# 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
- Wide operating temperature range of -40 ~ 75°C (EKI-5729PI)
- 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-5729P and 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 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

SafetyEMIUL 61010, e-MarkCE, FCC Class A

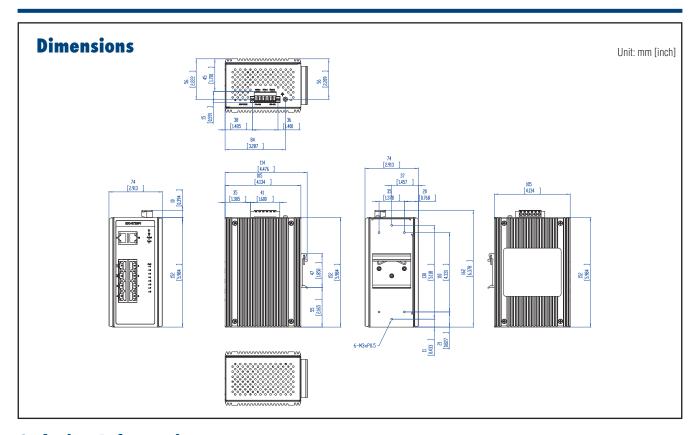
■ **EMS** EN 61000-4-2 (ESD) Level 3

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



## **Ordering Information**

**EKI-5729P-AE** 8 x 10/100/1000BASE-TX with PoE + 2GE

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