

# **EKI-5524SS/MM Series**

## 4-port + 2x100FX port (Single/Multi-mode, SC/STtype), Fast Ethernet ProView Switch



### **Features**

- Communicates with SCADA software via Modbus/TCP
- 3 Communicates with NMS (Networking management system) via SNMP
- (3) Port-based QoS for deterministic data transmission
- (3) -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 3
- (3) EMS level 3 protection for extreme outdoor environments
- (3) IEEE 802.3az Energy Efficient Ethernet (EEE)
- 3 Jumbo Frame Support (Up to 9,216 Bytes)
- (3) Supports redundant 12~48V<sub>DC</sub> power input and P-Fail relay
- 3 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-5524SS/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

## **Specifications**

### Communications

 
 dard
 IEEE 802.3, 802.3u, 802.3x, 802.1p, 802.3az, 802.3ab

 LAN
 10/100Base-T(X), 100Base-FX

 Transmission
 Distance Ethernet: Up to 100m Multi-mode Fiber: Up to 2 km (EKI-5524MM Series)
 3 Standard 3

Single-mode Fiber: Up to 30 km (EKI-5524SS Series) 3 al Fiber Optic

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

(3) **Transmission Speed** Up to 100 Mbps

Interface

3 Connectors 4 x RJ45 ports 2 x SC/ST type fiber optic connectors 6-pinscrew Terminal Block (including relay) 3 LED Indicators P1, P2, P-Fail, Loop

detection

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

**Switch Properties** 

**MACTable Size** 3 **Packet Buffer Size** 1M bit 3 **Switching Capacity** 1.2 Gbps 3 Jumbo Frame 9216 bytes

Power

(3) **Power Consumption** Max. 4 W 12~48 V<sub>DC</sub> (8.4~52.8 V<sub>DC</sub>), 3 Power Input

redundant dual inputs

(3) 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

#### **Protection**

3	Reverse Polarity	Present
3	Overload Current	Present

#### **Environment**

Operating Temperature EKI-5524SS/SS-ST/MM/MM-ST: -10~60°C (14~140°F)

3 **Storage Temperature** -40 ~ 75°C (-40 ~

167°F)

3 Mounting DIN-Rail, Wall 3 **Operating Humidity** 10 ~ 95% (noncondensing) 3 Storage Humidity 10 ~ 95% (noncondensing) 144,890 hours 3 **MTBF** 

Certification

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

EMI FCC Part 15 Subpart B Class A, EN

3 55011/55022 Class A

3 Shock

Freefall IEC 60068-2-32 3 3 IEC 60068-2-6 Vibration

**Ordering Information** 

EKI-5524MMI

EKI-5524SS-ST

EKI-5524SSI-ST

EKI-5524MM-ST

EKI-5524MMI-ST

(3)

4-port +2x100FX port (Single -mode, SC type), Fast Ethernet ProView Switch ③ EKI-5524SS

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

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

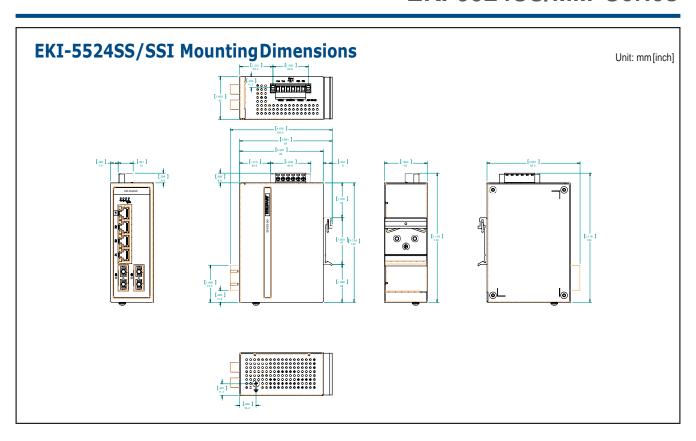
4-port +2x100FX port (Multi-mode, ST type), Fast Ethernet ProView Switch with Wide Temperature

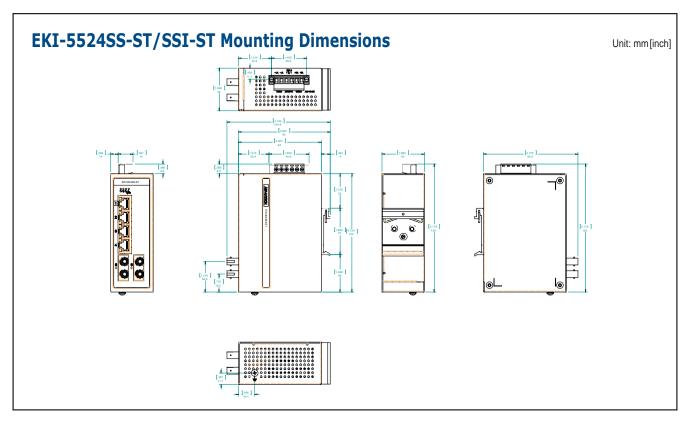
**Industrial Ethernet Solutions** 

 $All \, product \, specifications \, are \, subject to \, change \, without \, notice$ 

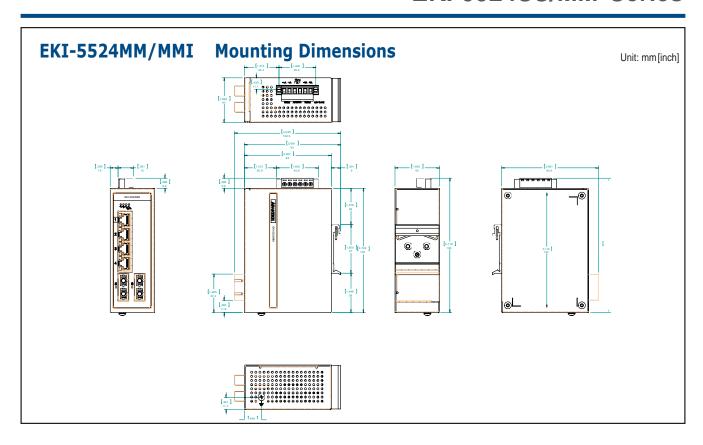
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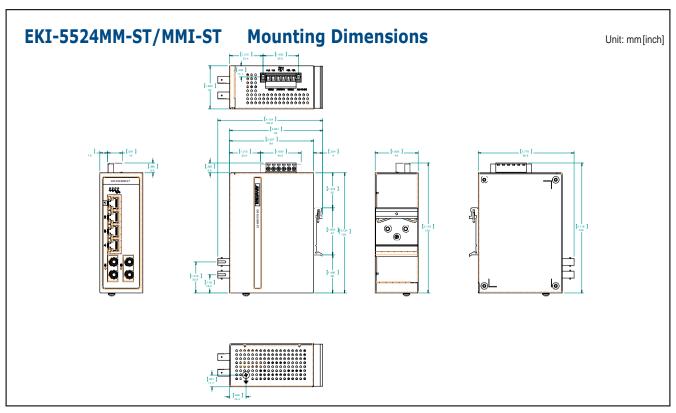
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