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)
- Provides 5/6 Fast Ethernet ports with 8 PoE ports
- Jumbo Frame Support (Up to 9,216 Bytes)
- Supports redundant 12V~24V (9V ~ 36V) power input and P-Fail relay
- Loop detection

(E13) CE FCC

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 entries
- **Packet Buffer** 4.1 Mbit
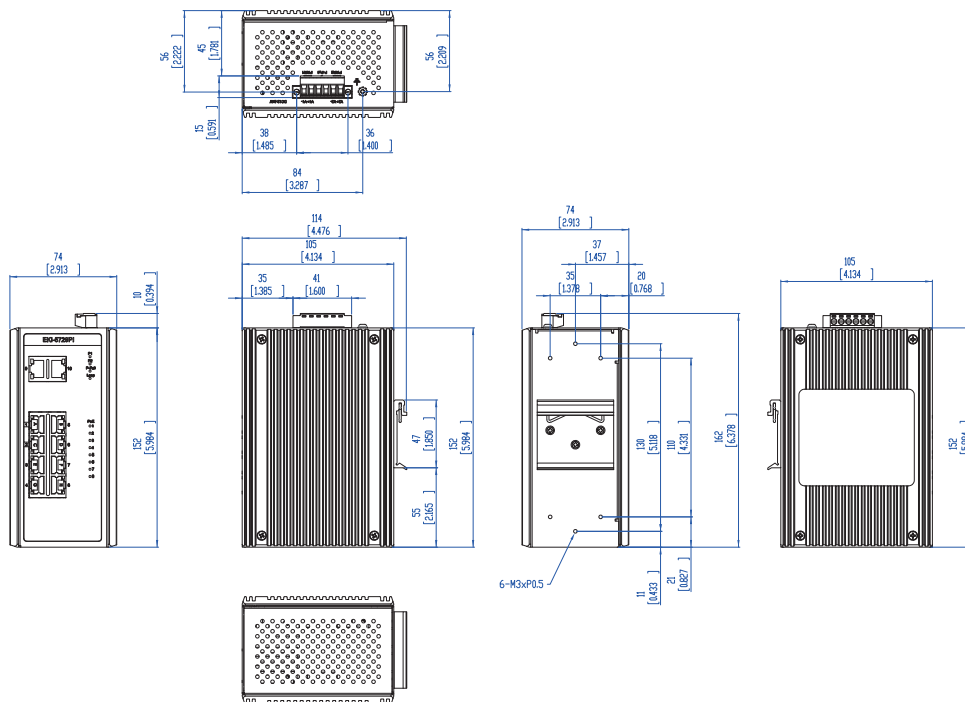- **Switching Capacity** 20 Gbps

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