# EKI-5526/I

## 16-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-5526I only)
- 12 ~48 $V_{DC}$ (8.4~52.8 $V_{DC}$) wide-range power input
- EMS level 3 protection for extreme outdoor environments
- IEEE 802.3az Energy Efficient Ethernet (EEE)
- Jumbo Frame Support (Up to 2048 Bytes)
- Supports redundant 12~48$V_{DC}$ power input and P-Fail relay
- Loop detection

## Introduction

The EKI-5526/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-5526/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** 16 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** 8K
- **Packet Buffer Size** 128K bit
- **Switching Capacity** 3.2 Gbps
- **Jumbo Frame** 2048bytes

### Power

- **Power Consumption** Max. 3.84 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)** 74 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-5526: -10~60°C (14~140°F)
  EKI-5526I: -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** 4,653,552 hours

### Certification

- **Safety** IEC/EN 60950-1, UL508, Class 1 Division 2, IECEx, ATEX
- **EMC** CE, FCC
- **EMI** EN 55011/55022 Class A, EN 61000-6-4, FCC Part 15 Subpart B 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

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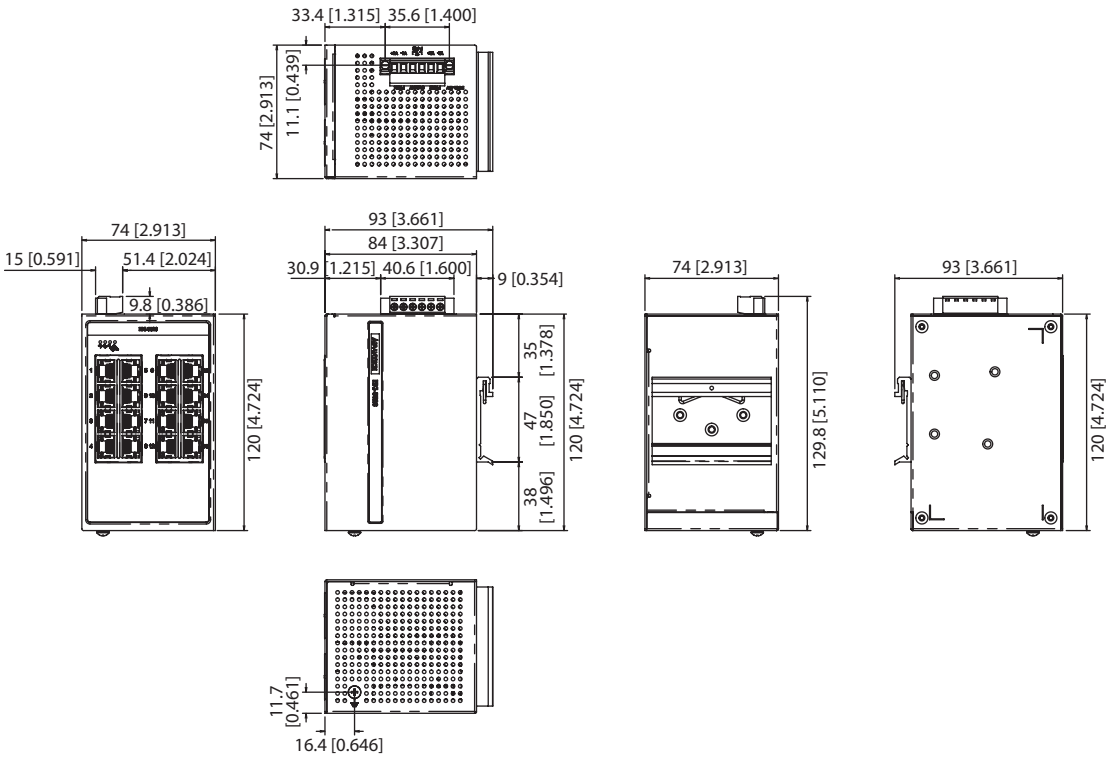
## Mounting Dimensions

Unit: mm [inch]




## Ordering Information

- **EKI-5526** 16-port Fast Ethernet ProView Switch
- **EKI-5526I** 16-port Fast Ethernet ProView Switch with Wide Temperature