EKI-5726NI

16-port Gigabit Ethernet Switch

Features

- Provides 16 Gigabit Ethernet ports with Auto MDI/MDI-X
- Supports 10/100/1000 Mbps Auto Negotiation
- 12 ~ 48 V_{DC} (8.4 ~ 52.8 V_{DC}) wide-range power input and P-Fail relay
- EMS level 3 protection for extreme outdoor environments
- Jumbo Frame Support (Up to 9,216 Bytes)
- Enhanced traffic prioritization for automation protocols
- Supports PROFINET Conformance-Class A

Introduction

The EKI-5726 NI switch uses 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. To enhance traffic prioritization for automation protocol with PROFINET PTCP filter that ensure a reliable communication on PROFINET networks.

Specifications

Communications

- **Standard** IEEE 802.3, 802.3u, 802.3x, 802.1p, 802.3az, 802.3ab
- **LAN** 10/100/1000Base-T(X)
- **Transmission Distance** Up to 100 m
- **Transmission Speed** Up to 1000 Mbps

Interface

- **Connectors** 16 x RJ45
  6-pin removable screw terminal (power & relay)
- **LED Indicators** P1, P2, P-Fail, Loop detection
  10/100/1000T(X): Link/Activity, Speed

Switch Properties

- **MAC Table Size** 8K
- **Packet Buffer Size** 4.1M bit
- **Switching Capacity** 32 Gbps
- **Jumbo Frame** 9216 bytes

Power

- **Power Consumption** Max. 8 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

Protection

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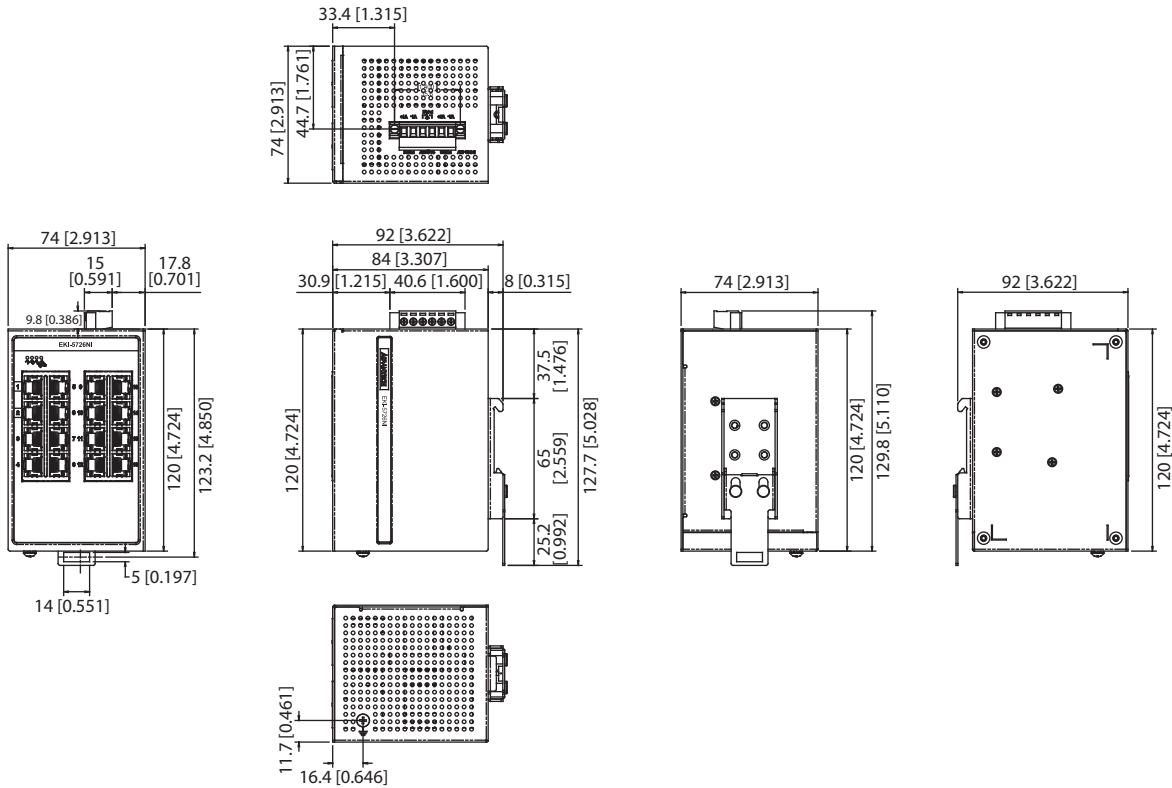- **Overload Current** Present

Environment

- **Operating Temperature** -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** 2,788,343 hours

Certification

- **Safety** LVD 62368
- **EMI** CE, FCC Class A
- **EMS** EN 61000-4-2 (Level 3)
  EN 61000-4-3
  EN 61000-4-4 (Level 3)
  EN 61000-4-5 (Level 3)
  EN 61000-4-6
  EN 61000-4-8
- **Shock** IEC 60068-2-27
- **Freefall** IEC 60068-2-32
- **Vibration** IEC 60068-2-6

ADVANTECH **Industrial Wireless and Protocol Gateway Solutions**

All product specifications are subject to change without notice. Last updated: 17-Apr-2024

Dimensions

Unit: mm [inch]

33.4 [1.315]
74 [2.913]
44.7 [1.761]

74 [2.913]
15 [0.591]
17.8 [0.701]
9.8 [0.386]
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120 [4.724]
123.2 [4.850]
5 [0.197]
14 [0.551]

92 [3.622]
84 [3.307]
30.9 [1.215]
40.6 [1.600]
8 [0.315]
120 [4.724]
37.5 [1.476]
65 [2.559]
127.7 [5.028]
25.2 [0.992]

74 [2.913]
120 [4.724]
129.8 [5.110]

92 [3.622]
120 [4.724]

11.7 [0.461]
16.4 [0.646]

Ordering Information

- **EKI-5726NI-A**   16-port Gigabit Ethernet Switch with Wide Temperature