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 \sim 48 V_{DC} (8.4 \sim 52.8 $V_{\text{DC}})$ 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
 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 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
 Operating Humidity
 Storage Humidity
 MTBF
 40 ~ 85°C (-40 ~ 185°F)
 10 ~ 95% (non-condensing)
 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

All product specifications are subject to change without notice

