# 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<sub>DC</sub> (8.4 ~52.8 V<sub>DC</sub>) 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<sub>DC</sub> 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-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 interface for industrial resistance

## **Specifications**

#### **Communications**

Standard

IAN

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

Transmission Distance

10/100Base-T(X), 100Base-FX 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-55248S/SSI/SS-5T/SSI-ST)
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 2K 1M bit Packet Buffer Size Switching Capacity 1.2 Gbps Jumbo Frame 9216 bytes

#### **Power**

**Power Consumption** 

Power Input 12~48 V<sub>DC</sub> (8.4~52.8 V<sub>DC</sub>), redundant dual inputs

 Fault Output 1 Relay Output

#### Mechanism

Dimensions (W x H x D) 43 x 120 x 84 mm

IP30, metal shell with solid mounting kits

DIN-Rail, Wall Mounting

#### **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) -40 ~ 75°C (-40 ~ 167°F) 10 ~ 95% (non-condensing) **Storage Temperature** Operating Humidity Storage Humidity 10 ~ 95% (non-condensing)

MTBF 144 890 hours

### Certification

Safety EMI

IEC/EN60950, UL60950, UL508, Class 1 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 EN61000-4-4 (EFT) Level 3 EN61000-4-5 (Surge) Level 3 EN61000-4-6 (CS) Level 3 EN61000-4-8 (ICS) EN61000-EMS

Shock IEC 60068-2-27 IEC 60068-2-32 Freefall Vibration IEC 60068-2-6

## 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

A-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-5524MMI EKI-5524SS-ST

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

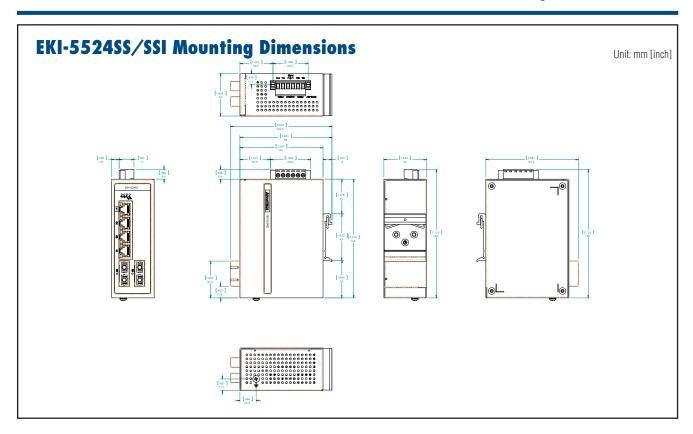
EKI-5524MMI-ST 4-port + 2 x100FX port (Multi-mode,ST type), Fast Ethernet ProView Switch with Wide Temperature

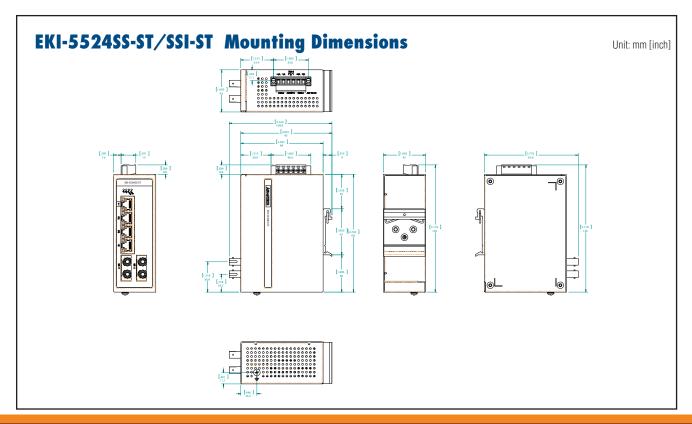
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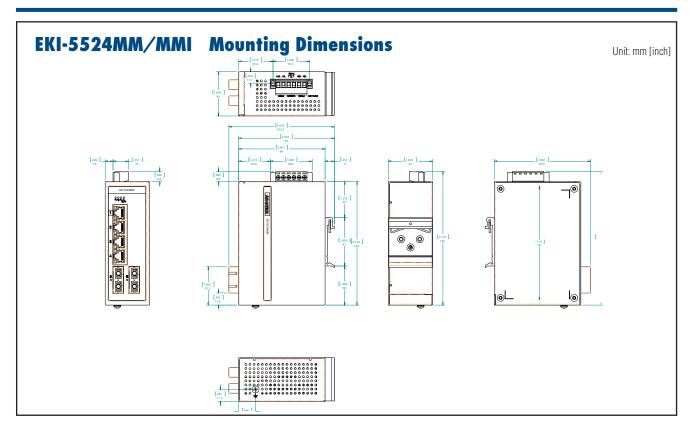


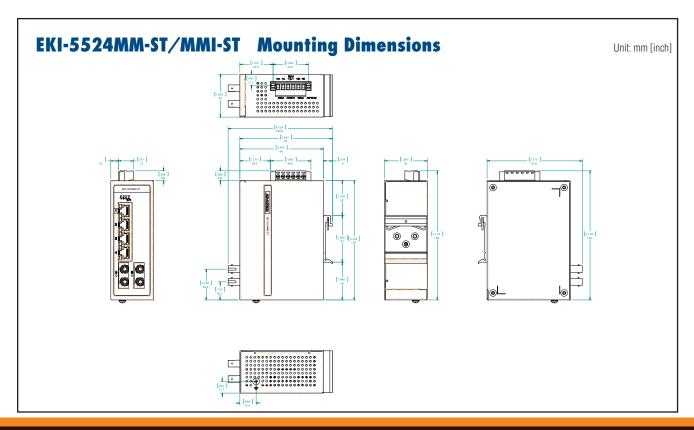
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