EKI-5729FI

8-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
- 12 ~ 48 V_{DC} (8.4 to 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 ~ 48 V_{DC} power input and P-Fail relay
- Loop detection



Introduction

The EKI-5729FI 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-5729FI 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 8 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
Switching Capacity
Jumbo Frame
9216 bytes

Power

■ Power Consumption Max. 6.8 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) 43 x 120 x 84 mm

• **Enclosure** IP30, metal shell with solid mounting kits

Mounting DIN-Rail, Wall

Protection

Reverse Polarity PresentOverload Current Present

Environment

Operating Temperature
 Storage Temperature
 Operating Humidity
 Storage Humidity
 Storage Humidity
 EKI-5729FI: -40~75°C (-40~167°F)
 -40 ~ 85°C (-40 ~ 185°F)
 10 ~ 95% (non-condensing)
 30 ~ 95% (non-condensing)

• MTBF 3,858,286 hours

Certification

Safety IEC/EN60950, UL60950, UL508, Class 1 Division 2,

ATEX

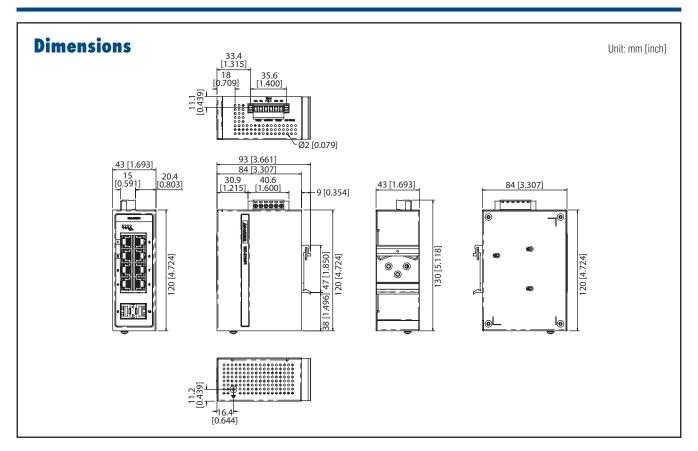
EMI FCC Part 15 Subpart B Class A, EN 55011/55022

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-5729FI

8-port+2 SFP Gigabit Ethernet ProView Switch with Wide Operating Temperature Range



Jesenského 16, 01001 Žilina Tel: +421 41 270 38 13 info@mii.sk