EKI-5726F/FI

16-port+2 SFP Gigabit 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-5726FI 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 9,216 Bytes)
- Supports redundant 12~48V_{DC} power input and P-Fail relay
- Loop detection





Introduction

The EKI-5726F/FI 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-5726F/FI 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, 802.3ab LAN 10/100/1000Base-T(X), Optional 100Base-FX,

1000Base-SX/LX/LHX/XD/ZX/EZX

 Transmission Distance Ethernet: UP to 100 m (4-wire Cat.5e, Cat.6 RJ-45

cable suggested for Gigabit port) SFP: UP to 110 km (depends on SFP)

 Transmission Speed Ethernet: 10/100/1000 Mbps Auto-Negotiation Gigabit Copper: 10/100/1000 Mbps, Auto-Negotiation

Gigabit Fiber: UP to 1000 Mbps

Interface

Connectors 16 x RJ45

2 x SFP ports

6-pin removable screw terminal (power & relay)

 LED Indicators P1, P2, P-Fail, Loop detection

10/100/1000T(X): Link/Activity, Speed

SFP: Link/Activity

Switch Properties

 MAC Table Size Packet Buffer Size 4.1M bit Switching Capacity 36 Gbps Jumbo Frame 9216 bytes

Power

Power Consumption Max 9 6W

12~48 V_{DC} (8.4~52.8 V_{DC}), redundant dual inputs Power Input

 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-5726F: -10~60°C (14~140°F)

EKI-5726FI: -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 1.962.789 hours

Certification

EMC

EMS

Safety IEC/EN 60950-1, UL508, Class 1 Division 2, ATEX,

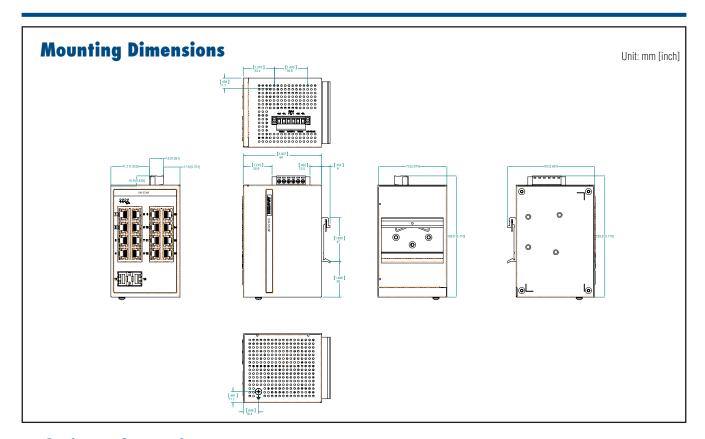
IECEx CE, FCC

EMI EN 55011/55022 Class A, EN 61000-6-4, FCC Part 15

> Subpart B Class A 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)

IEC 60068-2-27 Shock Freefall IEC 60068-2-32 Vibration IEC 60068-2-6



Ordering Information

■ EKI-5726F 16-port+2 SFP Gigabit Ethernet ProView Switch

■ EKI-5726FI 16-port+2 SFP Gigabit Ethernet ProView Switch with Wide Operating Temperature Range