

EKI-2725/I

5-port Gigabit Unmanaged Industrial Ethernet Switch



Features

- Provides 5 Gigabit Ethernet ports with Auto MDI/MDI-X
- Supports 10/100/1000 Mbps Auto Negotiation
- Supports jumbo frame transmission up to 9kbytes
- Provides Slim size, DIN-rail with IP30 metal mechanism
- Supports Redundant 12 ~ 48 V_{DC} power input and P-Fail Relay

Introduction

The EKI-2725 supports Gigabit Ethernet. The power is a +12 ~ 48 V_{DC} redundant input design, and is secured with a double protection mechanism: Power Polarity Reverse Protect and an Overload Current Fuse. The former tolerates reverse power wiring while the later secures the system from overload currents. Each port of EKI-2725 has 2 LED's to show the link status transmission speed and collision status. It also provides a relay output for an event alarm. In the event of a power failure, the built-in LED will activate the alarm to notify administrators. Engineers can simply verify the hardware status by checking the LED, and have troubleshooting easy and quick. EKI-2725 comes with compact metal housing that rates IP30 to help against from dusty industrial environments.

Specifications

Communications

- **Standard** IEEE 802.3, 802.3u, 802.3x, 802.3ab
- **LAN** 10/100/1000Base-T(X)
- **Transmission Distance** Up to 100 m (4-wire Cat.5e, Cat.6 RJ45 cable)
- **Transmission Speed** Up to 1000 Mbps

Interface

- **Connectors** 5 x RJ45
6-pin removable screw terminal (power & relay)
- **LED Indicators** P1, P2, P-Fail
10/100/1000T (X): Link/Activity, Duplex/Collision

Power

- **Power Consumption** 2.5W
- **Power Input** 12 ~ 48 V_{DC}, redundant dual inputs
- **Fault Output** 1 Relay Output

Mechanism

- **Dimensions (W x H x D)** 30 x 140 x 95 mm (1.18" x 5.51" x 3.74")
- **Enclosure** IP30, Metal shell with solid mounting kits
- **Mounting** DIN-rail, Wall

Protection

- **Power Reverse** Present
- **Overload current** Present

Environment

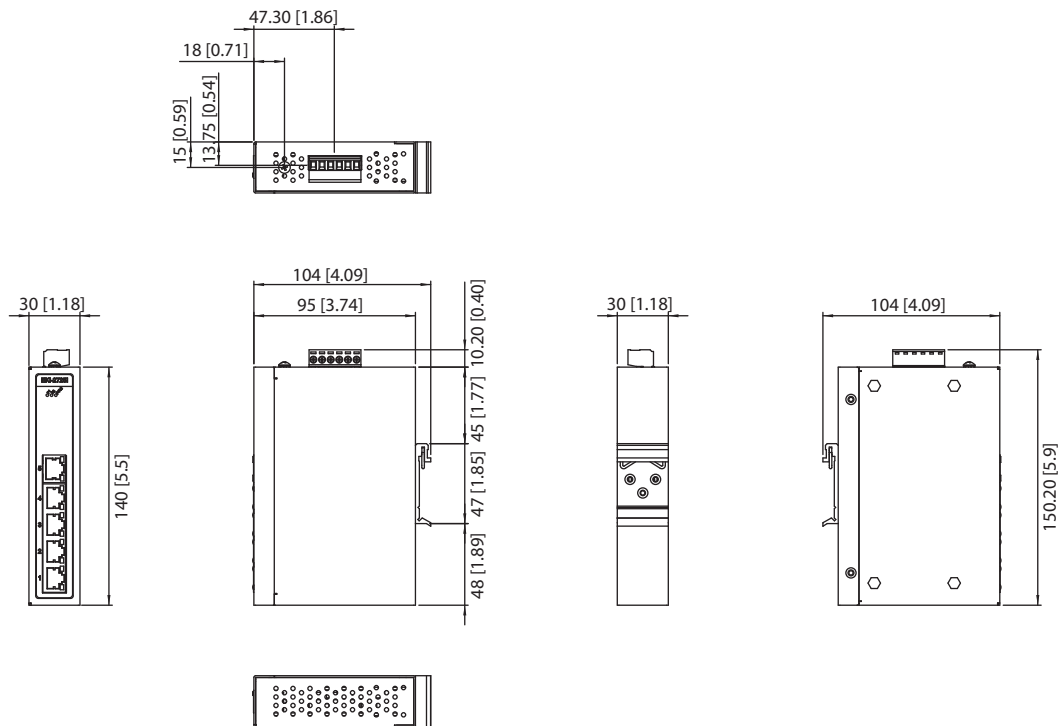
- **Operating Temperature** -10 ~ 60°C (14 ~ 140°F)
-40 ~ 75°C (-40 ~ 167°F) / (I model)
- **Storage Temperature** -40 ~ 85°C (-40 ~ 185°F)
- **Operating Humidity** 10 ~ 95% (non-condensing)
- **Storage Humidity** 10 ~ 95% (non-condensing)
- **MTBF** 2,296,909 hours

Certifications

- **Safety** UL 62368
- **EMI** CE, FCC 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

Dimensions

Unit: [mm]



Ordering Information

- EKI-2725-CE 5-port Gigabit Unmanaged Switch
- EKI-2725I-CE 5-port Gigabit Unmanaged Switch w/wide temp

EKI-2728 / I

8-port Gigabit Unmanaged Industrial Ethernet Switch



Features

- Provides 8 Gigabit Ethernet ports with Auto MDI/MDI-X
- Supports 10/100/1000 Mbps Auto Negotiation
- Supports jumbo frame transmission up to 9kbytes
- Provides Slim size, DIN-rail with IP30 metal mechanism
- Supports Redundant 12 ~ 48 V_{DC} power input and ALM Relay

Introduction

The EKI-2728 supports Gigabit Ethernet. The power is a +12 ~ 48 V_{DC} redundant input design, and is secured with a double protection mechanism: Power Polarity Reverse Protect and an Overload Current Fuse. The former tolerates reverse power wiring while the later secures the system from overload currents. Each port of EKI-2728 has 2 LED's to show the link status transmission speed and collision status. It also provides a relay output for an event alarm. In the event of a power failure, the built-in LED will activate the alarm to notify administrators. Engineers can simply verify the hardware status by checking the LED, and have troubleshooting easily and quickly. EKI-2728 comes with compact metal housing that rates IP30 to help against from dusty industrial environments.

Specifications

Communications

- **Standard** IEEE 802.3, 802.3u, 802.3x, 802.3ab
- **LAN** 10/100/1000Base-T(X)
- **Transmission Distance** Up to 100 m (4-wire Cat.5e, Cat.6 RJ45 cable)
- **Transmission Speed** Up to 1000 Mbps

Interface

- **Connectors** 8 x RJ45
6-pin removable screw terminal (power & relay)
- **LED Indicators** P1, P2, ALM
10/100/1000T (X): Link/Activity, Duplex/Collision

Power

- **Power Consumption** Max. 3.9W
- **Power Input** 12 ~ 48 V_{DC}, redundant dual inputs
- **Fault Output** 1 Relay Output

Mechanism

- **Dimensions (W x H x D)** 30 x 140 x 95 mm (1.18" x 5.51" x 3.74")
- **Enclosure** IP30, Metal shell with solid mounting kits
- **Mounting** DIN-rail, Wall

Protection

- **Power Reverse** Present
- **Overload current** Present

Environment

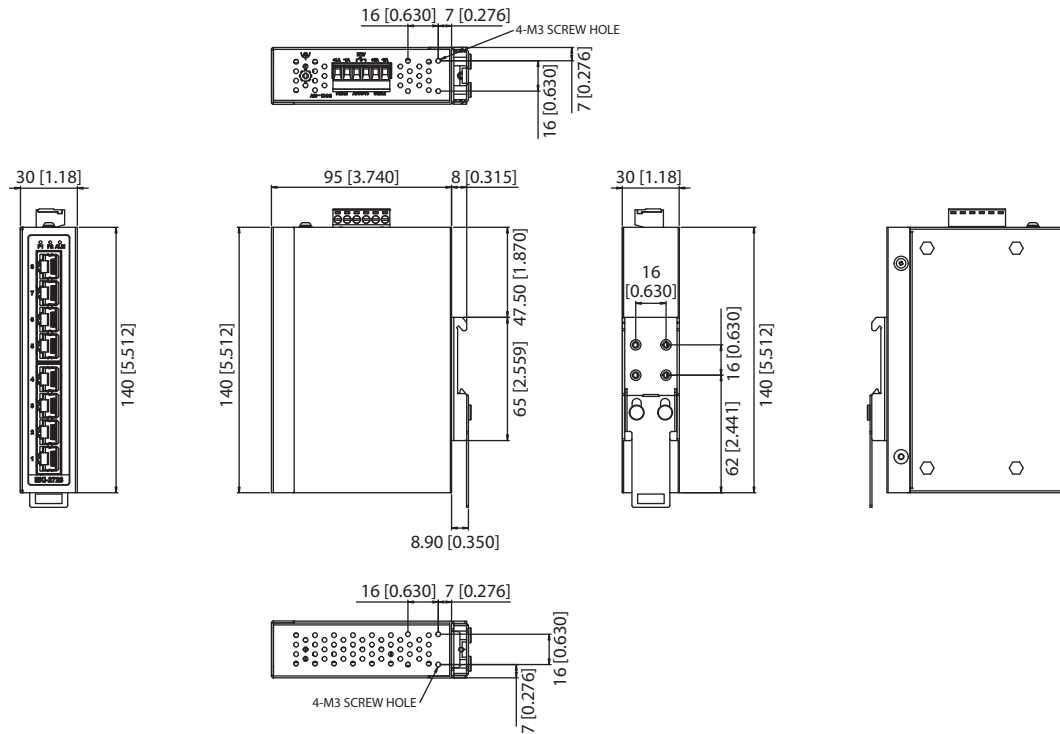
- **Operating Temperature** -10 ~ 60°C (14 ~ 140°F)
-40 ~ 75°C (-40 ~ 167°F) / (I model)
- **Storage Temperature** -40 ~ 85°C (-40 ~ 185°F)
- **Operating Humidity** 10 ~ 95% (non-condensing)
- **Storage Humidity** 10 ~ 95% (non-condensing)
- **MTBF** 4,764,152 hours

Certifications

- **Safety** UL 62368
- **EMI** CE, FCC 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

Dimensions

Unit: mm [inch]



Outline Dimensions: EKI-2728-D: 30 x 140 x 95 mm (1.181 x 5.512 x 3.740 in)

Ordering Information

- EKI-2728-D 8-port Gigabit Unmanaged Switch
- EKI-2728I-D 8-port Gigabit Unmanaged Switch w/wide temp

EKI-2728M/MI

EKI-2728S/SI

6G+2G Multi-Mode SC Fiber Port Unmanaged Ethernet Switch

6G+2G Single-Mode SC Fiber Port Unmanaged Ethernet Switch



Features

- Provides 6 x 10/100/1000 Mbps Ethernet port with RJ45 connector
- Provides 2 x 1000 Mbps fiber port with SC type connector for 1000Base-SX/LX device
- Supports MDI/MDI-X auto crossover
- Supports Auto-Negotiation
- Supports redundant 12 ~ 48 V_{DC} and 24V_{AC} power input
- Provides flexible mounting: DIN-rail and Wall mount
- Provides Link Fault Pass-through (LFP)
- Jumbo Frame: 9216 bytes

Introduction

EKI-2728M/2728S are cost effective unmanaged industrial Ethernet switch which supports Giga Ethernet. It supports Green Power requirement, furthermore, EKI-2728M/2728S also supports advanced network standards to optimize network performance, reduce maintenance cost, and secure network safety.

Specifications

Communications

- **Standard** IEEE 802.3, 802.3u, 802.3ab, 802.3x, IEEE 802.3z
- **LAN** 10/100/1000Base-T (X), 1000Base-SX or 1000Base-LX
- **Transmission Distance** Ethernet: Up to 100 m
Fiber:
Multi-mode: Up to 550 m (EKI-2728M/MI)
Single-mode: Up to 10 km (EKI-2728S/SI)
Up to 1000 Mbps
- **Transmission Speed**
- **Optical Fiber**
Multi-mode
(EKI-2728M/MI)
Wavelength: 850 nm
Tx Power: -4/-9.5 dBm
Rx Sensitivity: -18 dBm
Parameters: 50/125 um, 62.5/125 um
Single-mode
(EKI-2728S/SI)
Wavelength: 1310 nm
Tx Power: -3/-9.5 dBm
Rx Sensitivity: -20 dBm
Parameters: 9/125 um

Interface

- **Connectors** 6 x RJ45
2 x SC type fiber connector
6-pin removable screw terminal (power & relay)
- **LED Indicators** P1, P2, P-Fail
Fiber: LNK/ACT
Ethernet: 1000M, LNK/ACT

Power

- **Power Consumption** 7W
- **Power Input** 12 ~ 48 V_{DC}, 24 V_{AC} (18 ~ 30 V_{AC}), redundant dual inputs

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

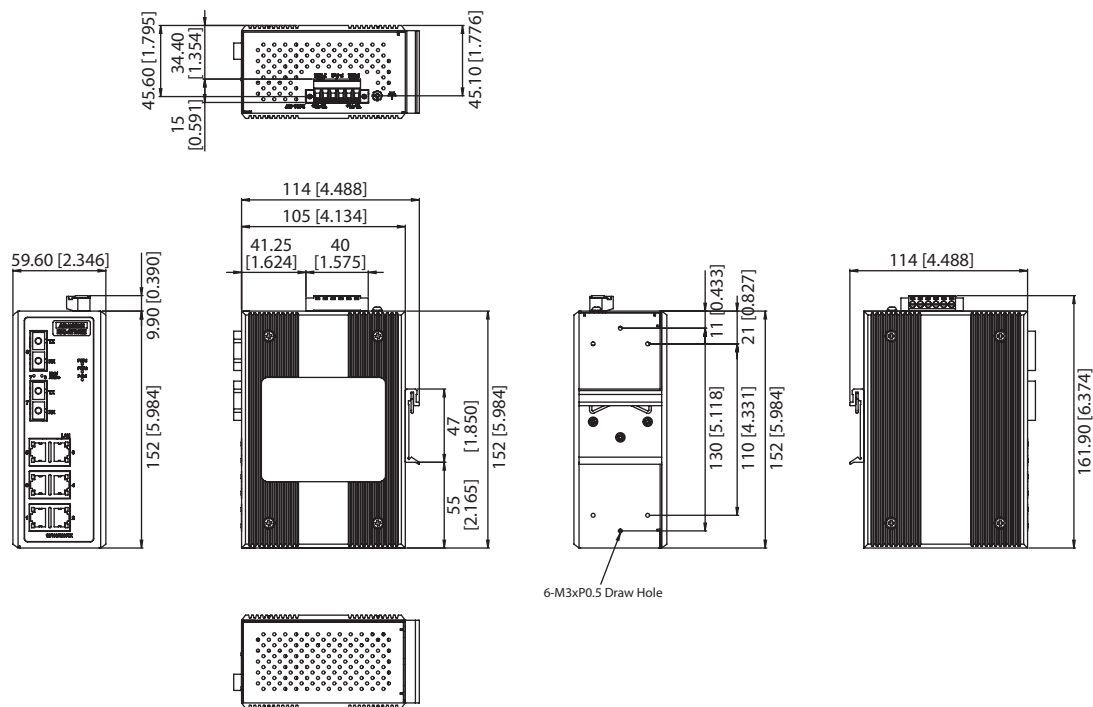
- **Operating Temperature** -10 ~ 60°C (14 ~ 140°F)
Wide Temp Model
-40 ~ 75°C (-40 ~ 167°F) / (I model)
- **Storage Temperature** -40 ~ 85°C (-40 ~ 185°F)
- **Operating Humidity** 10 ~ 95% (non-condensing)
- **Storage Humidity** 10 ~ 95% (non-condensing)
- **MTBF** TBD

Certification

- **EMI** CE, FCC 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

Dimensions

Unit: mm [inch]



Panel Cut-out Dimensions: 59.6 x 152 x 105 mm (2.35" x 5.98" x 4.13")

Ordering Information

- **EKI-2728M-BE** 6G+2G Multi-mode SC Fiber Unmanaged Ethernet Switch
- **EKI-2728MI-BE** 6G+2G Multi-mode SC Fiber Unmanaged Ethernet Switch w/ Wide Temp
- **EKI-2728S-AE** 6G+2G Single-mode SC Fiber Unmanaged Ethernet Switch
- **EKI-2728SI-AE** 6G+2G Single-mode SC Fiber Unmanaged Ethernet Switch w/ Wide Temp