

EKI-5524SS/MM Series

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



Features

- ③ 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-5524MM/ MMI-ST only)
- ③ 12~48 V_{DC} (8.4~52.8 V_{DC}) wide-range power input
- 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_{DC} 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 interface for industrial resistance.

Specifications

Communications

- ③ **Standard** IEEE 802.3, 802.3u, 802.3x, 802.1p, 802.3az, 802.3ab
- ③ **LAN** 10/100Base-T(X), 100Base-FX
- ③ **Transmission Distance** Ethernet: Up to 100m
Multi-mode Fiber: Up to 2 km (EKI-5524MM Series)

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

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 100Mbps

Interface

- ③ **Connectors** 4 x RJ45 ports
2 x SC/ST type fiber optic connectors
6-pin screw Terminal Block (including relay)
- ③ **LED Indicators** P1, P2, P-Fail, Loop detection
- ③ 10/100T(X): Link/Activity, Speed

Switch Properties

- ③ **MAC Table Size** 2K
- ③ **Packet Buffer Size** 1M bit
- ③ **Switching Capacity** 1.2 Gbps
- ③ **Jumbo Frame** 9216 bytes

Power

- ③ **Power Consumption** Max. 4 W
- ③ **Power Input** 12~48 V_{DC} (8.4~52.8 V_{DC}), redundant dual inputs
- ③ **Fault Output** 1 Relay Output

Mechanism

- ③ **Dimensions (W x H x D)** 43 x 120 x 84 mm
- ③ **Enclosure** IP30, metal shell with solid mounting kits

Protection

- ③ **Reverse Polarity** Present
- ③ **Overload Current** Present

Environment

- ③ **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)
- ③ **Storage Temperature** -40 ~ 75°C (-40 ~ 167°F)
- ③ **Mounting** DIN-Rail, Wall

③	condensing)	Operating Humidity	10 ~ 95% (non-
③	condensing)	Storage Humidity	10 ~ 95% (non-
③		MTBF	144,890 hours

Certification

③	UL508, Class 1 Division 2, ATEX	Safety	IEC/EN60950, UL60950,
③	55011/55022 Class A	EMI	FCC Part 15 Subpart B Class A, EN
③		EMS	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 IEC 60068-2-27
③	Shock	Freefall	IEC 60068-2-32
③		Vibration	IEC 60068-2-6

Ordering Information

③	EKI-5524SS	4-port+2x100FX port (Single-mode, SC type), Fast Ethernet ProView Switch
③	EKI-5524SSI	4-port+2x100FX port (Single-mode, SC type), Fast Ethernet ProView Switch with Wide Temperature
③	EKI-5524MM	4-port+2x100FX port (Multi-mode, SC type), Fast Ethernet ProView Switch
③	EKI-5524MMI	4-port+2x100FX port (Multi-mode, SC type), Fast Ethernet ProView Switch with Wide Temperature
③	EKI-5524SS-ST	4-port+2x100FX port (Single-mode, ST type), Fast Ethernet ProView Switch
③	EKI-5524SSI-ST	4-port+2x100FX port (Single-mode, ST type), Fast Ethernet ProView Switch with Wide Temperature
③	EKI-5524MM-ST	4-port+2x100FX port (Multi-mode, ST type), Fast Ethernet ProView Switch
③	EKI-5524MMI-ST	4-port+2x100FX port (Multi-mode, ST type), Fast Ethernet ProView Switch with Wide Temperature

Industrial Ethernet Solutions

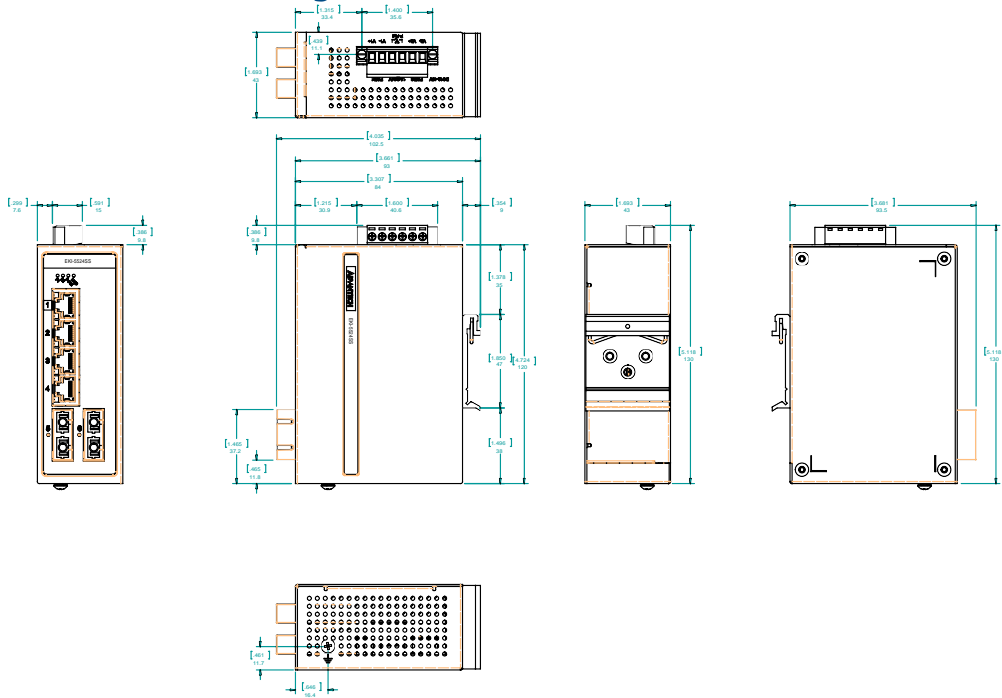
All products specifications are subject to change without notice

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EKI-5524SS/MM Series

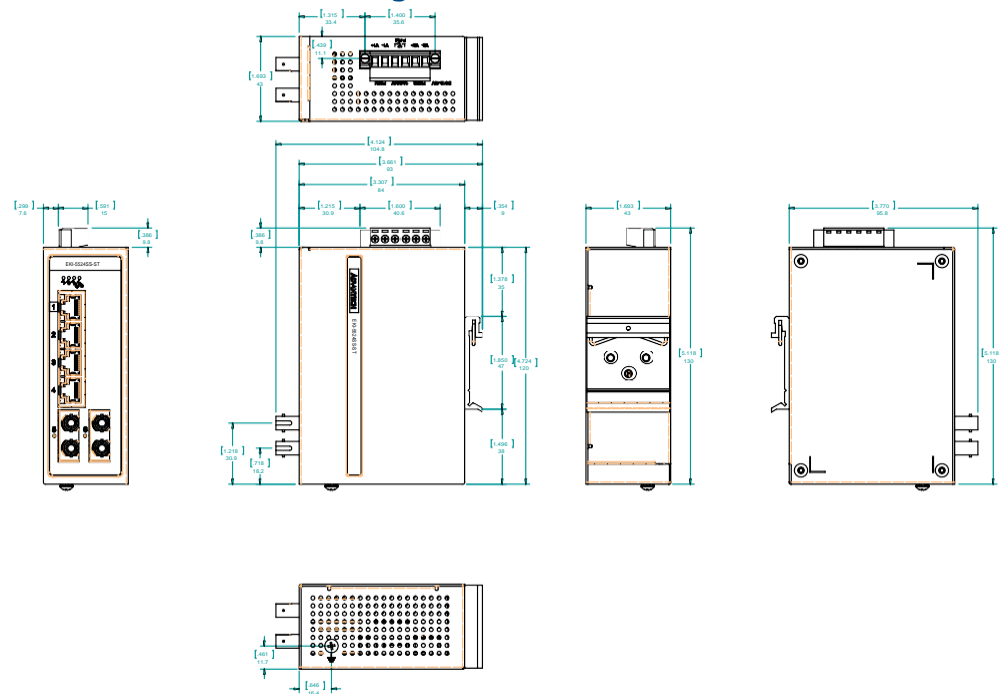
EKI-5524SS/SSI Mounting Dimensions

Unit: mm[inch]



EKI-5524SS-ST/SSI-ST Mounting Dimensions

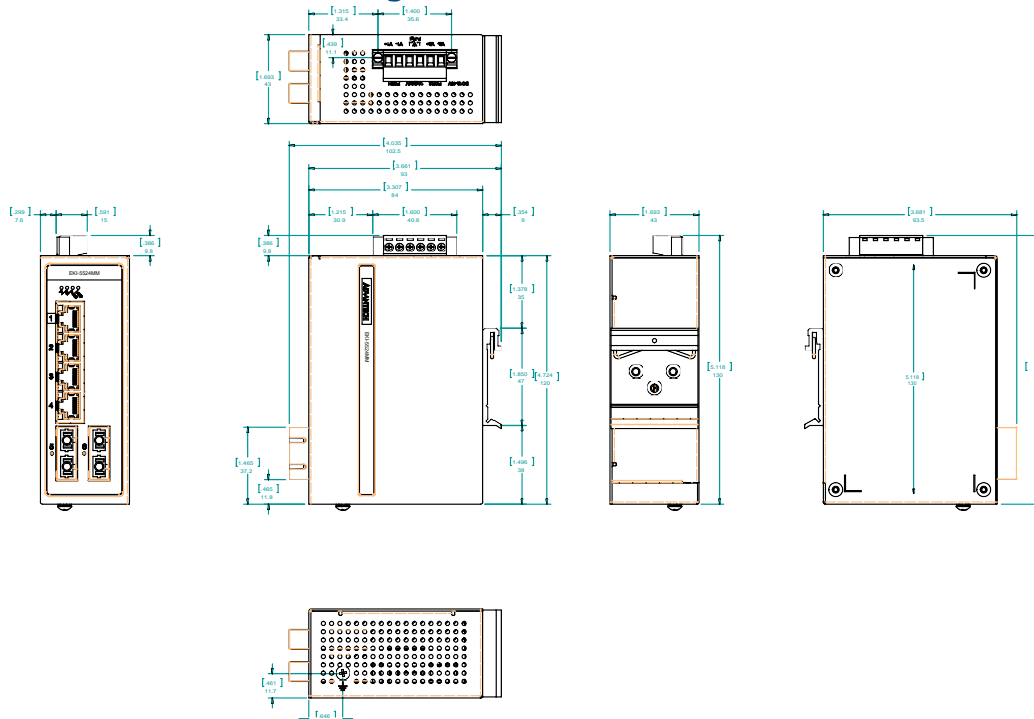
Unit: mm[inch]



EKI-5524SS/MM Series

EKI-5524MM/MMI Mounting Dimensions

Unit: mm[inch]



EKI-5524MM-ST/MMI-ST Mounting Dimensions

Unit: mm[inch]

