EKI-5525S/M Series

4-port +1x100FX port (Single/Multi-mode, SC/ST type). 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-5525SI/SI-ST,EKI-5525MI/MI-ST only)
- 12 ~48 V_{DC} (8.4 ~52.8 VDC)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-5525S/SI/S-ST/SI-ST and EKI-5525M/MI/M-ST/MI-ST 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 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-5525S/SI/S-ST/SI-ST and EKI-5525M/MI/M-ST/MI-ST 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

10/100Base-T(X), 100Base-FX **Transmission Distance**

Ethernet: Up to 100 m Multi-mode Fiber: Up to 2 km (EKI-5525M Series)

Single-mode Fiber: Up to 30 km (EKI-5525S Series)

Optical Fiber

Multi-Mode (EKI-5525M/MI/M-ST/MI-ST)

Wavelength:1310nm Tx Power: -14/-20 dBm

Rx Sensitivity: -32 dBm Rx Sensitivity: -32 dBm Parameters: 50/125 um, 62.5/125 um Single-Mode (EKI-5525S/SI/S-ST/SI-ST) Wavelength: 1310 nm

Tx Power: -8/-15 dBm Rx Sensitivity: -34 dBm Parameters: 9/125 um Up to 100 Mbps

Transmission Speed

Interface

Connectors

1 x SC/ST type fiber optic connectors 6-pin screw Terminal Block (including relay)

LED Indicators P1,P2, P-Fail, Loop detection 10/100T(X): Link/Activity, Speed

Switch Properties

MAC Table Size 2K Packet Buffer Size 1M bit **Switching Capacity** 1 Gbps Jumbo Frame 9216 bytes

Power

Power Consumption

Power Input 12~48 VDC (8.4~52.8 VDC), redundant dual inputs

Fault Output 1 Relay Output

Mechanism

Dimensions (W x H x D) 27 x 120 x 84 mm

IP30, metal shell with solid mounting kits Enclosure

Mounting

Protection

Reverse Polarity Present Overload Current

Environment

Operating Temperature

Storage Temperature

Operating Humidity Storage Humidity

EKI-5525S/S-ST/M/M-ST: -10~60°C (14~140°F) EKI-5525SI/SI-ST/MI/MI-ST: -40~75°C (-40~167°F)

-40 ~ 75°C (-40 ~ 167°F) 10 ~ 95% (non-condensing) 10 ~ 95% (non-condensing)

282,703 hours

Certification

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

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

EMS

B Class A EN61000-4-2 (ESD) Level 3 EN61000-4-3 (RS) Level 3 EN61000-4-4 (EFT) Level 3 EN61000-4-5 (Surge) Level 3 EN61000-4-6 (CS) Level 3 EN61000-4-8 (Magnetic Field) Level 3

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

Orderina Information

4-port +1 x100FX port (Single -mode, SC type), EKI-5525S

Fast Ethernet ProView Switch 4-port + 1 x100FX port (Single-mode, SC type), Fast Ethernet ProView Switch with Wide Temperature EKI-5525SI

EKI-5525M 4-port + 1 x100FX port (Multi-mode, SC type),

Fast Ethernet ProView Switch 4-port + 1 x100FX port (Multi-mode, SC type), EKI-5525MI

Fast Ethernet ProView Switch with Wide Temperature EKI-5525S-ST 4-port + 1 x100FX port (Single-mode, ST type), Fast Ethernet ProView Switch FKI-5525SI-ST

4-port + 1 x100FX port (Single-mode, ST type), Fast Ethernet ProView Switch with Wide Temperature EKI-5525M-ST 4-port + 1 x100FX port (Multi-mode, ST type), Fast Ethernet ProView Switch

 EKI-5525MI-ST 4-port + 1 x100FX port (Multi-mode, ST type), Fast Ethernet ProView Switch with Wide Temperature

