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 75°C operating temperature range (EKI-5729PI)
- 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

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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 entriesPacket Buffer 4.1 Mbit

Switching Capacity 20 Gbps

Power

Power Consumption 6w (System)

Power Input
Power Budget
12-24 Vdc, (7A-3A)
60w @ 24v

50w @ 12v

Certification

SafetyEMIUL 61010, e-MarkCE, FCC Class A

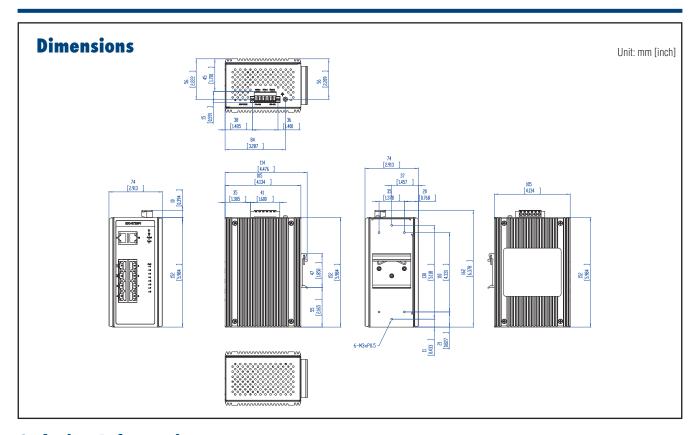
■ EMS EN 61000-4-2 (ESD) Level 3

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 10/100/1000BaseT(X) with PoE + 2GE

• **EKI-5729PI-AE** 8 x 10/100/1000BaseT(X) with PoE + 2GE, Wide Temp.