

# EKI-9508/9510-ST Series

# ITxPT 8/10-port Ethernet Switch



## Features

- M12 connector with IP67 rugged housing
- Complies with ITxPT, E-Mark
- Complies with UN ECE R118 & UN ECE R10
- Supports PoE IEEE802.3af/at(PoE model)
- Wide nominal power input range: 12/24V<sub>DC</sub>  
Operating power input range: 9-36V<sub>DC</sub>
- Compact size to fit in different narrow spaces
- Operating temperature: -40 ~ 70°C
- Support power ignition
- Support power delay-off
- Complies with IEC 62443-4-2

## Specifications

### Interface

- **Ethernet Port\*** M12 4pin D-coded for Fast Ethernet (10/100BASE-T)  
M12 8pin X-coded for Gigabit Ethernet (10/100/1000BASE-T)
- **Console port** M12 5pin A-coded (Management model only)
- **Power Connector** M12 5pin A-coded

\*See the port options from ordering information

### Physical

- **Enclosure** Die-cast zinc front panel and extruded aluminum chassis
- **Protection Class** IP67
- **Installation** Wall Mount
- **Dimensions** 160 x 100 x 70 mm (W x H x D)
- **Weight** 1.8 kg

### LED Display

- **System LEDs** PWR, SYS, Alarm & R.M. (Management model only)
- **Port LED** Data, PoE (PoE model only)

### Environment

- **Operating Temperature** -40 ~ 70°C (-40 ~ 158°F)
- **Storage Temperature** -40 ~ 85°C (-40 ~ 185°F)
- **Ambient Relative Humidity** 5~ 95% (non-condensing)

### Power (non-PoE Model)

- **Power Consumption** 8 Watts
- **Nominal Input voltage** 12/24V<sub>DC</sub>
- **Operating range** 9-36V<sub>DC</sub>
- **Over current protection** Yes
- **Reverse polarity protection** Yes

### Power (PoE Model)

- **Power Consumption** 15 Watts
- **Nominal Input voltage** 12/24V<sub>DC</sub>
- **Operating range** 9-36V<sub>DC</sub>
- **Over current protection** Yes
- **Reverse polarity protection** Yes
- **PoE Power Budget** 12V/30W (1-pair power input); 90W (2-pair twisted power input)  
24V; 90W

### Certification

- **Safety** EN62368-1
- **EMC** CE, EN55011/ 55032/ 55035;  
FCC Part 15 Subpart B class A  
UN ECE R10
- **EMS** EN61000-4-2 (ESD); EN61000-4-3 (RS);  
EN61000-4-4 (EFT); EN61000-4-5 (Surge);  
EN61000-4-6 (CS)

- **Shock** EN61373
- **Vibration** EN61373
- **Freefall** IEC60068-2-31
- **In-Vehicle** ITxPT, E-MARK
- **Fire protection** UN ECE R118
- **Cybersecurity** IEC 62443-4-2
- **Other** EN61000-6-4, EN61000-6-2
- **Cybersecurity** IEC 62443-4-2

### Switch Properties (Management model only)

- **DRAM** 128MB
- **Flash** 32MB
- **Max. IGMP group** 256
- **Max static VLANs** 256
- **VLAN ID range** 1-4094
- **MAC table** 8K
- **Jumbo frame** 10KB
- **Packet buffer** 4.1MB
- **Max priority queues** 8

### L2 Features (Management model only)

- **L2 MAC Address** 8K
- **Jumbo Frame** 10KB
- **VLAN Group** 256 (VLAN ID 1-4094)
- **VLAN** 802.1Q VLAN, GVRP
- **Port Mirroring** Per port, Multi-source port
- **IP Multicast** IGMP Snooping v1/v2/v3, MLD Snooping, IGMP Immediate leave
- **Storm Control** Broadcast, Multicast, Unknown unicast
- **Redundancy Protocol** IEEE 802.1D-STP, IEEE 802.1s-MSTP, IEEE 802.1w-RSTP, X-Ring Pro

### QoS (Management model only)

- **Priority Queue** Scheduling WRR (Weighted Round Robin), SP (Strict Priority)
- **Class of Service** IEEE 802.1p based CoS, IP TOS, DSCP based CoS
- **Rate Limiting** Egress Rate limit
- **Link Aggregation** IEEE 802.3ad Dynamic Port Trunking, Static Port Trunking

### Security (Management model only)

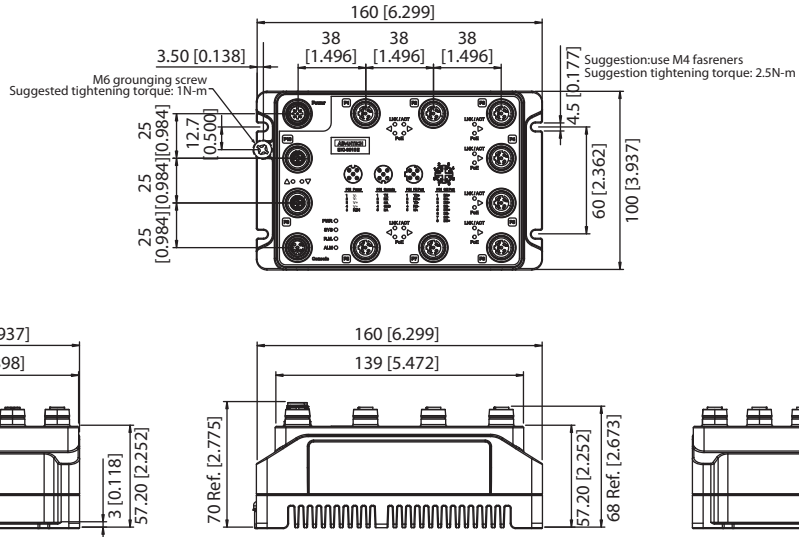
- **Port Security** Static, Dynamic
- **Authentication** 802.1x (Port-Based, MAC-Based), RADIUS, TACACS+
- **Advanced Security** IP Source Guard, Access control list

### Management (Management model only)

- **DHCP** Client, Server, Option 66/67
- **Access** SNMP v1/v2c/v3, WEB, Telnet, RMON, Standard MIB, Private MIB
- **Security Access** SSH 2.0, SSL
- **Software Upgrade** TFTP, HTTP, Dual Image
- **NTP** NTP server/client
- **Diagnostics** ITxPT Module Inventory
- **Power delay-off** 60 min

## Dimensions

Unit: mm [in.]



## Ordering Information

Model Name	Total Port Numbers	Management model	10/100BASE-T	10/100/1000BASE-T	PoE ports
EKI-9510G-MPST-B	10	Yes		10 (P1-P10)	8 (P1-P8)
EKI-9510G-MST-B	10	Yes		10 (P1-P10)	
EKI-9510G-PST-B	10			10 (P1-P10)	8 (P1-P8)
EKI-9510G-ST-B	10			10 (P1-P10)	
EKI-9510E-2GMPST-B	10	Yes	8 (P1-P8)	2 (P9-P10)	8 (P1-P8)
EKI-9510E-2GMST-B	10	Yes	8 (P1-P8)	2 (P9-P10)	
EKI-9510E-2GPST-B	10		8 (P1-P8)	2 (P9-P10)	8 (P1-P8)
EKI-9510E-2GST-B	10		8 (P1-P8)	2 (P9-P10)	
EKI-9510E-MPST-B	10	Yes	10 (P1-P10)		8 (P1-P8)
EKI-9510E-MST-B	10	Yes	10 (P1-P10)		
EKI-9510E-PST-B	10		10 (P1-P10)		8 (P1-P8)
EKI-9510E-ST-B	10		10 (P1-P10)		
EKI-9508G-MPST-B	8	Yes		8 (P1-P8)	8 (P1-P8)
EKI-9508G-MST-B	8	Yes		8 (P1-P8)	
EKI-9508G-PST-B	8			8 (P1-P8)	8 (P1-P8)
EKI-9508G-ST-B	8			8 (P1-P8)	
EKI-9508E-MPST-B	8	Yes	8 (P1-P8)		8 (P1-P8)
EKI-9508E-MST-B	8	Yes	8 (P1-P8)		
EKI-9508E-PST-B	8		8 (P1-P8)		8 (P1-P8)
EKI-9508E-ST-B	8		8 (P1-P8)		

## Accessories

PN		Description
OPT1-M12-CRP-4MD		Phoenix Contact M12 D-code 4 pin Male crimp type connector
OPT1-M12-CRP-8MX		Phoenix Contact M12 X-code 8 pin Male crimp type connector
OPT1-M12-CRP-5MA		Phoenix Contact M12 A-code 5 pin Male crimp type connector
OPT1-M12C-4MD-150R		M12 D-code 4 pin Male to RJ45, cable length: 1.5m
OPT1-M12C-8MX-150R		M12 X-code 8 pin Male to RJ45, cable length: 1.5m
OPT1-M12C-5MA-DB9		M12 A-code 5 pin Male to DB9 console, cable length: 1.5m
OPT1-M12C-5FA-100		M12 A-code 5 pin Female to 1m power cable
OPT1-MCP-6F-100		M12-A code to MCP cable 1M power cable support ignition
1990023703S000		M12 waterproof CAP (1pc.)