

# 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
- Wide operating temperature range of -40 ~ 75°C
- EMS Level 3 protection for extreme outdoor environments
- IEEE 802.3az Energy-Efficient Ethernet
- Jumbo frame support (up to 9,216 Bytes)
- Supports redundant 12 ~ 24 V (9 ~ 36 V) power input and P-Fail relay
- Loop detection

### Introduction

The EKI-5729PI switches support PoE on Ports 1 ~ 8. These switches are classified as power source equipment and are the world's first convergence switches for process control and IT networking management. The series use Modbus/TCP to communicate with SCADA software and SNMP to communicate with NMS simultaneously, thereby allowing full read control over devices for control engineers or IT personnel. The devices come with port-based QoS for deterministic data transmission, allowing specific ports to prioritize traffic and delay less important data over the remaining ports. The switches use the highest quality components, can operate in temperatures of -40 ~ 75°C, and provide EMS Level 3 protection against electromagnetic interference. The switches comply with E-mark for in-vehicle applications and surveillance systems.

### Specifications

#### Communications

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

#### Interface

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

#### LED Indicators

- **System LED** P1, P2, P-Fail, Loop, PoE
- **Port LED status** 10/100/1000BASE-TX: 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** -40 to 75° C (-40 to 167°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

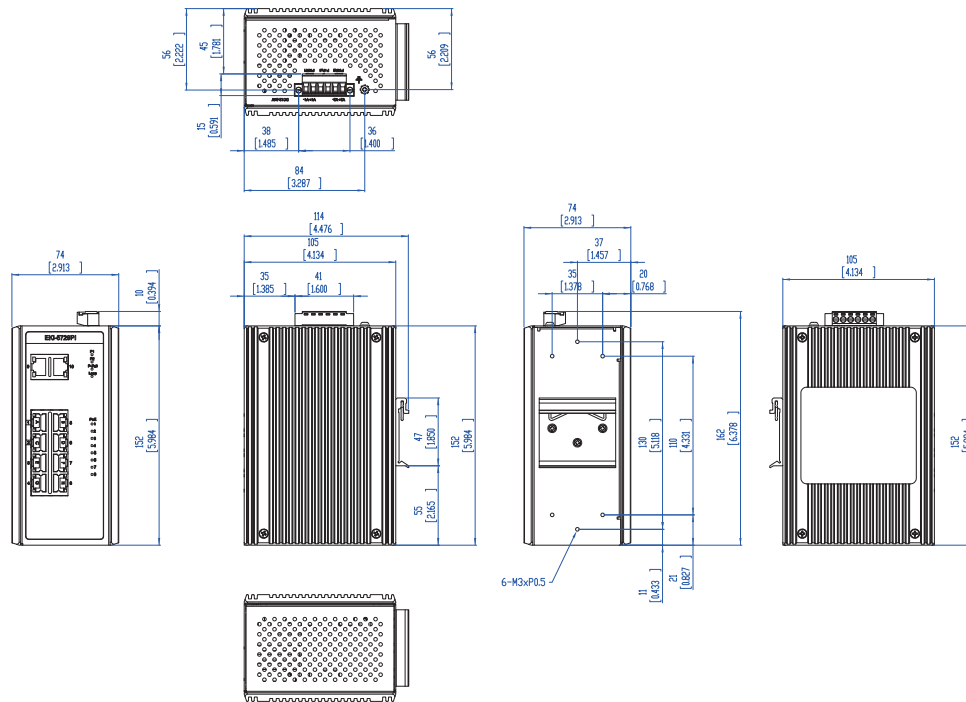
- **Power Consumption** 6w (System)
- **Power Input** 12-24 Vdc, (7A-3A)
- **Power Budget** 60w @ 24v  
50w @ 12v

#### Certification

- **Safety** UL 61010, e-Mark
- **EMI** CE, FCC Class A
- **EMS** 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>

## Dimensions

Unit: mm [inch]



## Ordering Information

- EKI-5729PI-AE 8 x 10/100/1000BASE-TX with PoE + 2GE, Wide Temp.



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