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 to 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
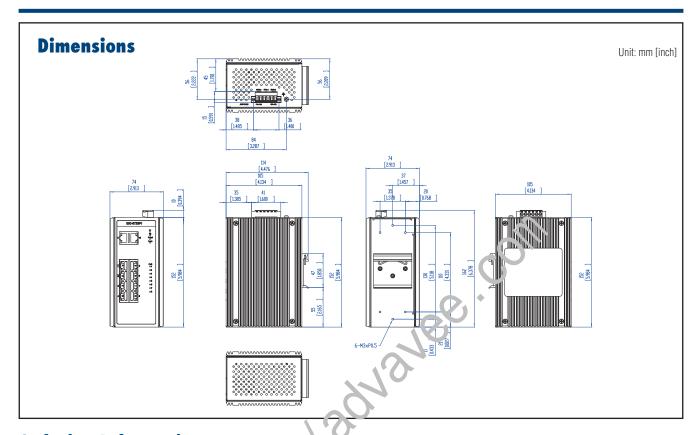- **EMI**   CE, FCC Class A
- **EMS**   EN 61000-4-2 (ESD) Level 3
  EN 61000-4-3 (RS) Level 3;
  EN 61000-4-4 (EFT) Level 3
  EN 61000-4-5 (Surge) Level 3;
  EN 61000-4-6 (CS) Level 3
  EN 61000-4-8 (Magnetic Field) Level 3
- **Shock**   IEC 60068-2-27
- **Freefall**   IEC 60068-2-32
- **Vibration**   IEC 60068-2-6
- **Patent**   http://www.advantech.com/legal/patent

Dimensions

Unit: mm [inch]

Ordering Information

- **EKI-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.