Mounting** DIN-rail, Wall

Protection

- **Overload current** Present

Environment

- **Operating Temperature** -40 ~ 75°C (-40 ~ 167°F)
- **Storage Temperature** -40 ~ 85°C (-40 ~ 185°F)
- **Operating Humidity** 5 ~ 95% (non-condensing)
- **Storage Humidity** 0 ~ 95% (non-condensing)
- **MTBF** 440,132 hours

Certifications

- **Safety** UL 60950-1, CAN/CSA-C22.2 No.60950
- **EMI** FCC Part 15 Subpart B Class A, EN 55022 Class A
- **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
- **Shock** IEC 60068-2-27
- **Freefall** IEC 60068-2-32
- **Vibration** IEC 60068-2-6
- **Patent** http://www.advantech.com/legal/patent

Ordering Information

- **EKI-2701PSI** PoE Splitter w/ Wide Temp

Last updated : 23-Aug-2016

EKI-2726FHPI

4G+2 SFP W/ 4 IEEE 802.3 High Power PoE Industrial Wide Temperature Switch

NEW

Features

- All Gigabit Ethernet ports for 4 Copper and 2 SFP
- Back-plane (Switching Fabric): 12Gbps
- Embedded 4 ports PoE inject function
- Provide 30W at 55V power output
- Redundant Power Design
- IP30 Chassis Design
- Supports operating temperatures from -40 ~ 75°C

Introduction

The EKI-2726 FHPI switch has 4 x 10/100/1000BASE-T Ethernet ports with PoE+ function and 2 x SFP sockets, it has been designed to work within a wide operating temperature range.This cost-effective solution, meets the high reliability requirements and demands of industrial applications. The equipment also meets the IEEE 802.3 at standard and can provide 30Watts output per PoE port.

Specifications

Communications

Standard	IEEE 802.3, 802.3u, 802.3x, 802.3af/at, 802.3ab, 802.3z
LAN	10/100/1000Base-T 1000Base-SX/LX/LHX/XD/ZX/EZX
Transmission Distance	Ethernet: Up to 100 m SFP: Up to 110 km (depends on SFP)
Transmission Speed	Copper: 10/100/1000 Mbps, Auto-Negotiation Gigabit Fiber: Up to 1000 Mbps

Interface

Connectors	10/100/1000T(X): RJ-45 x 4 SFP: Gigabit Base x 2
LED Indicators	System: P1, P2, P-Fail, Per port: Link/Activity, Speed, PoE (1 to 4 ports)

Power

Power Consumption	5.5 watts @ 48V_{DC} (Ethernet only)
Power Input	48 V_{DC} (44V_{DC} to 57 V_{DC}), redundant dual inputs
Fault Output	1 Relay Output

Mechanism

Dimensions (W x H x D)	59.6 x 152 x 105 mm (2.35" x 5.98" x 4.13")
Enclosure	IP30, Metal shell with solid mounting kits
Mounting	DIN-rail, Wall

Protection

Power Reverse	Present
Overload Current	Present

Environment

Operating Temperature	-40 ~ 75°C (-40 ~ 167°F)
Storage Temperature	-40 ~ 85°C (-40 ~ 185°F)
Operating Humidity	5 ~ 95% (non-condensing)
MTBF	339,740 hours

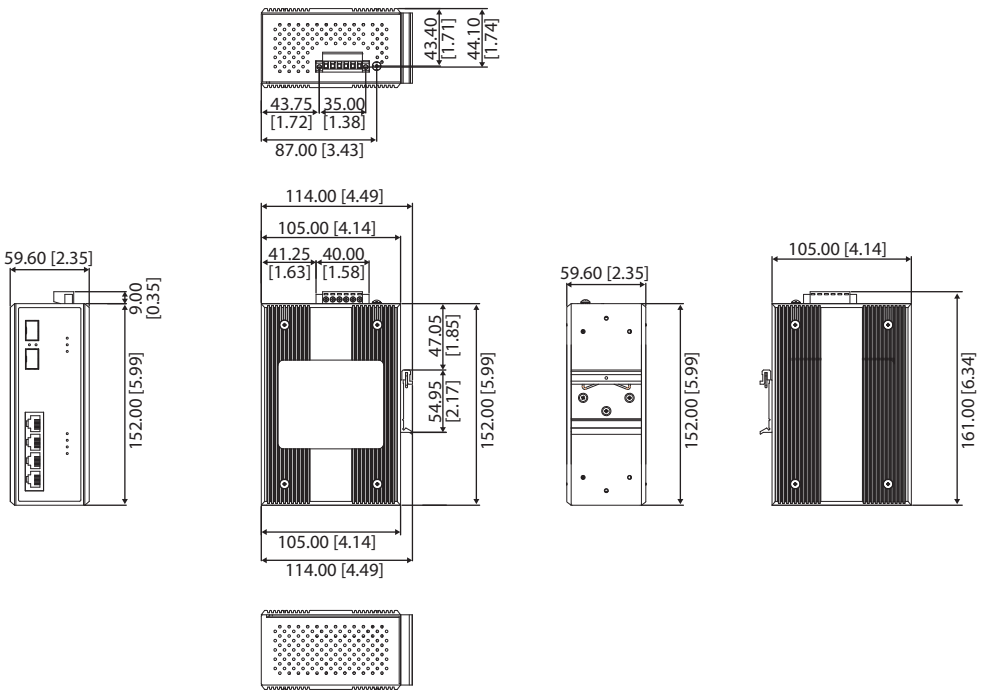
Certification

Safety	UL/cUL508 Class I, Division 2, Groups A, B, C and D
EMI	FCC Part 15 Subpart B Class A, EN 55022 Class A
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
Shock	IEC 60068-2-27
Freefall	IEC 60068-2-32
Vibration	IEC 60068-2-6
Patent	http://www.advantech.com/legal/patent

Last updated : 25-Aug-2016

Dimensions

Unit: [mm]



Panel Cut-out Dimensions: 114.00 x 152.00 x 59.60 mm (4.49" x 5.99" x 2.35")

Ordering Information

- **EKI-2726FHPI** 4G+2 SFP Unmanaged Gigabit Switch with 4-port PoE+(IEEE 802.3af/at)

EKI-3725P

5-port Gigabit Unmanaged PoE Industrial Ethernet Switch

NEW

Features

- Supports 4 IEEE802.3af 15.4W PoE ports
- Supports IEEE 802.3az, Energy Efficient Ethernet standard
  -Automatically powers down ports that have no link
  -Budgets power output for different Ethernet cable length
- Support IEEE 802.1p QoS- VIP port setting
  -Ensures time sensitive data gets delivered efficiently, even during bursts of high data traffic.
  -Ensures video streaming through switch with high priority.
- Supports 9,216 Byte Jumbo Frames
- Supports redundant 24 ~ 48 V_{DC} power input and P-Fail relay
- In Loop detection

Introduction

The EKI-3725P is a new generation product with a green Ethernet design and supports 4 ports IEEE802.3af 15.4W PoE. It features green solutions that automatically adjust power consumption by detecting the link status and cable length. Designed with 1 "VIP" port to get optimal bandwidth for media traffic through VIP ports users can experience better performance multimedia streaming preferred through a prioritized bandwidth setting. The device comes with compact metal housing that is IP40 rated to protect it against dusty industrial environments. The wide power input (21.6 to 52.8 V_{DC}) is designed to operate in areas of unstable power and rugged environments. It also provides an event alarm and in the event of a power failure and connection loop, the intergrated LED will activate the alarm to notify administrators.

Specifications

Communications

- **Standard** IEEE 802.3, 802.3u, 802.3x, 802.1p, 802.3az, 802.3ab, 802.3af
- **LAN** 10/100/1000Base-T(X)
- **Transmission Distance** Up to 100 m
- **Transmission Speed** Up to 1000 Mbps

Interface

- **Connectors** 5 x RJ45 with 4 PoE ports
  6-pin removable screw terminal (power & relay)
- **LED Indicators** P1, P2, P-Fail, Loop detection PoE
  10/100T (X): Link/Activity, Speed

Switch Properties

- **MAC Table Size** 2K
- **Packet Buffer Size** 1M bit
- **Switch Fabric Speed** 10Gbps
- **Jumbo Frame** 9,216 byte

Power

- **Power Consumption** System: 4.51Watts
  PoE budget: 61.6 Watts
- **Power Input** 24 ~ 48 V_{DC}, redundant dual inputs
- **Fault Output** 1 Relay Output

Mechanism

- **Dimensions (W x H x D)** 25.6 x 120 x 83 mm (1.01" x 4.73" x 3.27")
- **Enclosure** IP40, metal shell with solid mounting kits
- **Mounting** DIN-rail, Wall

Protection

- **Reverse Polarity** Present
- **Overload current** Present

Environment

- **Operating Temperature** -10 ~ 60°C (14 ~ 140°F)
- **Storage Temperature** -40 ~ 85°C (-40 ~ 185°F)
- **Operating Humidity** 5 ~ 95% (non-condensing)
- **Storage Humidity** 0 ~ 95% (non-condensing)
- **MTBF** 434,533 hours

Certification

- **Safety** UL 60950-1, CAN/CSA-C22.2 No.60950
- **EMI** FCC Part 15 Subpart B Class A, EN 55011/55022 Class A
- **EMS** EN 61000-4-2 (Level 3)
  EN 61000-4-3 (Level 3)
  EN 61000-4-4 (Level 3)
  EN 61000-4-5 (Level 3)
  EN 61000-4-6 (Level 3)
  EN 61000-4-8 (Level 3)
- **Shock** IEC 60068-2-27
- **Freefall** IEC 60068-2-32
- **Vibration** IEC 60068-2-6
- **Patent** http://www.advantech.com/legal/patent

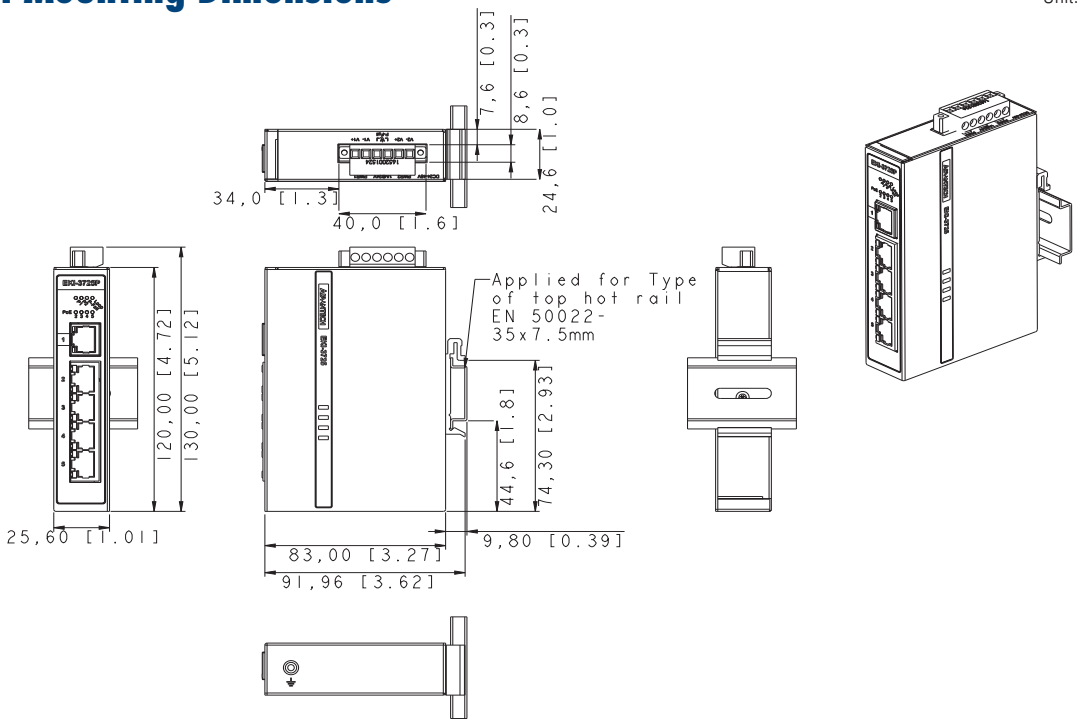
Ordering Information

- **EKI-3725P** 5-port Gigabit Unmanaged Industrial Ethernet PoE Switch

Last updated : 23-Aug-2016

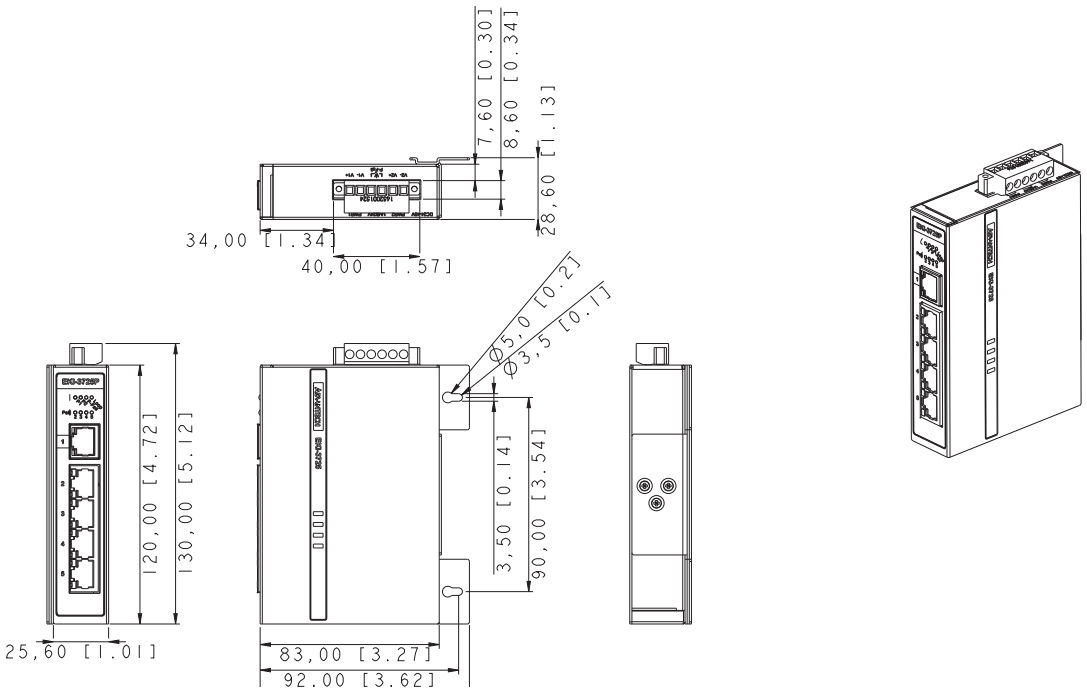
DIN-rail Mounting Dimensions

Unit: mm [inch]



Wall Mounting Dimensions

Unit: mm [inch]



EKI-5624P
EKI-5624PI

4FE with PoE+2GE Industry Ethernet Proview PoE Switch

CE FCC

Features

- Four Fast Ethernet ports comply with IEEE 802.3af/at
- PoE standard and Two Gigabit Ethernet ports
- Communicates with SCADA software via Modbus/TCP
- Communicates with NMS (Networking management system) via SNMP
- Port-based QoS for deterministic data transmission
- -40~65°C operating temperature range (EKI-5624PI)
- EMS level 3 protection for extreme outdoor environments
- IEEE 802.3az Energy Efficient Ethernet (EEE)
- Jumbo Frame Support (Up to 9,216 Bytes)
- Supports redundant 12V~24V (9V ~ 36V) power input and P-Fail relay
- Loop detection

Introduction

The EKI-5624P and EKI-5624PI switches support Power-over-Ethernet on ports 1 to 4. The switch is classified as power source equipment(PSE). Also it is the world's first convergence switches for process control and IT networking management. This series uses Modbus/TCP to communicate with the SCADA software and SNMP to communicate with the NMS (Networking Management System) at the same time, thereby allowing full read control over the devices either for control engineers or for IT. The devices come with the Port-based QoS for deterministic data transmission allows the priority ports to prioritize the traffic coming over those ports and delay the less immediately necessary data over the remaining ports. The switches use the highest quality components, to enable the range to operate in temperatures of between -40 and 75°C along with EMS Level 3 protection to repel electromagnetic interface for industrial resistance. The switches are compliant E-mark for in-vehicle application and surveillance system.

Specifications

Communications

- **Standard** IEEE 802.3af/at, 802.3, 802.3u, 802.3ab, 802.3az, 802.3x, 802.1p
- **LAN** 10/100BaseT(X),10/100/1000BaseT(X)
- **Transmission Distance** Up to 100 m
- **Transmission Speed** Up to 1000 Mbps

Interface

- **Connectors** 4 x 10/100BaseT(X) with PoE + 2 x 10/100/1000 Base T(X)
  6-pin removable screw terminal (power & relay)

LED Indicators

- **System LED** P1, P2, P-Fail, Loop, PoE
- **Port LED status** 10/100 BaseT(X) or 10/100/1000Base T(X): LNK /ACT, Speed, PoE port

Physical

- **Enclosure** Metal / Aluminum Shell with solid mounting kits
- **Protection Class** IP30
- **Installation** DIN-Rail and Wall-Mount
- **Dimensions (W x H x D)** 74 x 152 x 105 mm (2.913 x 5.984 x 4.137) inch

Environment

- **Operating Temperature** Wide Temp Models: -40 to 75°C (-40 to 167°F)
  Standard Models: -25 to 60°C (-4 to 140°F)
- **Storage Temperature** -40 ~ 85°C (-40 ~ 185°F)
- **Relative Humidity** 10 ~ 95% (non-condensing)

Switch Properties

- **MAC Address** 2K entries
- **Packet Buffer** 1 Mbit
- **Switching Capacity** 4.8 Gbps

Power

- **Power Consumption** 4.2w (System)
- **Power Input** 12-24 Vdc, (7A-3A)
- **Power Budget** 60w @ 24v
  50w @ 12v

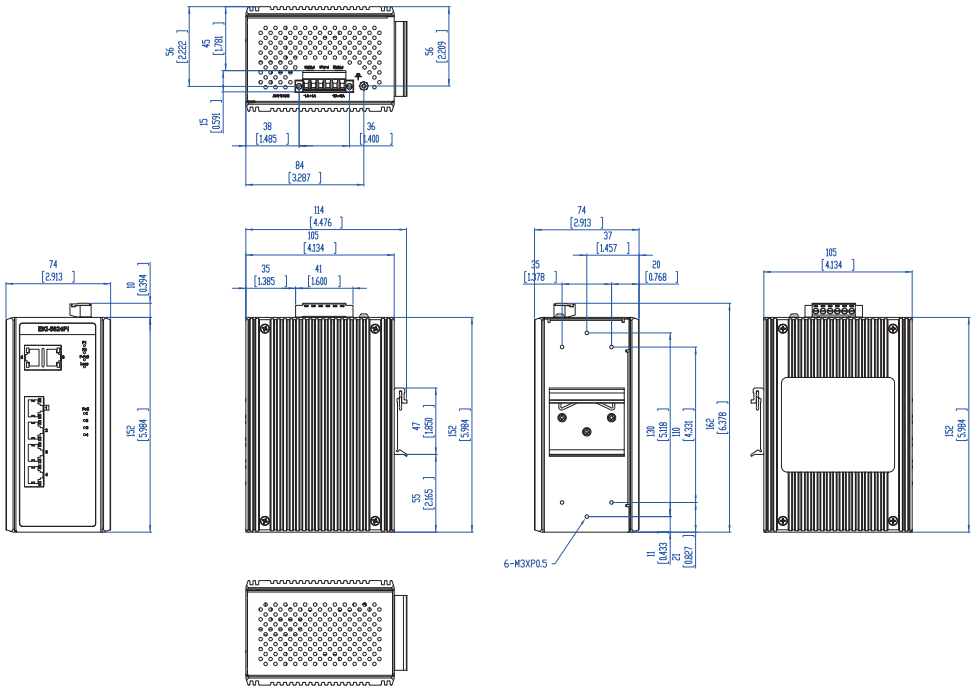
Certification

- **Safety** IEC/EN 60950, UL61010-2-201, e-Mark Comply with *Class 1 Division 2, * IECEx, *ATEX
- **EMC** CE, FCC, e-Mark
- **EMI** EN 55011/ 55022 Class A, EN 61000-6-4, FCC Part 15 Subpart B Class A
- **EMS** EN 55024/ EN 61000-6-2
  EN 61000-4-2 (ESD) Level 3
  EN 61000-4-3 (RS) Level 3;
  EN 61000-4-4 (EFT) Level 3
  EN 61000-4-5 (Surge) Level 3;
  EN 61000-4-6 (CS) Level 3
  EN 61000-4-8 (Magnetic Field) Level 3
- **Shock** IEC 60068-2-27
- **Freefall** IEC 60068-2-32
- **Vibration** IEC 60068-2-6
- **Patent** http://www.advantech.com/legal/patent

Last updated : 23-Aug-2016

Dimensions

Unit: mm [inch]



Ordering Information

- **EKI-5624P** 4 x 10/100BaseT(X) with PoE + 2GE , -25 to 60°C operating temperature
- **EKI-5624PI** 4 x 10/100BaseT(X) with PoE + 2GE , -40 to 65°C operating temperature

EKI-5729P
EKI-5729PI

8 GE with PoE + 2GE Industry Ethernet Proview PoE Switch

Features

- Full Gigabit Ethernet ports and comply with IEEE
- 802.3af/at PoE standard
- Communicates with SCADA software via Modbus/TCP
- Communicates with NMS (Networking management system) via SNMP
- Port-based QoS for deterministic data transmission
- -40 to 65°C operating temperature range (EKI-5729PI)
- EMS level 3 protection for extreme outdoor environments
- IEEE 802.3az Energy Efficient Ethernet (EEE)
- Provides 5/6 Fast Ethernet ports with 8 PoE ports
- Jumbo Frame Support (Up to 9,216 Bytes)
- Supports redundant 12V~24V (9V ~ 36V) power input and P-Fail relay
- Loop detection

CE FCC

Introduction

The EKI-5729P and EKI-5729PI switches support Power-over-Ethernet on ports 1 to 8. The switch is classified as power source equipment (PSE). Also it is the world's first convergence switches for process control and IT networking management. This series uses Modbus/TCP to communicate with the SCADA software and SNMP to communicate with the NMS (Networking Management System) at the same time, thereby allowing full read control over the devices either for control engineers or for IT. The devices come with the Port-based QoS for deterministic data transmission allows the priority ports to prioritize the traffic coming over those ports and delay the less immediately necessary data over the remaining ports. The switches use the highest quality components, to enable the range to operate in temperatures of between -40 and 75°C along with EMS Level 3 protection to repel electromagnetic interface for industrial resistance. The switches are compliant E-mark for in-vehicle application and surveillance system.

Specifications

Communications

- **Standard** IEEE 802.3af/at, 802.3, 802.3u, 802.3ab, 802.3az, 802.3x, 802.1p
- **LAN** 10/100/1000Base-T(X)
- **Transmission Distance** Up to 100 m
- **Transmission Speed** Up to 1000 Mbps

Interface

- **Connectors** 8 x 10/100/1000 BaseT(X) with PoE + 2 x 10/100/1000 BaseT(X)
  6-pin removable screw terminal (power & relay)

LED Indicators

- **System LED** P1, P2, P-Fail, Loop, PoE
- **Port LED status** 10/100/1000Base T(X): LNK /ACT, Speed, PoE port

Physical

- **Enclosure** Metal / Aluminum Shell with solid mounting kits
- **Protection Class** IP30
- **Installation** DIN-Rail and Wall-Mount
- **Dimensions (W x H x D)** 74 x 152 x 105 mm (2.913 x 5.984 x 4.137) inch

Environment

- **Operating Temperature** Wide Temp Models: -40 to 75° C (-40 to 167°F)
  Standard Models: -25 to 60° C (-4 to 140°F)
- **Storage Temperature** -40 ~ 85°C (-40 ~ 185°F)
- **Relative Humidity** 10 ~ 95% (non-condensing)

Switch Properties

- **MAC Address** 8K entries
- **Packet Buffer** 4.1 Mbit
- **Switching Capacity** 20 Gbps

Power

- **Power Consumption** 6w (System)
- **Power Input** 12-24 Vdc, (7A-3A)
- **Power Budget** 60w @ 24v
  50w @ 12v

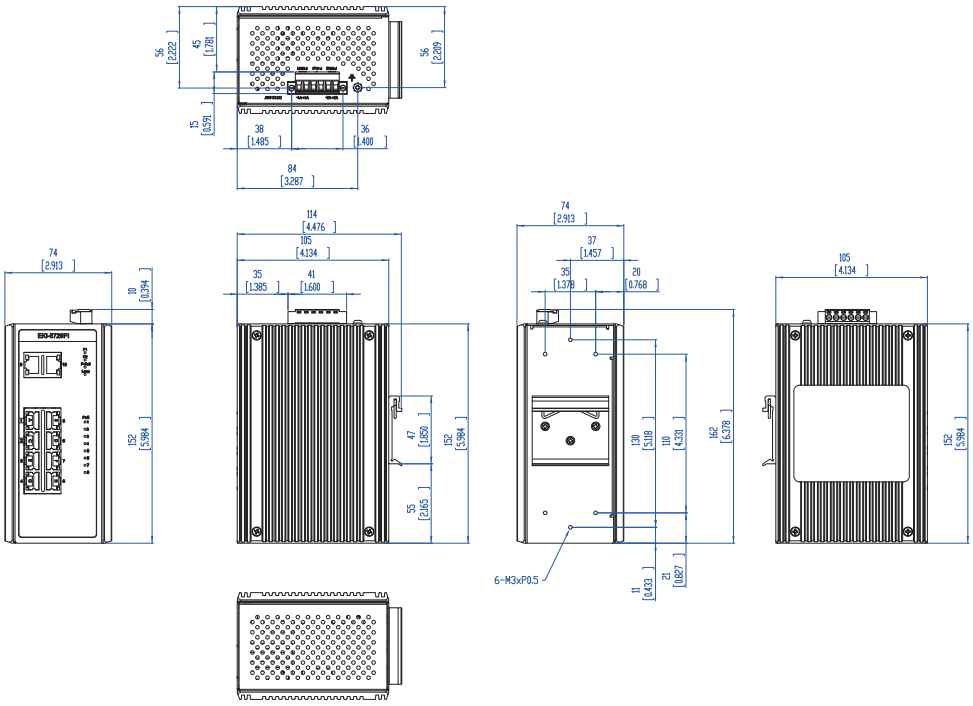
Certification

- **Safety** IEC/EN 60950, UL61010-2-201, e-Mark Comply with *Class 1 Division 2, * IECEx, *ATEX
- **EMC** CE, FCC, e-Mark
- **EMI** EN 55011/ 55022 Class A, EN 61000-6-4, FCC Part 15 Subpart B Class A
- **EMS** EN 55024/ EN 61000-6-2
  EN 61000-4-2 (ESD) Level 3
  EN 61000-4-3 (RS) Level 3;
  EN 61000-4-4 (EFT) Level 3
  EN 61000-4-5 (Surge) Level 3;
  EN 61000-4-6 (CS) Level 3
  EN 61000-4-8 (Magnetic Field) Level 3
- **Shock** IEC 60068-2-27
- **Freefall** IEC 60068-2-32
- **Vibration** IEC 60068-2-6
- **Patent** http://www.advantech.com/legal/patent

Last updated : 23-Aug-2016

Dimensions

Unit: mm [inch]



Ordering Information

- **EKI-5729P** 8 x 10/100/1000BaseT(X) with PoE + 2GE , -25 to 60°C operating temperature
- **EKI-5729PI** 8 x 10/100/1000BaseT(X) with PoE + 2GE , -40 to 65°C operating temperature

EKI-7428G-4CI
EKI-7428G-4CPI

24G+4G Combo port L2 Managed Switch
24G+4G Combo port L2 Managed PoE Switch

Features

- 24 x IEEE 802.3 af/at PoE Gigabit ports + 4 x Gigabit Copper/SFP combo ports, provide up to 30Watts per port
- SFP socket for Easy and Flexible Fiber Expansion
- Management: SNMP v1/v2c/v3, WEB, Telnet, Standard MIB
- IXM function enables fast deployment
- Security:802.1x (Port-Based, MD5/TLS/TTLS/PEAP Encryption),HTTPS,SSH and SNMPv3
- Redundancy: Gigabit X-Ring Pro (ultra high-speed recovery time < 20 ms), RSTP/STP (802.1w/1D),MSTP
- 48V_{DC} power input (46-57 V_{DC} for POE af , 53 -57 V_{DC} is recommended for at) and 2 relay output
- -40 ~ 70°C wide-range operating temperature

Introduction

The EKI-7428G is an industrial-class layer 2 full managed switch including 24 Gigabit ports and 4 Gigabit combo ports. It is designed for rack-mount installation, and can be deployed in demanding industrial environments. It is suitable for edge to core industrial networks. It integrates Layer 2 switching software, which is optimized for scale and performance, delivering wire speed across all ports up to 56 Gbps for layer 2 traffic forwarding. In addition, the PoE design provides up to 30 watts per port to fulfill high power consumption device, moreover, it supports high reliability with -40 ~ 70°C operating temperatures, and dual 48 V_{DC} input power design ensure vital network capabilities with minimum downtime. It is also embedded with Advantech IXM, which benefits users by giving them fast deployment and can dramatically save engineer's time and costs.

Specifications

Communications

- **Standard** IEEE 802.3, 802.3u, 802.3x, 802.3z, 802.1D, 802.1w, 802.1p, 802.1Q, 802.1X, 802.3ad, 802.3ab
- **LAN** 10/100/1000Base-T (X), Optional 100Base-FX, 1000Base-SX/LX/LHX/XD/ZX/EZX
- **Transmission Distance** Ethernet: Up to 100 m (4- wire Cat.5e, Cat.6 RJ45 cable suggested for Gigabit port)
  SFP: Up to 110 km (depends on SFP)
- **Transmission Speed** Gigabit Copper: 10/100/1000 Mbps, Auto-Negotiation
  Gigabit Fiber: Up to 1000 Mbps

Interface

- **Connectors** 24 x RJ45 (Ethernet)
  4 x RJ45/SFP (mini-GBIC) combo ports
  4-pin removable screw terminal (Power)
  3-pin removable screw terminal (Relay)
- **LED Indicators** 10/100T (X): Link/Activity, Duplex/Collision
  Gigabit Copper: Link/Activity, Speed (1000 Mbps)
  SFP: Link/Activity
- **Console** RS-232 (RJ45)

Network Management

- **Configuration** Web browser, Telnet, Serial console, TFTP, SNMPv1/v2c/v3, Port Speed/Duplex Configuration, IPv6
- **VLAN** IEEE 802.1Q, GVRP, Port-based VLAN
- **Redundancy** Advantech X-Ring, 802.1w/D RSTP/STP
- **Security** IP Access security, port security, DHCP client, Port and IP Binding, 802.1X Port Access Control,
- **Traffic Control** IGMP Snooping/Query for multicast group management, Port Trunking, Static/802.3ad, LACP Rate limit and storm control, IEEE 802.1p QoS CoS/TOS/DSCP priority queuing, IEEE 802.3x flow control
- **Diagnostics** Port Mirroring, Real-time traffic statistic, MAC Address Table, SNTP, Syslog, E-Mail Alert, SNMP Trap, RMON

Mechanism

- **Enclosure** IP30, metal shell with solid mounting kits
- **Dimensions (W x H x D)** 438 x 43.6 x 259.20 mm (17.24" x 1.72" x 10.2")
- **Mounting** 1U 19" Rack mount

Power

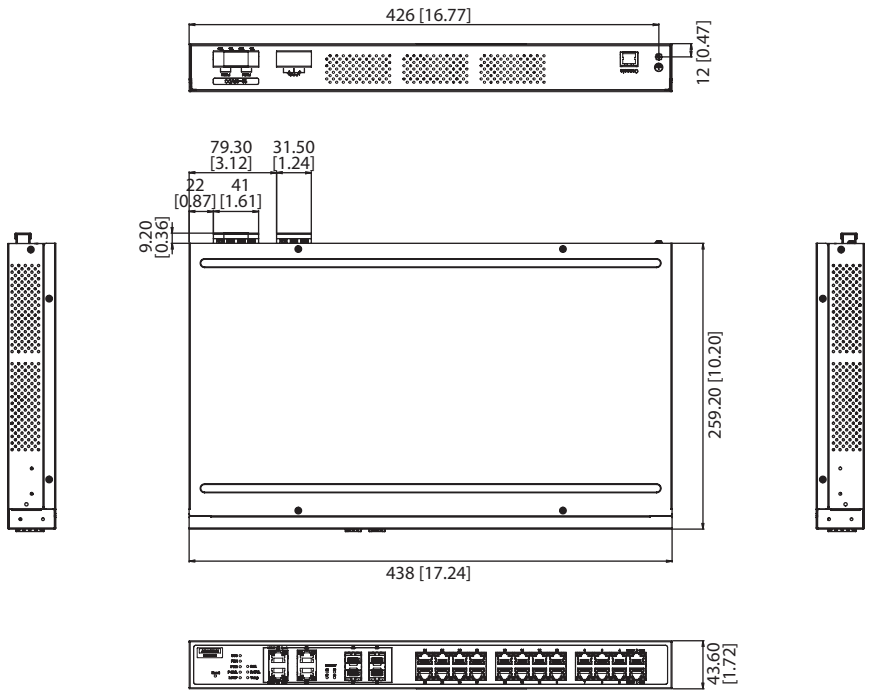
- **Power Consumption** 20W @ 24V (EKI-7428G-4CI)
  20W @ 48V (EKI-7428G-4CPI)
- **Power Budget** 685W (EKI-7428G-4CPI)
- **Power Input** EKI-7428G-4CI 12-48 V_{DC}
  EKI-7428G-4CPI 48 V_{DC} (46 to 57 V_{DC}),
  53 -57 V_{DC} is recommended for 802.3at
- **Fault Output** 2 Relay Outputs

Protection

- **Power Reverse** Present
- **Overload Current** Present
- **Environment**
- **Operating Temperature** -40 ~ 70°C (-40 ~ 158°F)
- **Storage Temperature** -40 ~ 85°C (-40 ~ 185°F)
- **Operating Humidity** 10 ~ 95% (non-condensing)
- **Storage Humidity** 10 ~ 95% (non-condensing)
- **MTBF** EKI-7428-4CI: 787,940 hours
  EKI-7428G-4CPI: 424,517 hours

Dimensions

Unit: mm [inch]



- **Certification**
- **Safety** UL 61010-2-201
- **EMI** CE FCC EN55022 Class A
- **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
- **Shock** IEC 60068-2-27
- **Freefall** IEC 60068-2-32
- **Vibration** IEC 60068-2-6
- **Railway Track Side** EN 50121-4
- **Patent** http://www.advantech.com/legal/patent

Ordering Information

- **EKI-7428G-4CI-AE** 24GE+4G Combo Port Managed Ethernet Switch w/ Wide Temp
- **EKI-7428G-4CPI-AE** 24G+4G Combo Port POE Managed Ethernet Switch w/ Wide Temp

EKI-7659CPI

8+2G Port Gigabit Managed Redundant Industrial PoE Switch with Wide Temperature

Features

- 2 Gigabit Copper/SFP combo ports, plus 8 PoE injector ports
- SFP socket for Easy and Flexible Fiber Expansion
- Redundancy: Gigabit X-Ring Pro (ultra high-speed recovery time < 20 ms), RSTP/STP (802.1w/1D)
- Management: Web, Telnet, Serial Console, SNMP
- Control: VLAN/GVRP, QoS, IGMP Snooping/Query, LACP, Rate Limit
- Security: IP/MAC and port binding, DHCP Server, IP access list, 802.1X, SSL SNMPv3
- Diagnostic: Port Statistic, Port Mirroring, RMON, Trap, Email Alert, Syslog
- Dual 48 V_{DC} power input and 1 relay output
- Supports wide operating temperatures -40 ~ 75°C

Introduction

The EKI-7659CPI supports eight Power over Ethernet (PoE) ports and two Gigabit combo ports. The PoE device helps realize a centralized power supply solution and provides up to 15.4 watts of power per port. To create reliability in your network, the EKI-7659CPI comes equipped with a proprietary redundant network protocol -- X-Ring Pro that was developed by Advantech, which provides users with an easy way to establish a redundant Ethernet network with ultra high-speed recovery time less than 20 ms. Furthermore, EKI-7659CPI also supports many advanced network standards to optimize network performance, ease maintenance issues, and secure network safety.

Specifications

Communications

- **Standard** IEEE 802.3, 802.3u, 802.3x, 802.3z, 802.3ad, 802.3ab, 802.3af, 802.1D, 802.1w, 802.1p, 802.1Q, 802.1X
- **LAN** 10/100/1000Base-T (X), Optional 100Base-FX, 1000Base-SX/LX/LHX/XD/ZX/EZX
- **Transmission Distance** Ethernet: Up to 100 m (4- wire Cat.5e, Cat.6 RJ45 cable suggested for Gigabit port)
  SFP: Up to 110 km (depends on SFP)
- **Transmission Speed** Ethernet: 10/100 Mbps Auto-Negotiation
  Gigabit Copper: 10/100/1000 Mbps, Auto-Negotiation
  Gigabit Fiber: Up to 1000 Mbps

Interface

- **Connectors** 8 x RJ45 (Ethernet)
  2 x RJ45/SFP (mini-GBIC) combo ports
  6-pin removable screw terminal (Power&Relay)
- **LED Indicators** System: PWR, PWR1, PWR2, R.M., P-Fail
  10/100T (X): Link/Activity, Duplex/Collision
  Gigabit Copper: Link/Activity, Speed (1000 Mbps)
  SFP: Link/Activity
- **Console** RS-232 (RJ45)

Network Management

- **Configuration** Web browser, Telnet, Serial console, TFTP, SNMPv1/v2c/v3, Port Speed/Duplex Configuration, IPv6
- **VLAN** IEEE 802.1Q, GVRP, Port-based VLAN
- **Redundancy** Advantech X-Ring Pro (Recovery time < 20 ms at 250 pcs full loading ring structure), Dual Homing, Dual Ring, Couple Ring, 802.1w/D RSTP/STP
- **Security** IP Access security, port security, DHCP Server, Port and IP Binding, 802.1X Port Access Control, SSL
- **Traffic Control** IGMP Snooping/Query for multicast group management, Port Trunking, Static/802.3ad, LACP Rate limit and storm control, IEEE 802.1p QoS CoS/TOS/DSCP priority queuing, IEEE 802.3x flow control
- **Diagnostics** Port Mirroring, Real-time traffic statistic, MAC Address Table, SNTP, Syslog, E-Mail Alert, SNMP Trap, RMON

Mechanism

- **Enclosure** IP30, metal shell with solid mounting kits
- **Dimensions (W x H x D)** 79 x 152 x 105 mm (3.11" x 5.98" x 4.13")
- **Mounting** DIN-rail, Wall

Power

- **Power Consumption** 116 W (Full load PoE)
- **Power Input** 48 V_{DC}, redundant dual power input
- **Power Output** 15.4W at 48V (per PoE port)
- **Fault Output** 1 Relay Output

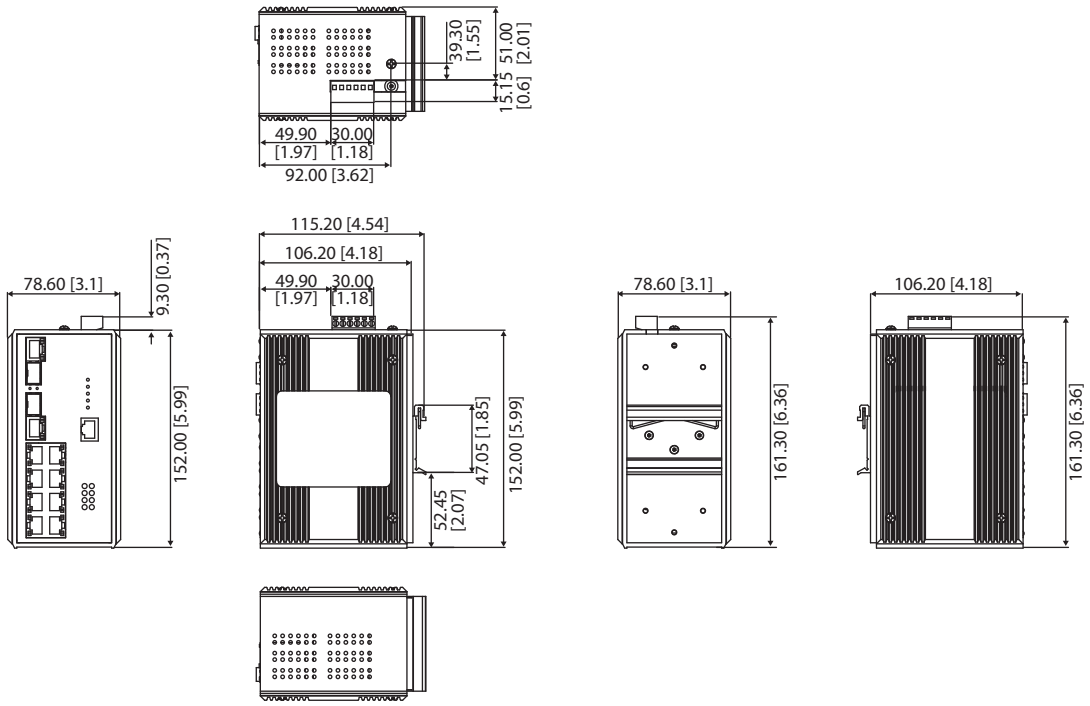
Protection

- **Power Reverse** Present
- **Overload Current** Present

Last updated : 23-Aug-2016

Dimensions

Unit: mm [inch]



Panel Cut-out Dimensions: 115.2 x 152 x 78.6 (4.54" x 5.99" x 3.1")

Environment

- **Operating Temperature** -40 ~ 75°C (-40 ~ 167°F)
- **Storage Temperature** -40 ~ 85°C (-40 ~ 185°F)
- **Operating Humidity** 5 ~ 95% (non-condensing)
- **Storage Humidity** 0 ~ 95% (non-condensing)
- **MTBF** 190,200 hours

Certification

- **Safety** UL 60950-1, CAN/CSA-C22.2 No.60950
- **EMI** FCC Part 15 Subpart B Class A, EN 55022 Class A
- **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
- **Shock** IEC 60068-2-27
- **Freefall** IEC 60068-2-32
- **Vibration** IEC 60068-2-6
- **Patent** http://www.advantech.com/legal/patent

Ordering Information

- **EKI-7659CPI** 8FE + 2G Combo Port Managed PoE Ethernet Switch w/Wide Temp

EKI-7710E-2CP
EKI-7710E-2CPI

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

Features

- 8 x IEEE 802.3 af/at PoE 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
- -40 ~ 75°C wide-range operating temperature (EKI-7710E-2CPI)
- Dual 24~48 V_{DC} power input and 1 relay output

Introduction

The EKI-7710E-2CP/2CPI supports eight Power over Ethernet (PoE) ports and two Gigabit combo ports. It can provide up to 30 watts per port to fulfill high power consumption PD (Power Device). 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 / PoE

Environment

- **Operating Temperature**: -40 ~ 75°C (-40 ~ 167°F) 7710E-2CPI
-10 ~ 60°C (-40 ~ 140°F) 7710E-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*
- **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

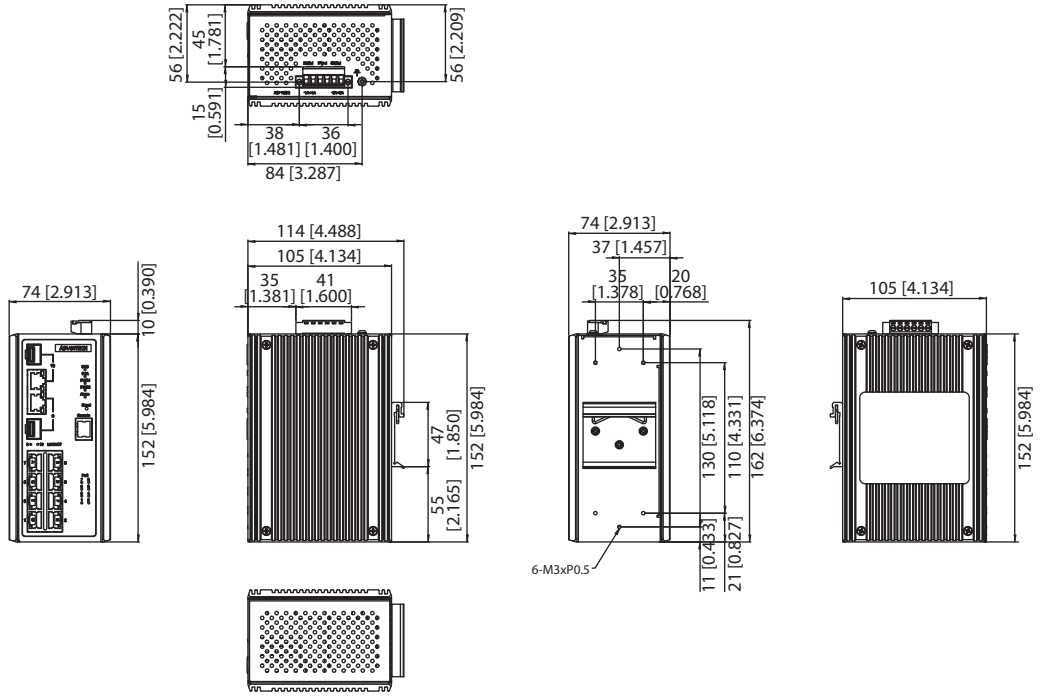
- **Patent**: http://www.advantech.com/legal/patent

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]



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-2CPI-AE** — 8FE + 2G Combo Port Managed PoE Ethernet Switch w/Wide Temp
- **EKI-7710E-2CP-AE** — 8FE + 2G Combo Port Managed PoE Ethernet Switch

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/TTLS/PEAP Encryption), RADIUS
- Management: SNMP v1/v2c/v3, WEB, Telnet, Standard MIB, Private MIB
- -40 ~ 75°C wide-range operating temperature (EKI-7710G-2CPI)
- Dual 24~48 V_{DC} power input and 1 relay output

Introduction

The EKI-7710G-2CP/2CPI supports eight Gigabit Power over Ethernet (PoE) ports and two Gigabit combo ports. It can provide up to 30 watts per port to fulfill high power consumption PD (Power Device). 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-7710G series also support NMS to help IT managers with networking maintenance and failure prevention. Finally, the EKI-7710G 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 10/100/1000Base-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, 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*
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

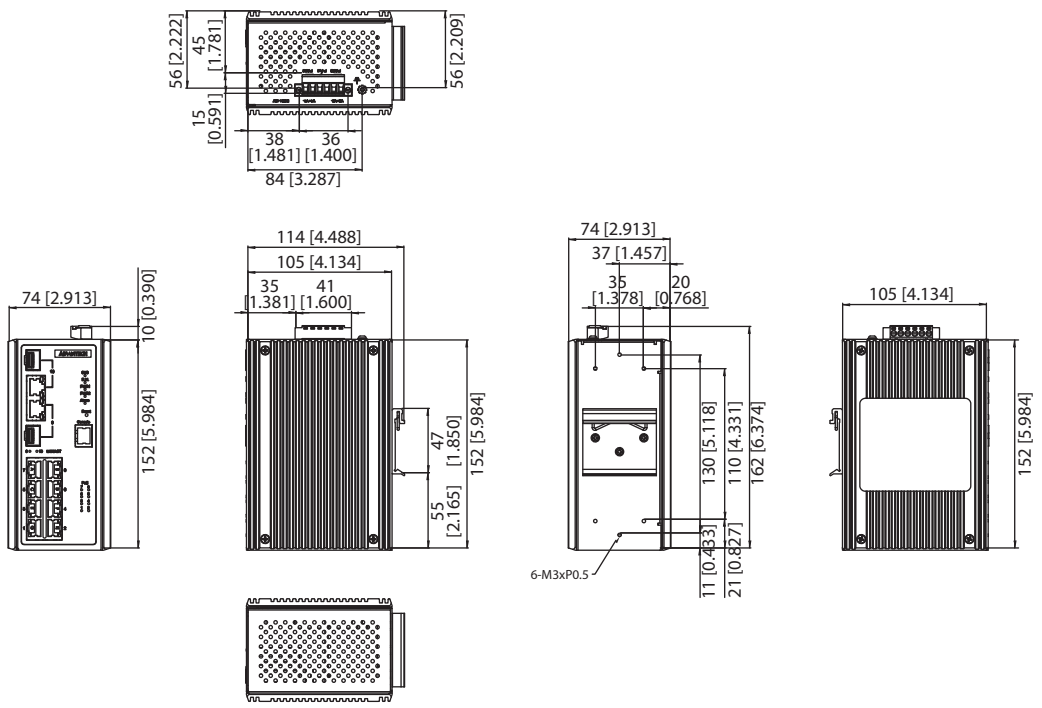
- **Patent** http://www.advantech.com/legal/patent

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]



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-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

EKI-9312P

Industrial-Class 12 Port Managed DIN Rail Switch Full Gigabit Switch with PoE/PoE+

Features

- All Gigabit connections support dual ring protection and non-blocking traffic forwarding
- X-Ring Pro: recovery time within 20ms for 250 node connections
- IEEE 802.3at PoE+ to supply 30W power
- IEEE 802.3af PoE to supply 15.4 power
- IEEE 802.3af/802.3at per port with system PoE power management
- Dual power input, dual image for system reliability
- Operating temperature: -40 ~ 75°C

Introduction

The EKI-9312P Gigabit managed PoE+ Ethernet switches come standard with 8 10/100/1000BaseT(X), 802.3af (PoE), and 802.3at (PoE+) compliant Ethernet ports, and 4 fiber optic Gigabit Ethernet ports. The EKI-9312P PoE Ethernet switches provide up to 30 watts of power per PoE+ port for heavy-duty, industrial PoE devices, such as weather-proof IP surveillance cameras, high performance wireless access points, and rugged IP phones.

The EKI-9312P are equipped with 8 Gigabit Ethernet ports and up to 4 fiber optic ports, making them ideal for upgrading an existing network to Gigabit speed or building a new, full Gigabit network. The X-Ring Pro with RSTP, STP and MSTP support, increases system reliability and the availability of your network. The EKI-9312P are designed especially for bandwidth demanding applications, such as video and process monitoring, intelligent transportation systems, all of which benefit from a scalable backbone construction.

Specifications

Interface

- **I/O Port** 8 x 10/100/1000Base-T/TX RJ-45 4 x 1000BASE-X SFP
- **Console port** RJ-45
- **F/W backup port** USB
- **Power Connector** 6-pin screw Terminal Block (including relay)

Physical

- **Enclosure** Aluminum Shell
- **Protection Class** IP 30
- **Installation** DIN Rail
- **Dimensions (W x H x D)** 86 x 165 x 125 (mm)

LED Display

- **System LED** PWR1, PWR2, SYS, CFG, Alarm and R.M.
- **Port LED** Link / Speed / Activity / PoE

Environment

- **Operating Temperature** -40 ~ 75°C
- **Storage Temperature** -40 ~ 85°C
- **Ambient Relative** 10 ~ 95% (non-condensing) Humidity
- **Humidity** 10 ~ 95% (non-condensing)

Power

- **Power Consumption** ~ 21.82 Watts (System)
  EKI-9316P: ~294.22 Watts
  EKI-9312P: ~203.42 Watts
- **Power Input** 48 (46 to 57 V) V_{DC} dual inputs
  (> 53 V_{DC} for PoE+ output recommended)

Certification

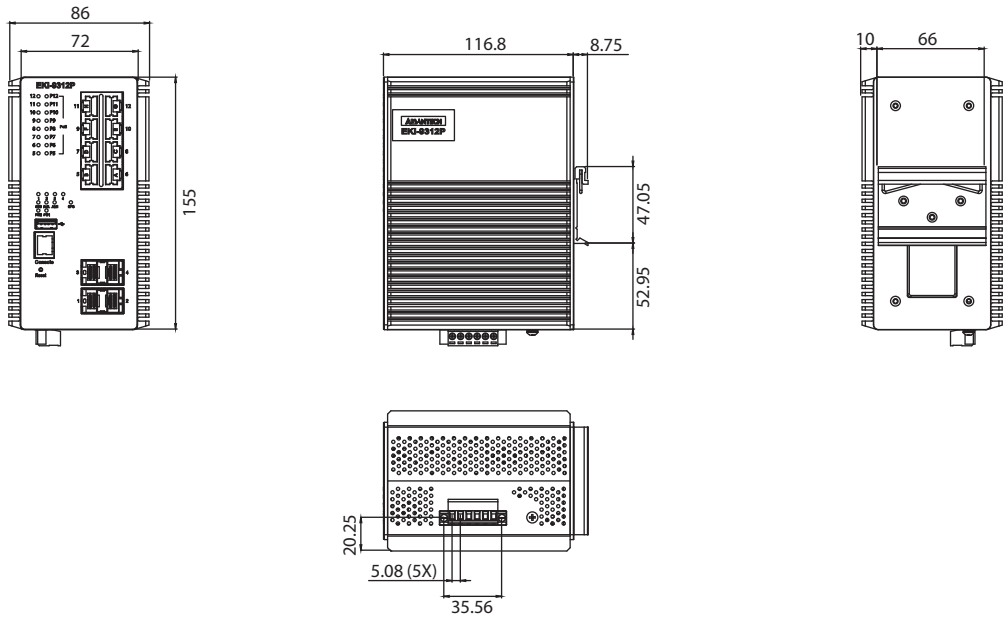
- **EMI** CE, FCC Class A
- **Safety** UL60950 C1D2
- **EMC** EN61000-6-4; EN61000-6-2; EN61000-4-2 (ESD) Level 4 EN61000-4-3 (RS) Level 3; EN61000-4-4 (EFT) Level 4; EN50121-4; EN61000-4-5 (Surge) Level 4; EN61000-4-6 (CS) Level 3 EN61000-4-8 (Magnetic Field) Level 4
- **Shock** IEC 60068-2-27
- **Freefall** IEC 60068-2-32
- **Vibration** IEC 60068-2-6
- **Patent** http://www.advantech.com/legal/patent

L2 Features

- **L2 MAC Address** 16K
- **Jumbo Frame** 12KB
- **VLAN Group** 4K (VLAN ID 1~4094)
- **VLAN Arrange** Mac based VLAN, Protocol based VLAN, IP subnet based VLAN, 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
- **Spanning Tree** IEEE 802.1D-STP, IEEE 802.1s-MSTP, IEEE 802.1w-RSTP, X-Ring Pro

Dimensions

Unit: [mm]



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- **ACL** — 1K rules
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- **NTP** — NTP client/server

Ordering Information

- **EKI-9312-P0ID42E** — Layer 2 Fastpath, 8 x GbE 100/1000Base-T with PoE+ 4 x GbE SFP w/ 48 V_{DC} Redundant Power Input

Contact our sales for more pricing & ordering information.

EKI-9316P

Industrial-Class 16 Port Managed DIN Rail Switch Full Gigabit Switch with PoE/PoE+

Features

- All Gigabit connections support dual ring protection and non-blocking traffic
- forwarding
- X-Ring Pro: recovery time within 20ms for 250 node connections
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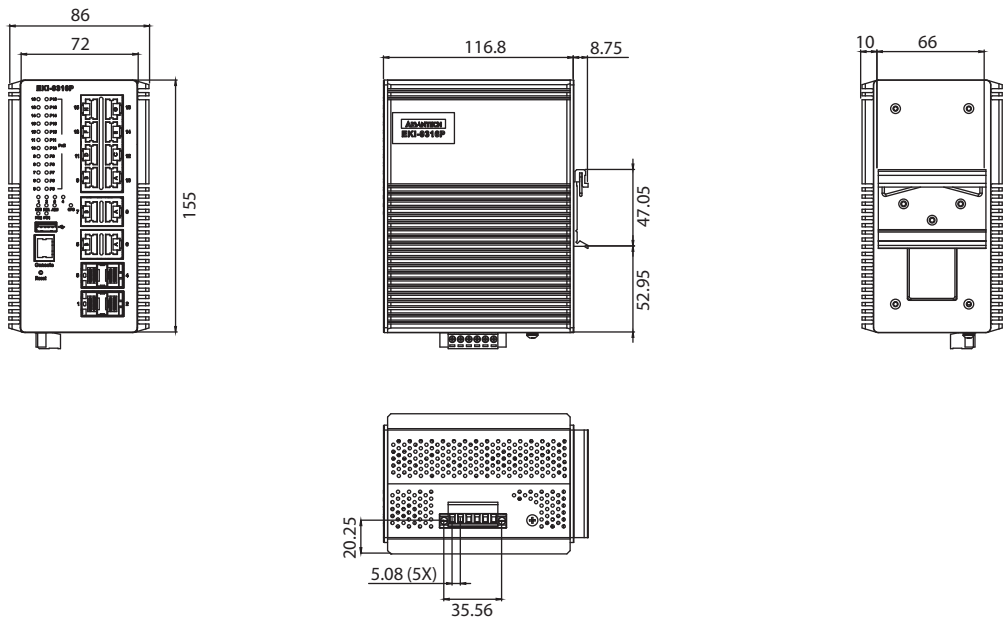
Last updated : 25-Aug-2016

Dimensions

Unit: [mm]



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