

EKI-5524SS/MM Series

4-port + 2x100FX port (Single/Multimode, 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-5524SSI/SSI-ST,EKI-5524MMI/ MMI-ST 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-5524SS/SSI/SS-ST/SSI-ST and EKI-5524MM/MMI/MM-ST/MMI-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-5524S/SSI/SS-ST/SSI-ST and EKI-5524MM/MMI/MM-ST/MMI-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, 802.3ab 10/100Base-T(X), 100Base-FX LAN

Transmission Distance

Ethernet: Up to 100 m Multi-mode Fiber: Up to 2 km (EKI-5524MM Series) Single-mode Fiber: Up to 30 km (EKI-5524SS Series)

Optical Fiber

Multi-Mode (EKI-5524MM/MMI/MM-ST/MMI-ST)

Wavelength: 1310nm
Tx Power: -14/-20 dBm
Rx Sensitivity: -32 dBm
Parameters: 50/125 um, 62.5/125 um

Single-Mode (EKI-5524Ss/SSI/SS-ST/SSI-ST)
Wavelength: 1310 pm

Wavelength: 1310 nm Tx Power: -8/-15 dBm Rx Sensitivity: -34 dBm Parameters: 9/125 um

 Transmission Speed Up to 100 Mbps

Interface

Connectors 4 x RJ45 ports

2 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 **Packet Buffer Size** 1M bit **Switching Capacity** 1.2 Gbps Jumbo Frame 9216 bytes

Power

Power Consumption Max 4 W

 $12\sim48~V_{DC}$ (8.4 $\sim52.8~V_{DC}$), redundant dual inputs Power Input

 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 Present **Overload Current** Present

Environment

Operating Temperature

EKI-5524SS/SS-ST/MM/MM-ST: -10~60°C (14~140°F) EKI-5524SSI/SSI-ST/MMI/MMI-ST: -40~75°C -40~167°F)

Storage Temperature **Operating Humidity** Storage Humidity

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

MTBF 144,890 hours

Certification

IEC/EN60950, UL60950, UL508, Class 1 Division 2, ATEX Safety IEC/ENGUSSO, ULGUSSO, CIASS I DIVISION 2, ATEX FCC Part 15 Subpart B Class A, EN 55011/55022 Class A EN61000-4-2 (ESD) Level 3 EN61000-4-3 (RS) Level 3 EN61000-4-5 (Gurge) Level 3 EN61000-4-5 (Gurge) Level 3 EN61000-4-8 (Magnetic Field) Level 3 EMI

EMS

IEC 60068-2-2 Shock

IEC 60068-2-32 Freefall IEC 60068-2-6 **Vibration**

Ordering Information

EKI-5524SS

4-port +2x100FX port (Single -mode, SC type), Fast Ethernet ProView Switch
4-port + 2x100FX port (Single-mode, SC type), Fast Ethernet ProView Switch with Wide Temperature **EKI-5524SSI**

4-port + 2 x100FX port (Multi-mode,SC type), Fast Ethernet ProView Switch EKI-5524MM EKI-5524MMI

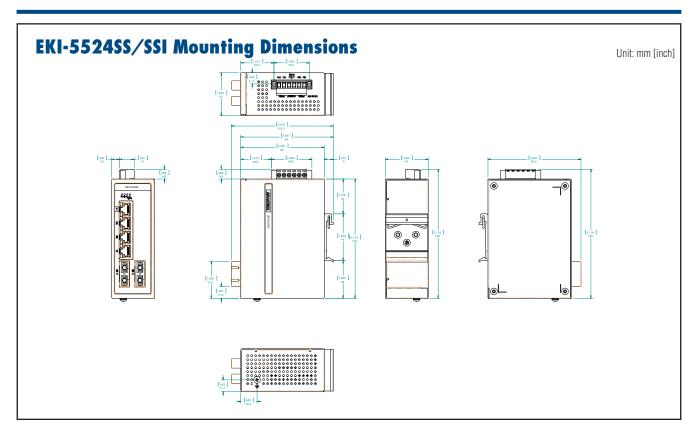
4-port + 2 x100FX port (Multi-mode,SC type), Fast Ethernet ProView Switch with Wide Temperature 4-port + 2 x100FX port (Single-mode,ST type), Fast Ethernet ProView Switch EKI-5524SS-ST

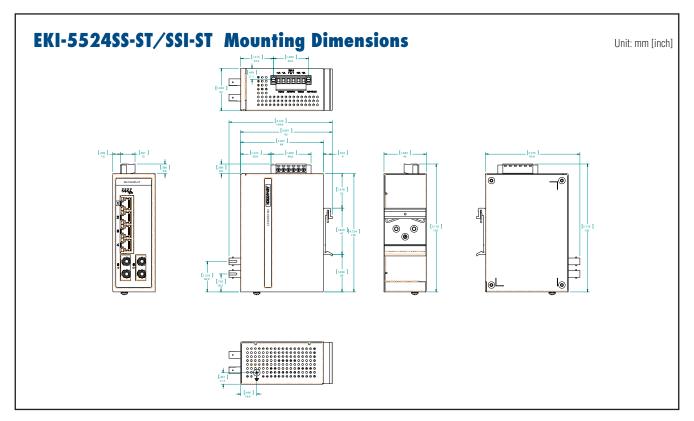
4-port + 2 x100FX port (Single-mode,ST type), Fast Ethernet ProView Switch with Wide Temperature EKI-5524SSI-ST 4-port + 2 x100FX port (Multi-mode,ST type), Fast Ethernet ProView Switch EKI-5524MM-ST

4-port + 2 x100FX port (Multi-mode,ST type), Fast EKI-5524MMI-ST Ethernet ProView Switch with Wide Temperature



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