EKI-5525/I
EKI-5528/I

5-port Fast Ethernet ProView Switch

8-port Fast Ethernet ProView Switch

Features

- Communicates with SCADA software via Modbus/TCP
- Communicates with NMS (Networking management system) via SNMP
- Port-based QoS for deterministic data transmission
- -40 ~ 75°C operating temperature range (EKI-5525I and EKI-5528I only)
- 12 ~ 48 V_{DC} (8.4 ~ 52.8 V_{DC}) wide-range power inputEMS level 3 protection for extreme outdoor environments
- IEEE 802.3az Energy Efficient Ethernet (EEE)
- Jumbo Frame Support
- Supports redundant 12 ~ 48 V_{DC} power input and P-Fail relay
- Loop detection

Introduction

The EKI-5525/I and EKI-5528/I are 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. EKI-5525/I and EKI-5528/I 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.

Specifications

Communications

- **Standard** IEEE 802.3, 802.3u, 802.3x, 802.1p, 802.3az
- **LAN** 10/100Base-T(X)
- **Transmission Distance** Up to 100 m
- **Transmission Speed** Up to 100 Mbps

Interface

- **Connectors** EKI-5525/I: 5 x RJ45
  EKI-5528/I: 8 x RJ45
  6-pin removable screw terminal (power & relay)
- **LED Indicators** P1, P2, P-Fail, Loop detection
  10/100T (X): Link/Activity, Speed

Switch Properties

- **MAC Table Size** EKI-5525/I: 2K
  EKI-5528/I: 8K
- **Packet Buffer Size** EKI-5525/I: 1M bit
  EKI-5528/I: 128K bit
- **Switching Capacity** EKI-5525/I: 1Gbps
  EKI-5528/I: 1.6 Gbps
- **Jumbo Frame** EKI-5525/I: 9216 bytes
  EKI-5528/I: 2048 bytes

Power

- **Power Consumption** EKI-5525/I: Max. 2 W
  EKI-5528/I: Max.3.6 W
- **Power Input** 12~48 V_{DC} (8.4~52.8 V_{DC}), redundant dual inputs
- **Fault Output** 1 Relay Output

Mechanism

- **Dimensions (W x H x D)** EKI-5525/I: 27 x 120 x 84 mm
  EKI-5528/I: 43 x 120 x 84 mm
- **Enclosure** IP30, metal shell with solid mounting kits
- **Mounting** DIN-Rail, Wall

Protection

- **Reverse Polarity** Present
- **Overload Current** Present

Environment

- **Operating Temperature** EKI-5525 & EKI-5528: -10~60°C (14~140°F)
  EKI-5525I & EKI-5528I: -40~75°C (-40~167°F)
- **Storage Temperature** -40 ~ 85°C (-40 ~ 185°F)
- **Operating Humidity** 10 ~ 95% (non-condensing)
- **Storage Humidity** 10 ~ 95% (non-condensing)
- **MTBF** EKI-5525/I: 5,168,110 hours
  EKI-5528/I: 5,235,270 hours

Certification

- **Safety** IIEC/EN60950, UL60950, UL508, Class 1 Division 2, ATEX
- **EMI** FCC Part 15 Subpart B Class A, EN 55011/55022 Class A
- **EMS** EN 61000-4-2 (Level 3)
  EN 61000-4-3 (Level 3)
  EN 61000-4-4 (Level 3)
  EN 61000-4-5 (Level 3)
  EN 61000-4-6 (Level 3)
  EN 61000-4-8 (Level 3)
- **Shock** IEC 60068-2-27
- **Freefall** IEC 60068-2-32
- **Vibration** IEC 60068-2-6

Ordering Information

- **EKI-5525** 5-port Fast Ethernet ProView Switch
- **EKI-5525I** 5-port Fast Ethernet ProView Switch with Wide Temperature
- **EKI-5528** 8-port Fast Ethernet ProView Switch
- **EKI-5528I** 8-port Fast Ethernet ProView Switch with Wide Temperature

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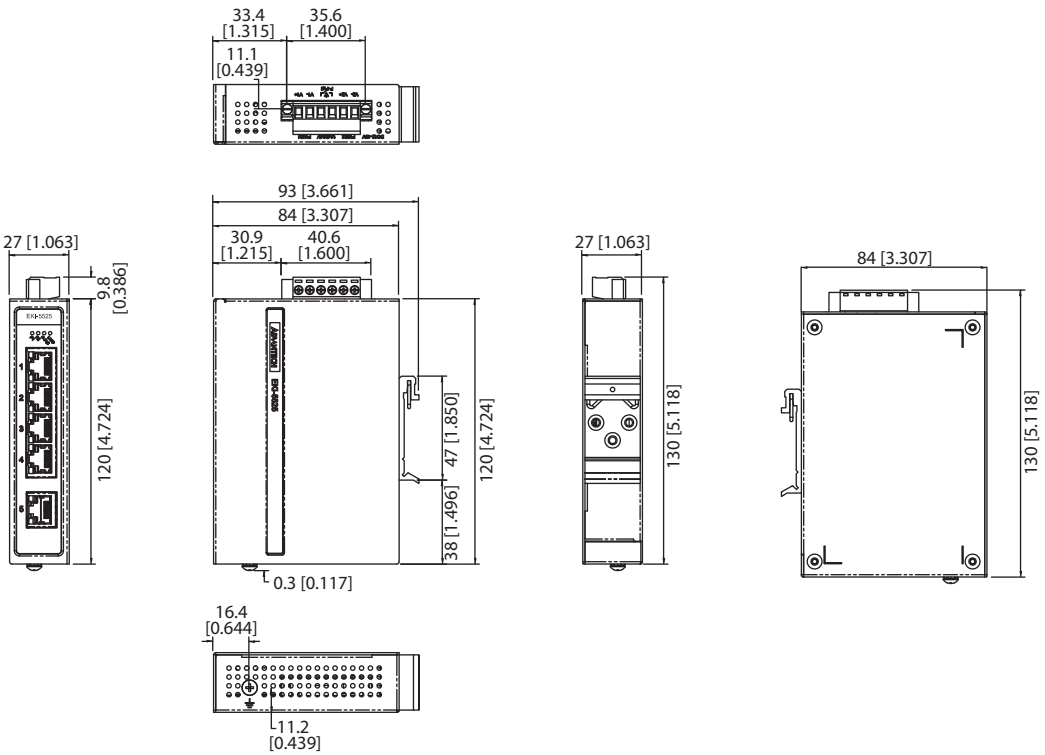
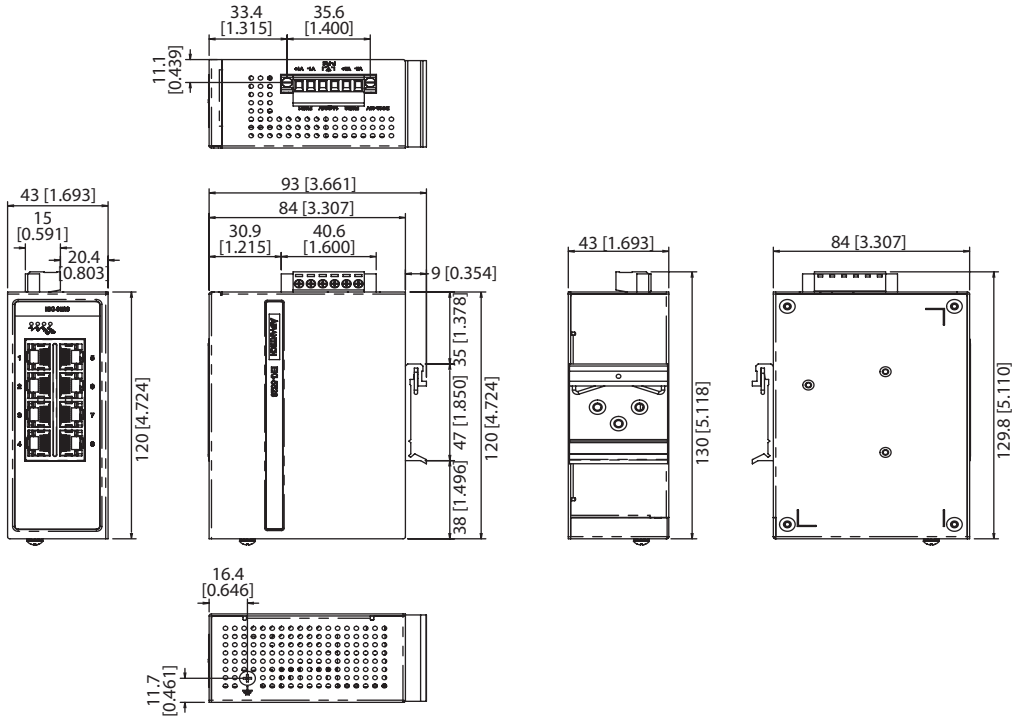
Dimensions

Unit: mm [inch]

EKI-5525



EKI-5528