EKI-5524SS/MM Series

4-port + 2x100FX port (Single/Multi-mode, 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-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** 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 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 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
- **Packet Buffer Size** 1M bit
- **Switching Capacity** 1.2 Gbps
- **Jumbo Frame** 9216 bytes

Power

- **Power Consumption** Max. 4 W
- **Power Input** 12~48 V_{DC} (8.4~52.8 V_{DC}), redundant dual inputs
- **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** -40 ~ 75°C (-40 ~ 167°F)
- **Operating Humidity** 10 ~ 95% (non-condensing)
- **Storage Humidity** 10 ~ 95% (non-condensing)
- **MTBF** 144,890 hours

Certification

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

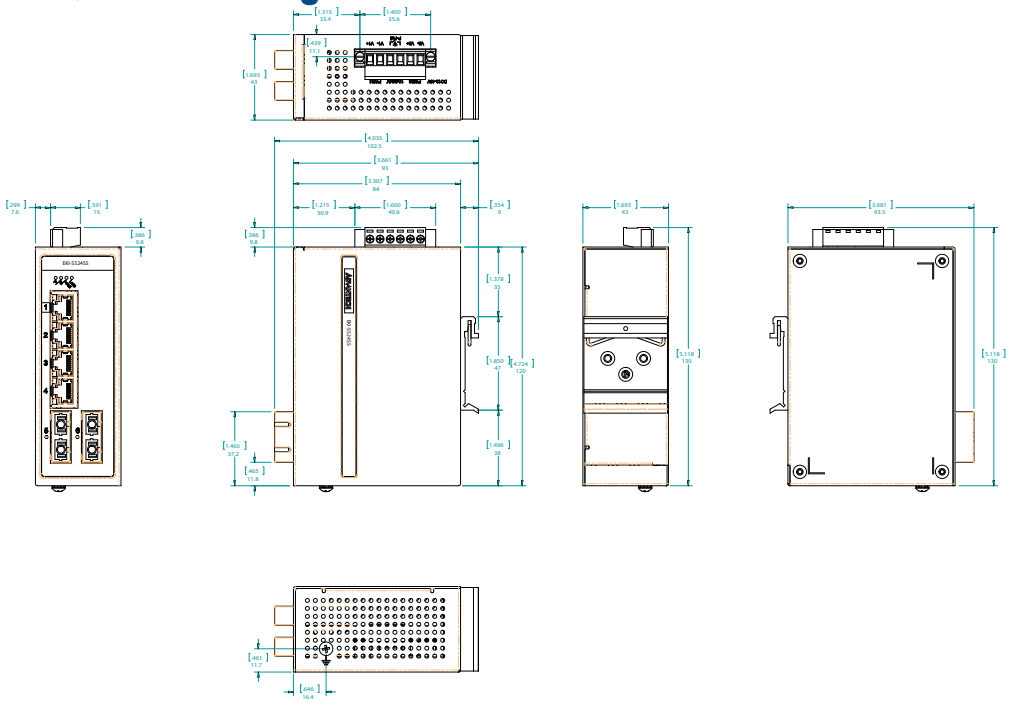
Ordering Information

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

Date updated: 26-Jan-2015

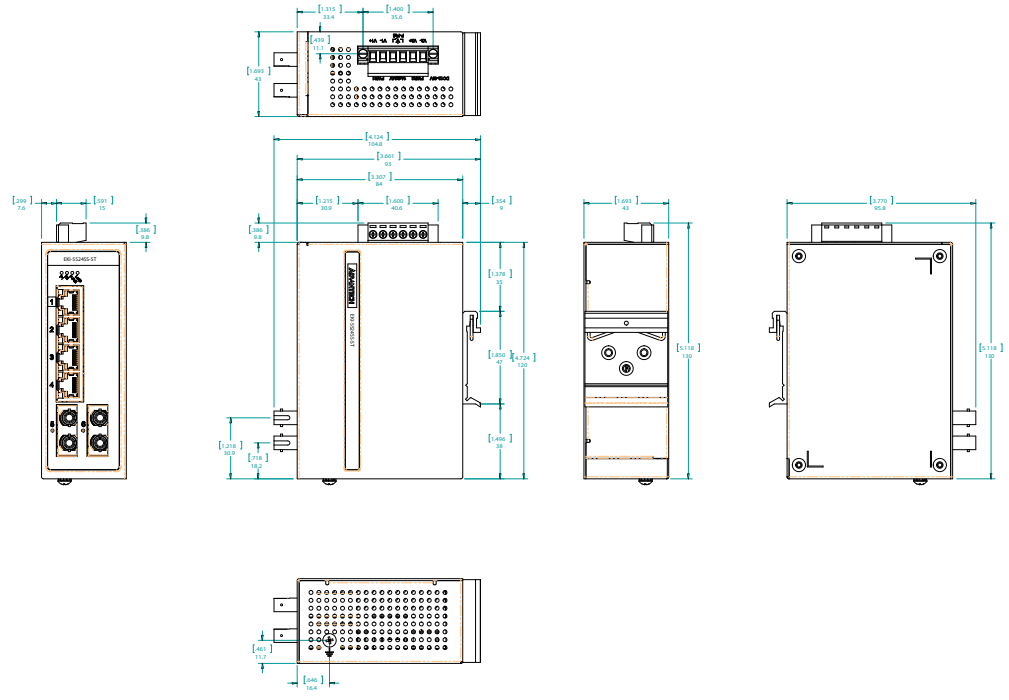
EKI-5524SS/SSI Mounting Dimensions

Unit: mm [inch]



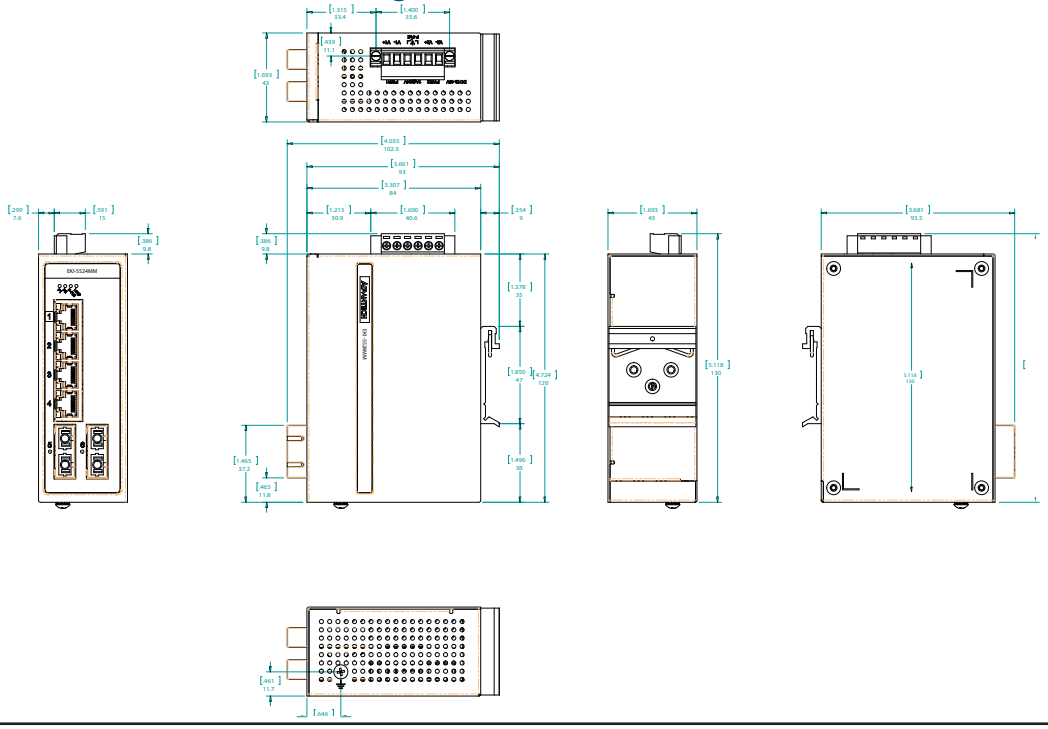
EKI-5524SS-ST/SSI-ST Mounting Dimensions

Unit: mm [inch]



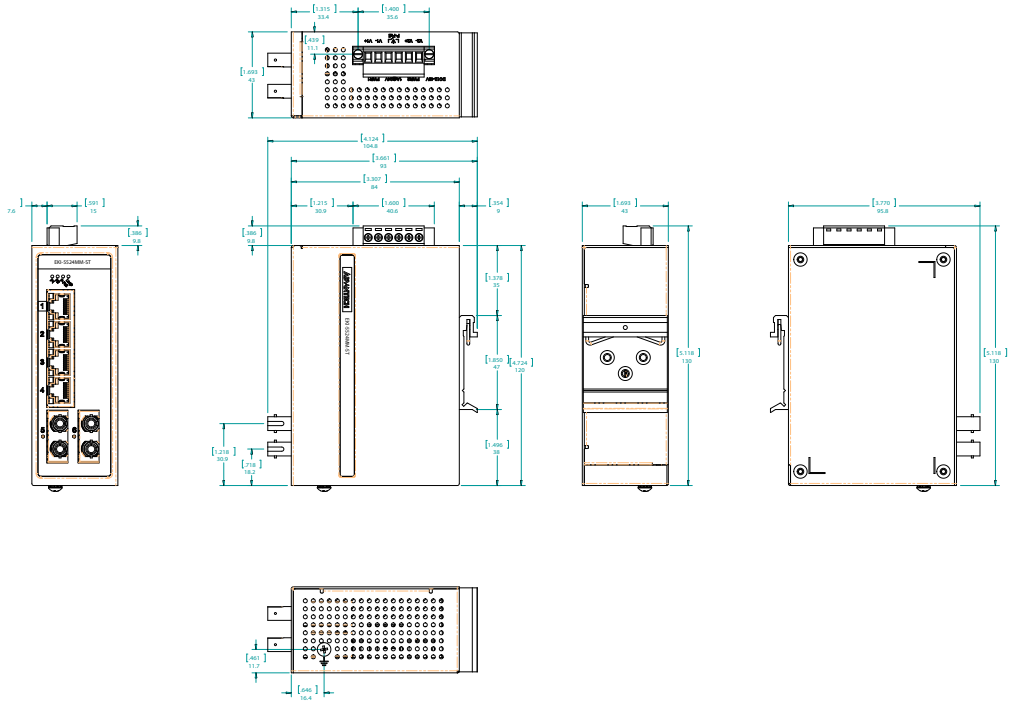
EKI-5524MM/MMI Mounting Dimensions

Unit: mm [inch]



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

Unit: mm [inch]



EKI-5525/I
EKI-5528/I

5-port Fast Ethernet ProView Switch

8-port 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-5525I and EKI-5528I only)
- 12 ~ 48 V_{DC} (8.4 ~ 52.8 V_{DC}) wide-range power inputEMS level 3 protection for extreme outdoor environments
- IEEE 802.3az Energy Efficient Ethernet (EEE)
- Jumbo Frame Support
- Supports redundant 12 ~ 48 V_{DC} power input and P-Fail relay
- Loop detection

Introduction

The EKI-5525/I and EKI-5528/I 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 the 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-5525/I and EKI-5528/I 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
LAN	10/100Base-T(X)
Transmission Distance	Up to 100 m
Transmission Speed	Up to 100 Mbps

Interface

Connectors	EKI-5525/I: 5 x RJ45 EKI-5528/I: 8 x RJ45 6-pin removable screw terminal (power & relay)
LED Indicators	P1, P2, P-Fail, Loop detection 10/100T (X): Link/Activity, Speed

Switch Properties

MAC Table Size	EKI-5525/I: 2K EKI-5528/I: 8K
Packet Buffer Size	EKI-5525/I: 1M bit EKI-5528/I: 128K bit
Switching Capacity	EKI-5525/I: 1Gbps EKI-5528/I: 1.6 Gbps
Jumbo Frame	EKI-5525/I: 9216 bytes EKI-5528/I: 2048 bytes

Power

Power Consumption	EKI-5525/I: Max. 2 W EKI-5528/I: Max.3.6 W
Power Input	12~48 V_{DC} (8.4~52.8 V_{DC}), redundant dual inputs
Fault Output	1 Relay Output

Mechanism

Dimensions (W x H x D)	EKI-5525/I: 27 x 120 x 84 mm EKI-5528/I: 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-5525 & EKI-5528: -10~60°C (14~140°F) EKI-5525I & EKI-5528I: -40~75°C (-40~167°F)
Storage Temperature	-40 ~ 85°C (-40 ~ 185°F)
Operating Humidity	10 ~ 95% (non-condensing)
Storage Humidity	10 ~ 95% (non-condensing)
MTBF	EKI-5525/I: 5,168,110 hours EKI-5528/I: 5,235,270 hours

Certification

Safety	IIEC/EN60950, UL60950, UL508, Class 1 Division 2, ATEX
EMI	FCC Part 15 Subpart B Class A, EN 55011/55022 Class A
EMS	EN 61000-4-2 (Level 3) EN 61000-4-3 (Level 3) EN 61000-4-4 (Level 3) EN 61000-4-5 (Level 3) EN 61000-4-6 (Level 3) EN 61000-4-8 (Level 3)
Shock	IEC 60068-2-27
Freefall	IEC 60068-2-32
Vibration	IEC 60068-2-6

Ordering Information

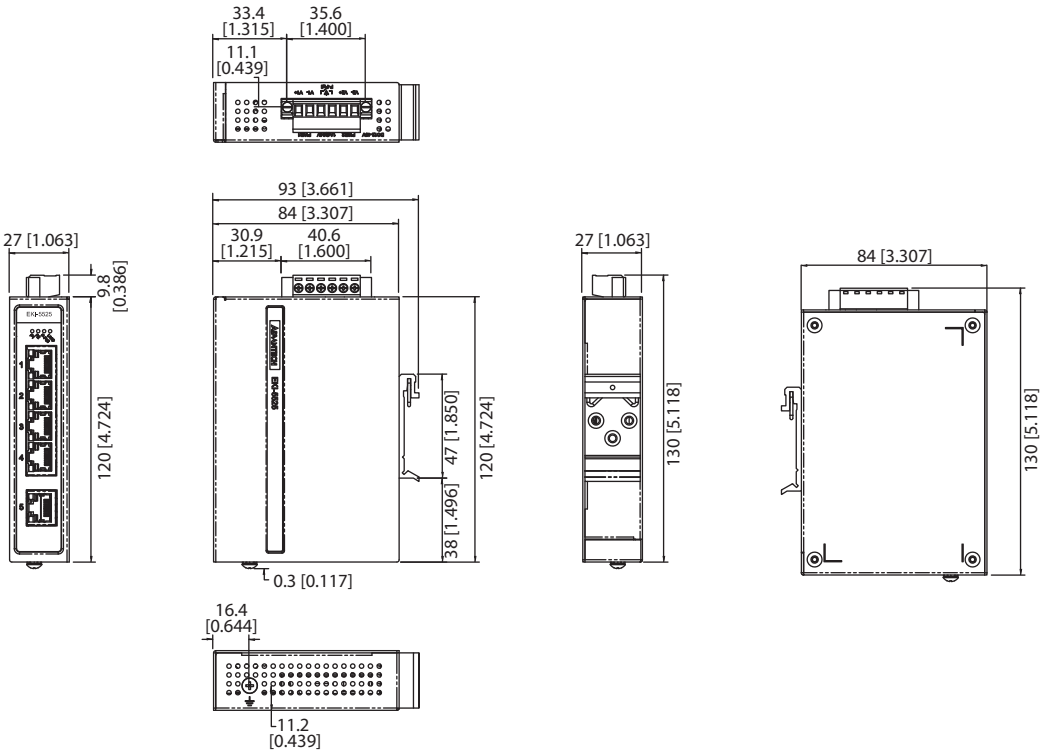
EKI-5525	5-port Fast Ethernet ProView Switch
EKI-5525I	5-port Fast Ethernet ProView Switch with Wide Temperature
EKI-5528	8-port Fast Ethernet ProView Switch
EKI-5528I	8-port Fast Ethernet ProView Switch with Wide Temperature

Last updated : 5-May-2015

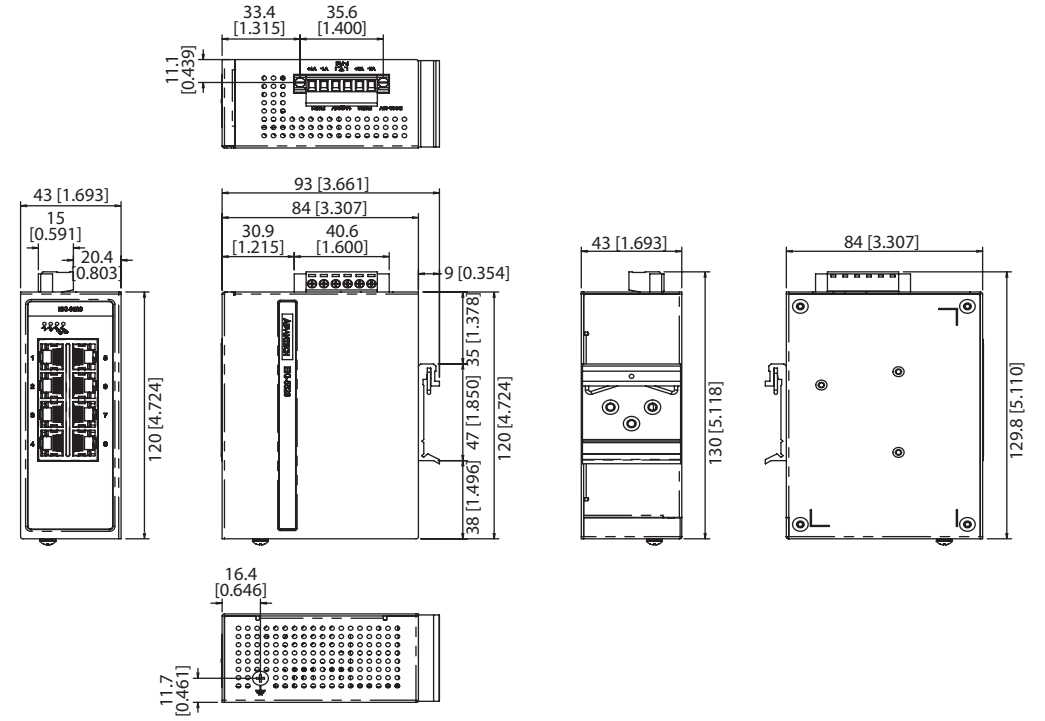
Dimensions

Unit: mm [inch]

EKI-5525



EKI-5528



EKI-5525S/M Series

4-port +1x100FX port (Single/Multi-mode, 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-5525SI/SI-ST,EKI-5525MI/MI-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-5525S/SI/S-ST/SI-ST and EKI-5525M/MI/M-ST/MI-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-5525S/SI/S-ST/SI-ST and EKI-5525M/MI/M-ST/MI-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
- **LAN** 10/100Base-T(X), 100Base-FX
- **Transmission Distance** Ethernet: Up to 100 m
  Multi-mode Fiber: Up to 2 km (EKI-5525M Series)
  Single-mode Fiber: Up to 30 km (EKI-5525S Series)
- **Optical Fiber**
  Multi-Mode (EKI-5525M/MI/M-ST/MI-ST)
  Wavelength:1310nm
  Tx Power: -14/-20 dBm
  Rx Sensitivity: -32 dBm
  Parameters: 50/125 um, 62.5/125 um
  Single-Mode (EKI-5525S/SI/S-ST/SI-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
  1 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
- **Packet Buffer Size** 1M bit
- **Switching Capacity** 1 Gbps
- **Jumbo Frame** 9216 bytes

Power

- **Power Consumption** Max. 2.8 W
- **Power Input** 12~48 V_{DC} (8.4~52.8 V_{DC}), redundant dual inputs
- **Fault Output** 1 Relay Output

Mechanism

- **Dimensions (W x H x D)** 27 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-5525S/S-ST/M/M-ST: -10~60°C (14~140°F)
  EKI-5525SI/SI-ST/MI/MI-ST: -40~75°C (-40~167°F)
- **Storage Temperature** -40 ~ 75°C (-40 ~ 167°F)
- **Operating Humidity** 10 ~ 95% (non-condensing)
- **Storage Humidity** 10 ~ 95% (non-condensing)
- **MTBF** 282,703 hours

Certification

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

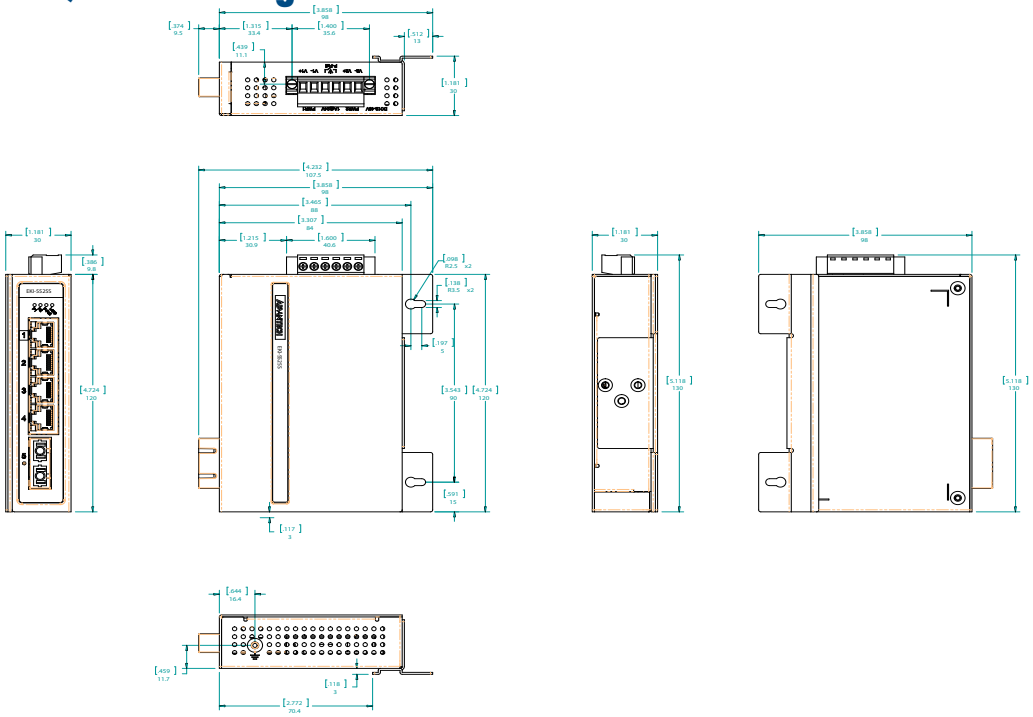
Ordering Information

- **EKI-5525S** 4-port +1 x100FX port (Single -mode, SC type), Fast Ethernet ProView Switch
- **EKI-5525SI** 4-port + 1 x100FX port (Single-mode, SC type), Fast Ethernet ProView Switch with Wide Temperature
- **EKI-5525M** 4-port + 1 x100FX port (Multi-mode, SC type), Fast Ethernet ProView Switch
- **EKI-5525MI** 4-port + 1 x100FX port (Multi-mode, SC type), Fast Ethernet ProView Switch with Wide Temperature
- **EKI-5525S-ST** 4-port + 1 x100FX port (Single-mode, ST type), Fast Ethernet ProView Switch
- **EKI-5525SI-ST** 4-port + 1 x100FX port (Single-mode, ST type), Fast Ethernet ProView Switch with Wide Temperature
- **EKI-5525M-ST** 4-port + 1 x100FX port (Multi-mode, ST type), Fast Ethernet ProView Switch
- **EKI-5525MI-ST** 4-port + 1 x100FX port (Multi-mode, ST type), Fast Ethernet ProView Switch with Wide Temperature

Date updated: 26-Jan-2015

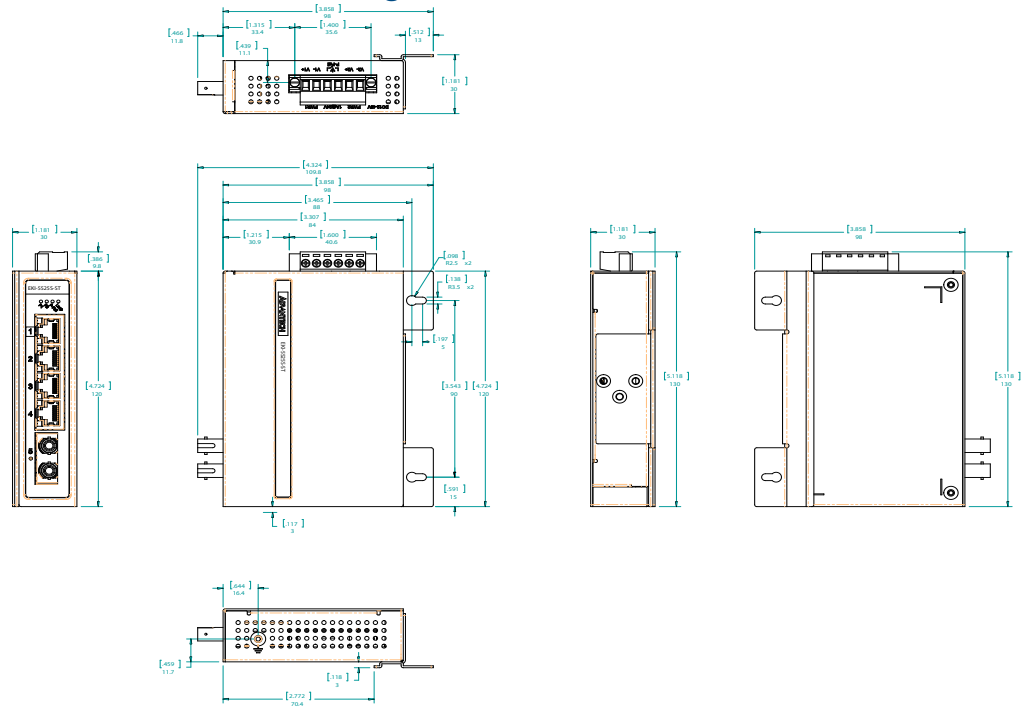
EKI-5525S/SI Mounting Dimensions

Unit: mm [inch]



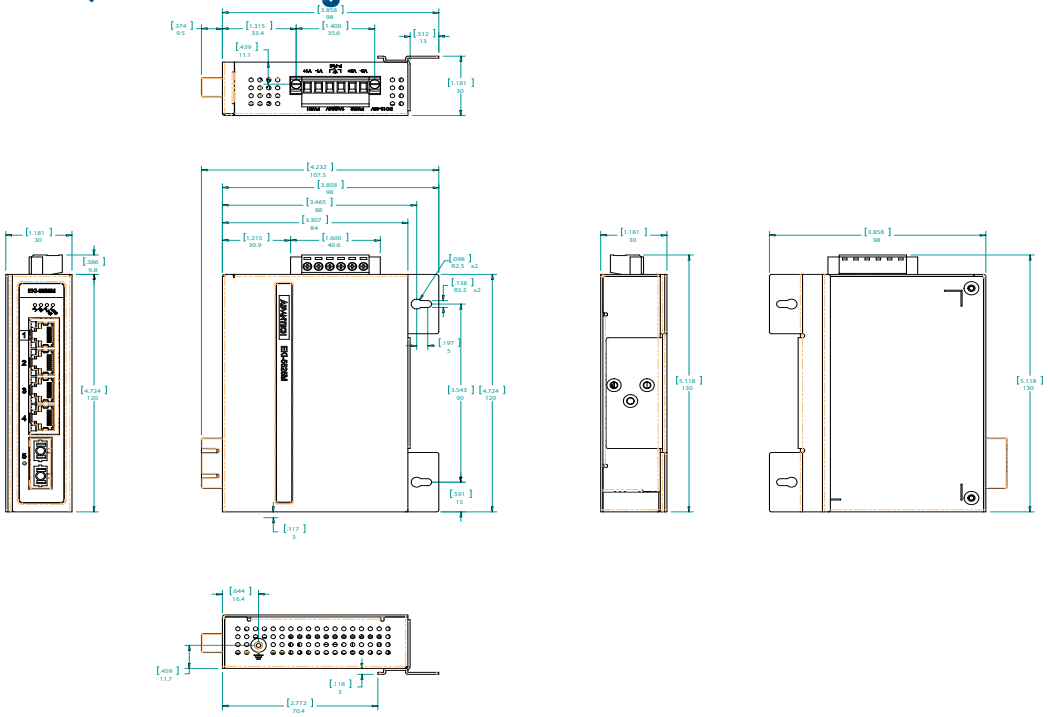
EKI-5525S-ST/SI-ST Mounting Dimensions

Unit: mm [inch]



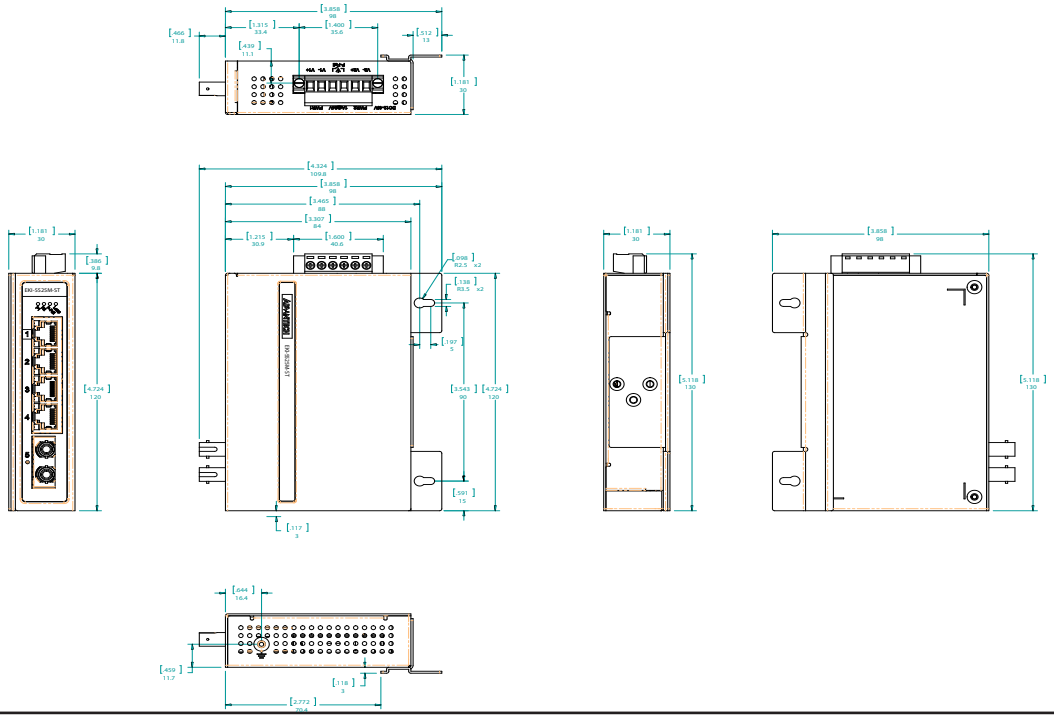
EKI-5525M/MI Mounting Dimensions

Unit: mm [inch]



EKI-5525M-ST/MI-ST Mounting Dimensions

Unit: mm [inch]



EKI-5526/I

16-port 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-5526I 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 2048 Bytes)
- Supports redundant 12~48V_{DC} power input and P-Fail relay
- Loop detection

Introduction

The EKI-5526/I 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 the 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-5526/I 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
- **LAN** 10/100Base-T(X)
- **Transmission Distance** Up to 100 m
- **Transmission Speed** Up to 100 Mbps

Interface

- **Connectors** 16 x RJ45
  6-pin removable screw terminal (power & relay)
- **LED Indicators** P1, P2, P-Fail, Loop detection
  10/100T(X): Link/Activity, Speed

Switch Properties

- **MAC Table Size** 8K
- **Packet Buffer Size** 128K bit
- **Switching Capacity** 3.2 Gbps
- **Jumbo Frame** 2048bytes

Power

- **Power Consumption** Max. 3.84 W
- **Power Input** 12~48 V_{DC} (8.4~52.8 V_{DC}), redundant dual inputs
- **Fault Output** 1 Relay Output

Mechanism

- **Dimensions (W x H x D)** 74 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-5526: -10~60°C (14~140°F)
  EKI-5526I: -40~75°C (-40~167°F)
- **Storage Temperature** -40 ~ 85°C (-40 ~ 185°F)
- **Operating Humidity** 10 ~ 95% (non-condensing)
- **Storage Humidity** 10 ~ 95% (non-condensing)
- **MTBF** 4,653,552 hours

Certification

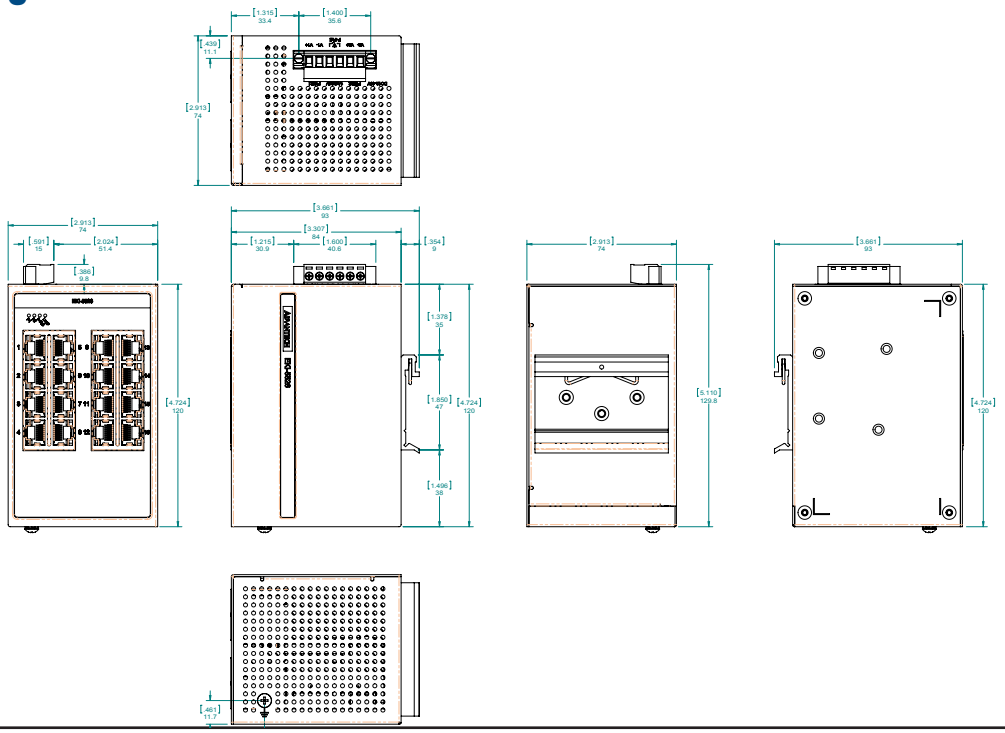
- **Safety** IEC/EN60950, UL60950, UL508, Class 1 Division 2, ATEX
- **EMI** FCC Part 15 Subpart B Class A, EN 55011/55022 Class A
- **EMS** EN 61000-4-2 (Level 3)
  EN 61000-4-3 (Level 3)
  EN 61000-4-4 (Level 3)
  EN 61000-4-5 (Level 3)
  EN 61000-4-6 (Level 3)
  EN 61000-4-8 (Level 3)
- **Shock** IEC 60068-2-27
- **Freefall** IEC 60068-2-32
- **Vibration** IEC 60068-2-6

Ordering Information

- **EKI-5526** 16-port Fast Ethernet ProView Switch
- **EKI-5526I** 16-port Fast Ethernet ProView Switch with Wide Temperature

Mounting Dimensions

Unit: mm [inch]



EKI-5629C/CI
EKI-5626C/CI

8FE + 2GE Combo Ethernet ProView Switch

16FE + 2GE Combo 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-5629CI/5626CI only)
- EMS level 3 protection for extreme outdoor environments
- 12~48 V_{DC} (8.4~52.8 V_{DC})wide-range power input
- IEEE 802.3az Energy Efficient Ethernet (EEE)
- Jumbo Frame Support (Up to 9,216 Bytes)
- Supports redundant 12~48 V_{DC} power input and P-Fail relay
- Loop detection

Introduction

The EKI-5629C/CI and EKI-5626C/CI is 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 the 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-5629C/CI and EKI-5626C/CI 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
LAN	10/100/1000Base-T(X), Optional 100Base-FX, 1000Base-SX/LX/LHX/XD/ZX/EZX
Transmission Distance	Ethernet: UP to 100m (4-wire Cat.5e, Cat.6 RJ-45 cable suggested for Gigabit port) SFP: UP to 110km (depends on SFP)
Transmission Speed	Ethernet: 10/100Mbps Auto-Negotiation Gigabit Copper: 10/100/1000Mbps, Auto-Negotiation Gigabit Fiber: UP to 1000Mbps

Interface

Connectors	EKI-5629C/CI: 8 x Fast Ethernet (RJ45) + 2 x Giga(RJ45/SFP) combo ports EKI-5626C/CI:16 x Fast Ethernet (RJ45) + 2 x Giga(RJ45/SFP) combo ports 6-pin removable screw terminal (power & relay)
LED Indicators	P1, P2, P-Fail, Loop detection 10/100T(X): Link/Activity, Speed Gigabit Copper: Link/Activity, Speed (1000 Mbps) SFP: Lin k/Activity

Switch Properties

MAC Table Size	8K
Packet Buffer Size	4.1M bit
Switch Capacity	EKI-5629C/CI: 5.6 Gbps EKI-5626C/CI: 7.2 Gbps
Jumbo Frame	9216 bytes

Power

Power Consumption	EKI-5629C/CI: 5.8W EKI-5626C/CI: 8.2W
Power Input	12 ~ 48 V_{DC} (8.4~52.8 V_{DC}), redundant dual inputs
Fault Output	1 Relay Output

Mechanism

Dimensions (W x H x D)	74 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-5629C/5626C: -10 ~ 60°C (14~140°F) EKI-5629CI/5626CI: -40 ~ 75°C (-40~167°F)
Storage Temperature	-40 ~ 85°C (-40 ~ 185°F)
Operating Humidity	10 ~ 95% (non-condensing)
Storage Humidity	10 ~ 95% (non-condensing)
MTBF	EKI-5629C/CI: 3,183,604 hours EKI-5626C/CI: 2,825,281 hours

Certification

Safety	IEC/EN60950, UL60950, UL508, Class 1 Division 2, ATEX
EMI	FCC Part 15 Subpart B Class A, EN 55011/55022 Class A
EMS	EN 61000-4-2 (Level 3) EN 61000-4-3 (Level 3) EN 61000-4-4 (Level 3) EN 61000-4-5 (Level 3) EN 61000-4-6 (Level 3) EN 61000-4-8 (Level 3)
Shock	IEC 60068-2-27
Freefall	IEC 60068-2-32
Vibration	IEC 60068-2-6

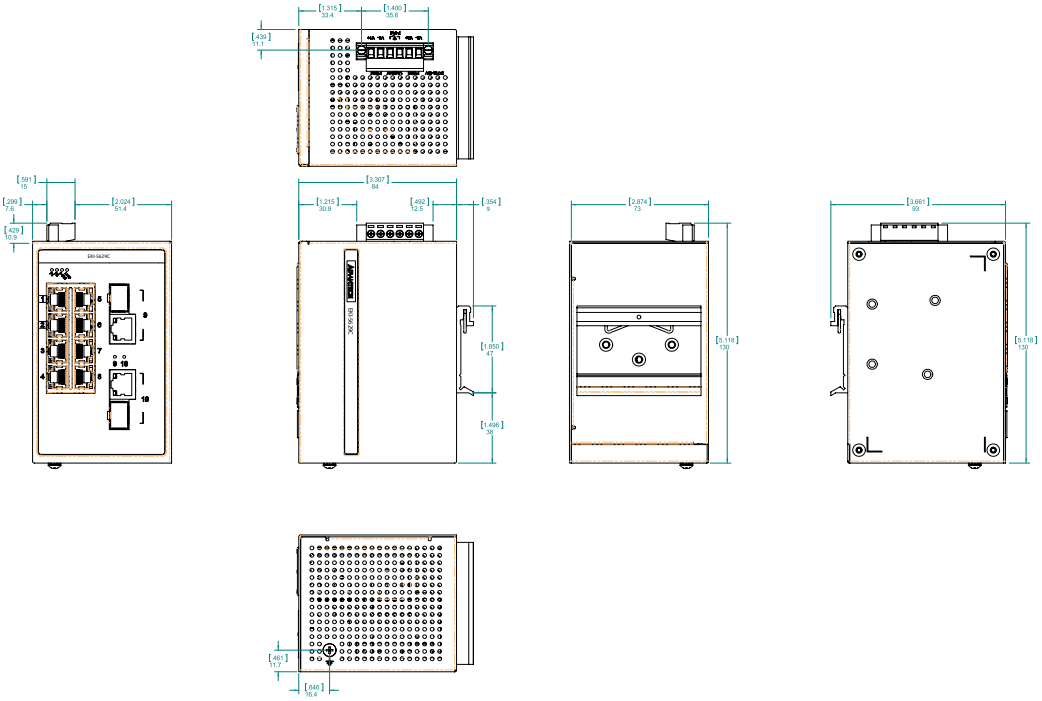
Ordering Information

EKI-5629C	8FE + 2GE Combo Ethernet ProView Switch
EKI-5629CI	8FE + 2GE Combo Ethernet ProView Switch with Wide Temperature
EKI-5626C	16FE + 2GE Combo Ethernet ProView Switch
EKI-5626CI	16FE + 2GE Combo Ethernet ProView Switch with Wide Temperature

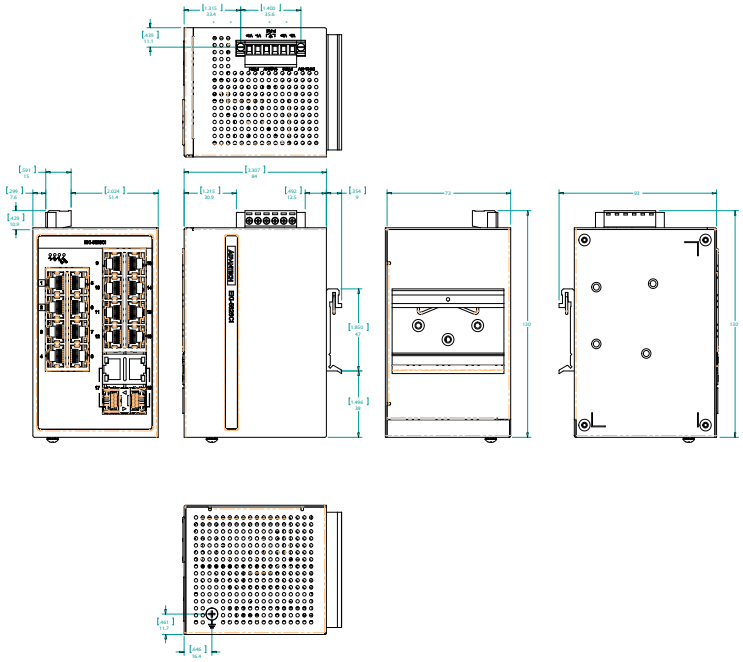
Date updated: 26-Jan-2015

EKI-5629C/CI Mounting Dimensions

Unit: mm [inch]



EKI-5626C/CI Mounting Dimensions



EKI-5725/I
EKI-5728/I

5-port Gigabit Ethernet ProView Switch

8-port Gigabit 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-5725I and EKI-5728I only)
- 12 ~ 48V_{DC} (8.4 ~ 52.8V_{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 ~ 48 V_{DC} power input and P-Fail relay
- Loop detection

Introduction

The EKI-5725/I and EKI-5728/I 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 the 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-5725/I and EKI-5728/I 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
LAN	10/100/1000Base-T(X)
Transmission Distance	Up to 100 m
Transmission Speed	Up to 1000 Mbps

Interface

Connectors	EKI-5725/I: 5 x RJ45 EKI-5728/I: 8 x RJ45 6-pin removable screw terminal (power & relay)
LED Indicators	P1, P2, P-Fail, Loop detection 10/100/1000T(X): Link/Activity, Speed

Switch Properties

MAC Table Size	EKI-5725/I: 2K EKI-5728/I: 8K
Packet Buffer Size	EKI-5725/I: 1M bit EKI-5728/I: 4.1M bit
Switching Capacity	EKI-5725/I: 10 Gbps EKI-5728/I: 16 Gbps
Jumbo Frame	9216 bytes

Power

Power Consumption	EKI-5725/I: Max. 2 W EKI-5728/I: Max.5.2 W
Power Input	12~48 V_{DC} (8.4~52.8 V_{DC}), redundant dual inputs
Fault Output	1 Relay Output

Mechanism

Dimensions (W x H x D)	EKI-5725/I: 27 x 120 x 84 mm EKI-5728/I: 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-5725 & EKI-5728: -10~60°C (14~140°F) EKI-5725I & EKI-5728I: -40~75°C (-40~167°F)
Storage Temperature	-40 ~ 85°C (-40 ~ 185°F)
Operating Humidity	10 ~ 95% (non-condensing)
Storage Humidity	10 ~ 95% (non-condensing)
MTBF	EKI-5725/I: 5,168,110 hours EKI-5728/I: 4,176,861 hours

Certification

Safety	IEC/EN60950, UL60950, UL508, Class 1 Division 2, ATEX
EMI	FCC Part 15 Subpart B Class A, EN 55011/55022 Class A
EMS	EN 61000-4-2 (Level 3) EN 61000-4-3 (Level 3) EN 61000-4-4 (Level 3) EN 61000-4-5 (Level 3) EN 61000-4-6 (Level 3) EN 61000-4-8 (Level 3)
Shock	IEC 60068-2-27
Freefall	IEC 60068-2-32
Vibration	IEC 60068-2-6

Ordering Information

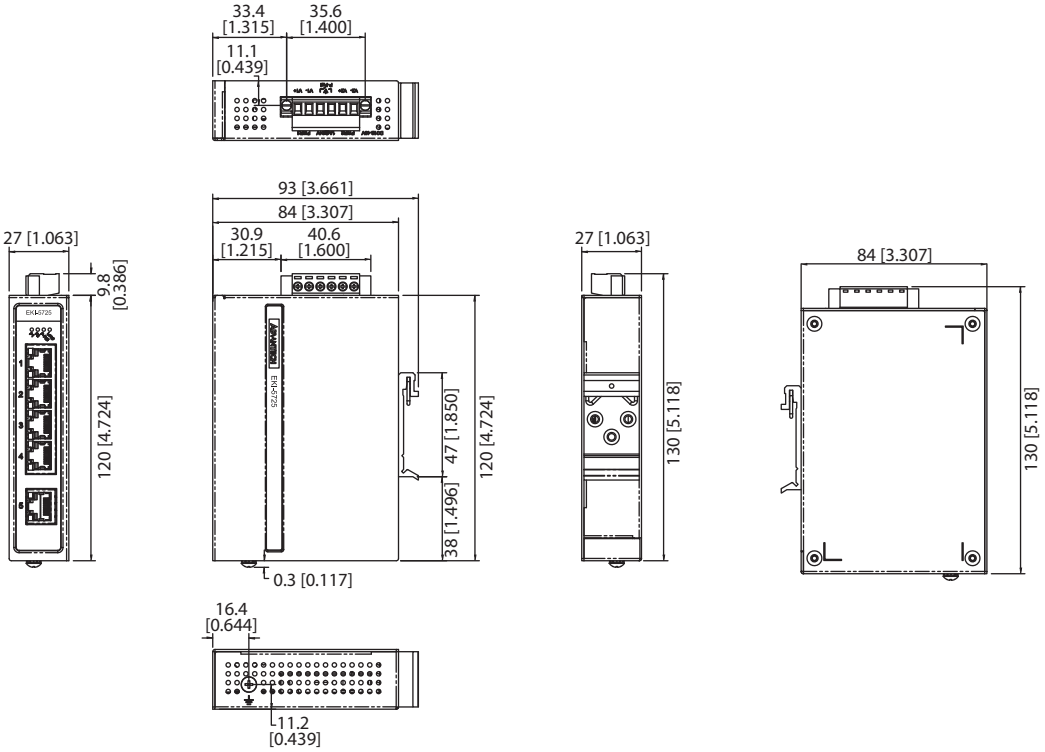
EKI-5725	5-port Gigabit Ethernet ProView Switch
EKI-5725I	5-port Gigabit Ethernet ProView Switch with Wide Temperature
EKI-5728	8-port Gigabit Ethernet ProView Switch
EKI-5728I	8-port Gigabit Ethernet ProView Switch with Wide Temperature

Last updated : 5-May-2015

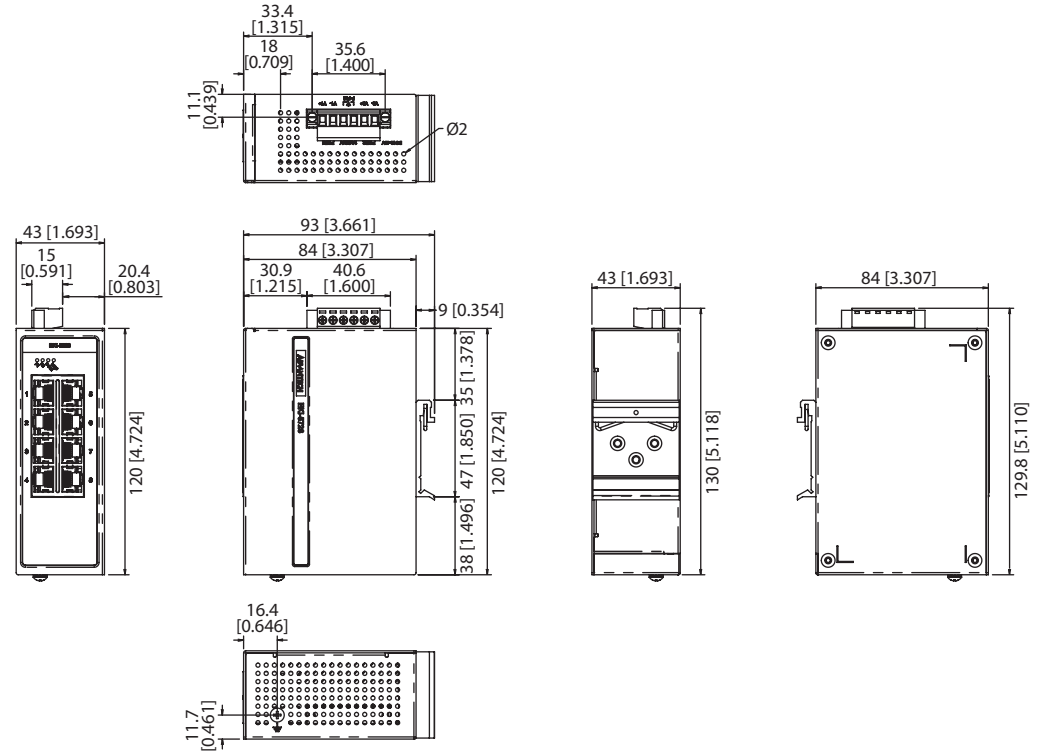
Dimensions

Unit: mm [inch]

EKI-5725/I



EKI-5728/I



EKI-5726/I

16-port Gigabit 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-5726I 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 ~ 48 V_{DC} power input and P-Fail relay
- Loop detection

Introduction

The EKI-5726/I is the world's first convergence switch for process control and IT networking management. This series uses Modbus/TCP to communicate with the SCADA software and SNMP to communicate with the 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. The EKI-5726/I switch uses 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
- **LAN** 10/100/1000Base-T(X)
- **Transmission Distance** Up to 100 m
- **Transmission Speed** Up to 1000 Mbps

Interface

- **Connectors** 16 x RJ45
  6-pin removable screw terminal (power & relay)
- **LED Indicators** P1, P2, P-Fail, Loop detection
  10/100/1000T(X): Link/Activity, Speed

Switch Properties

- **MAC Table Size** 8K
- **Packet Buffer Size** 4.1M bit
- **Switching Capacity** 32 Gbps
- **Jumbo Frame** 9216 bytes

Power

- **Power Consumption** Max. 8 W
- **Power Input** 12~48 V_{DC} (8.4~52.8 V_{DC}), redundant dual inputs
- **Fault Output** 1 Relay Output

Mechanism

- **Dimensions (W x H x D)** 74 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-5726: -10~60°C (14~140°F)
  EKI-5726I: -40~75°C (-40~167°F)
- **Storage Temperature** -40 ~ 85°C (-40 ~ 185°F)
- **Operating Humidity** 10 ~ 95% (non-condensing)
- **Storage Humidity** 10 ~ 95% (non-condensing)
- **MTBF** 2,788,343 hours

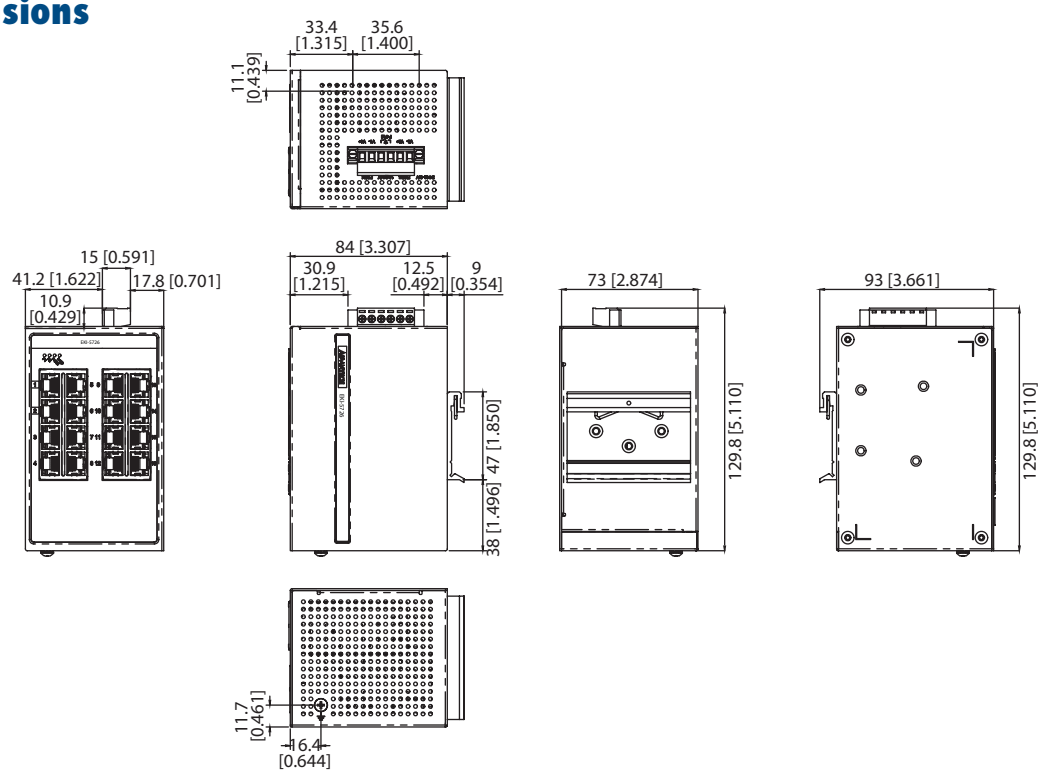
Certification

- **Safety** IEC/EN60950, UL60950, UL508, Class 1 Division 2, ATEX
- **EMI** FCC Part 15 Subpart B Class A, EN 55011/55022 Class A
- **EMS** EN 61000-4-2 (Level 3)
  EN 61000-4-3 (Level 3)
  EN 61000-4-4 (Level 3)
  EN 61000-4-5 (Level 3)
  EN 61000-4-6 (Level 3)
  EN 61000-4-8 (Level 3)
- **Shock** IEC 60068-2-27
- **Freefall** IEC 60068-2-32
- **Vibration** IEC 60068-2-6

Last updated : 5-May-2015

Dimensions

Unit: mm [inch]



Ordering Information

- **EKI-5726** 16-port Gigabit Ethernet PorView switch
- **EKI-5726I** 16-port Gigabit Ethernet ProView Switch with Wide Temperature

EKI-5726F/FI

16-port+2 SFP Gigabit 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-5726FI 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-5726F/FI 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 the 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-5726F/FI 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
- **LAN** 10/100/1000Base-T(X), Optional 100Base-FX, 1000Base-SX/LX/LHX/XD/ZX/EZX
- **Transmission Distance** Ethernet: UP to 100 m (4-wire Cat.5e, Cat.6 RJ-45 cable suggested for Gigabit port)
  SFP: UP to 110 km (depends on SFP)
- **Transmission Speed** Ethernet: 10/100/1000 Mbps Auto-Negotiation
  Gigabit Copper: 10/100/1000 Mbps, Auto-Negotiation
  Gigabit Fiber: UP to 1000 Mbps

Interface

- **Connectors** 16 x RJ45
  2 x SFP ports
  6-pin removable screw terminal (power & relay)
- **LED Indicators** P1, P2, P-Fail, Loop detection
  10/100/1000T(X): Link/Activity, Speed
  SFP: Link/Activity

Switch Properties

- **MAC Table Size** 8K
- **Packet Buffer Size** 4.1M bit
- **Switching Capacity** 36 Gbps
- **Jumbo Frame** 9216 bytes

Power

- **Power Consumption** Max. 9.6W
- **Power Input** 12~48 V_{DC} (8.4~52.8 V_{DC}), redundant dual inputs
- **Fault Output** 1 Relay Output

Mechanism

- **Dimensions (W x H x D)** 74 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

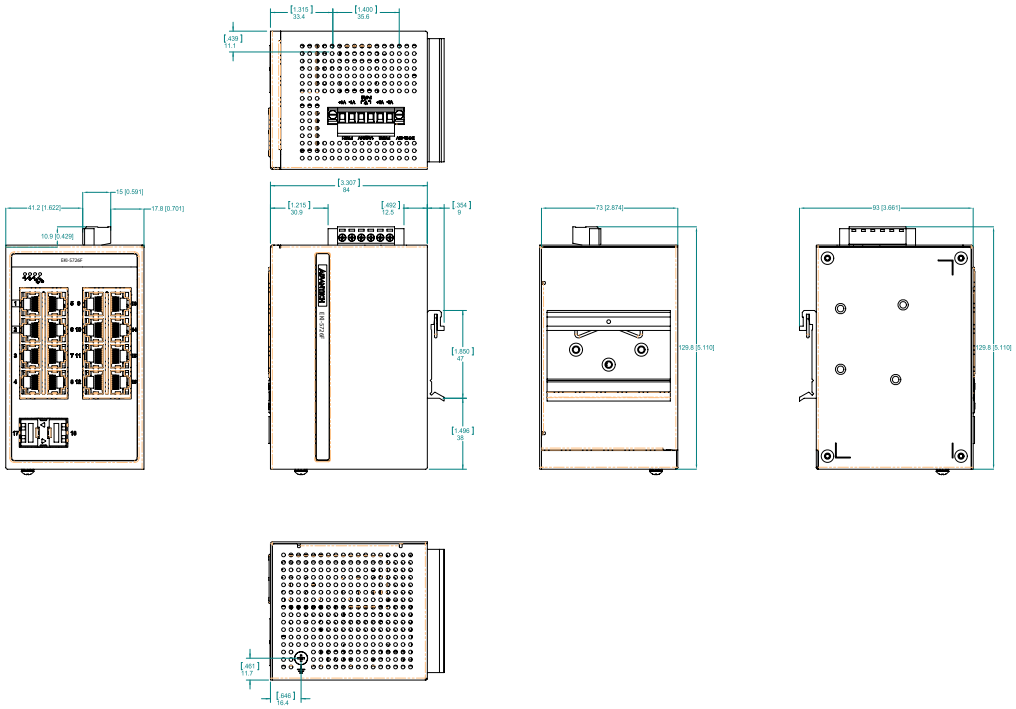
- **Operating Temperature** EKI-5726F: -10~60°C (14~140°F)
  EKI-5726FI: -40~75°C (-40~167°F)
- **Storage Temperature** -40 ~ 85°C (-40 ~ 185°F)
- **Operating Humidity** 10 ~ 95% (non-condensing)
- **Storage Humidity** 10 ~ 95% (non-condensing)
- **MTBF** 1,962,789 hours

Certification

- **Safety** IEC/EN 60950-1, UL508, Class 1 Division 2, ATEX, IECEx
- **EMC** CE, FCC
- **EMI** EN 55011/55022 Class A, EN 61000-6-4, FCC Part 15 Subpart B Class A
- **EMS** EN 61000-4-2 (Level 3)
  EN 61000-4-3 (Level 3)
  EN 61000-4-4 (Level 3)
  EN 61000-4-5 (Level 3)
  EN 61000-4-6 (Level 3)
  EN 61000-4-8 (Level 3)
- **Shock** IEC 60068-2-27
- **Freefall** IEC 60068-2-32
- **Vibration** IEC 60068-2-6

Mounting Dimensions

Unit: mm [inch]



Ordering Information

- **EKI-5726F** 16-port+2 SFP Gigabit Ethernet ProView Switch
- **EKI-5726FI** 16-port+2 SFP Gigabit Ethernet ProView Switch with Wide Operating Temperature Range

EKI-5729F/FI

8-Port+2 SFP Gigabit 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-5729FI only)
- 12 ~ 48 V_{DC} (8.4 to 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 ~ 48 V_{DC} power input and P-Fail relay
- Loop detection

Introduction

The EKI-5729F/FI 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 the 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-5729F/FI 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
LAN	10/100/1000Base-T(X), Optional 100Base-FX, 1000Base-SX/LX/LHX/XD/ZX/EZX
Transmission Distance	Ethernet: UP to 100 m (4-wire Cat.5e, Cat.6 RJ-45 cable suggested for Gigabit port) SFP: UP to 110 km (depends on SFP)
Transmission Speed	Ethernet: 10/100/1000 Mbps Auto-Negotiation Gigabit Copper: 10/100/1000 Mbps, Auto-Negotiation Gigabit Fiber: UP to 1000 Mbps

Interface

Connectors	8 x RJ45 2 x SFP ports 6-pin removable screw terminal (power & relay)
LED Indicators	P1, P2, P-Fail, Loop detection 10/100/1000T(X): Link/Activity, Speed SFP: Link/Activity

Switch Properties

MAC Table Size	8K
Packet Buffer Size	4.1M bit
Switching Capacity	20 Gbps
Jumbo Frame	9216 bytes

Power

Power Consumption	Max. 6.8 W
Power Input	12~48 V_{DC} (8.4~52.8 V_{DC}), redundant dual inputs
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-5729F: -10~60°C (14~140°F) EKI-5729FI: -40~75°C (-40~167°F)
Storage Temperature	-40 ~ 85°C (-40 ~ 185°F)
Operating Humidity	10 ~ 95% (non-condensing)
Storage Humidity	10 ~ 95% (non-condensing)
MTBF	3,858,286 hours

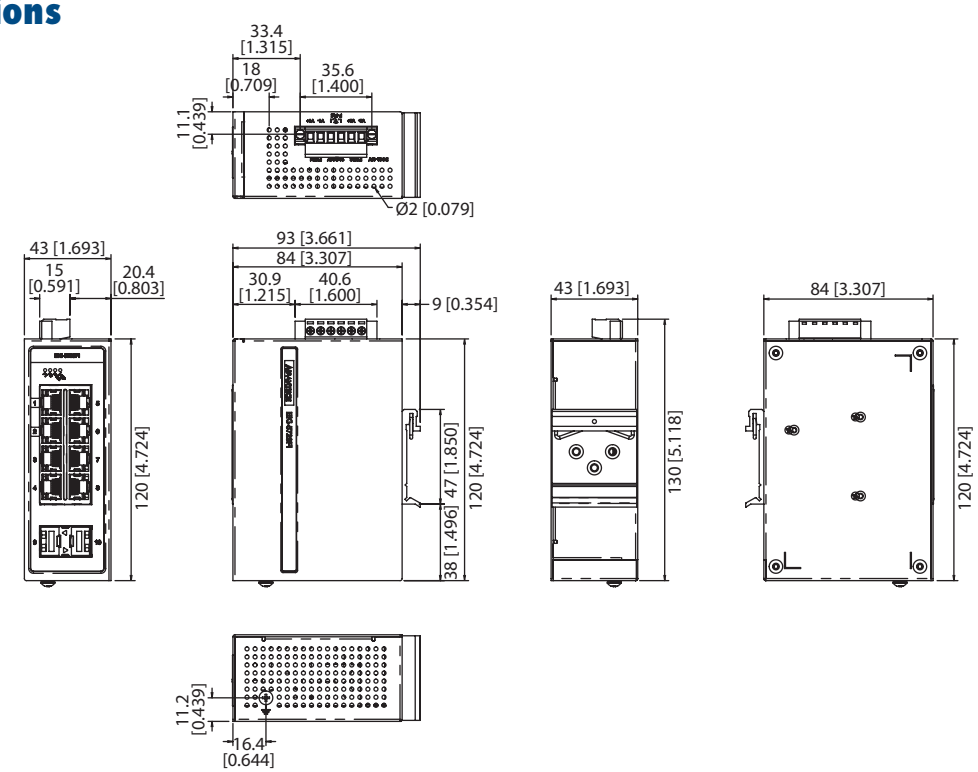
Certification

Safety	IEC/EN60950, UL60950, UL508, Class 1 Division 2, ATEX
EMI	FCC Part 15 Subpart B Class A, EN 55011/55022 Class A
EMS	EN 61000-4-2 (Level 3) EN 61000-4-3 (Level 3) EN 61000-4-4 (Level 3) EN 61000-4-5 (Level 3) EN 61000-4-6 (Level 3) EN 61000-4-8 (Level 3)
Shock	IEC 60068-2-27
Freefall	IEC 60068-2-32
Vibration	IEC 60068-2-6

Last updated : 5-May-2015

Dimensions

Unit: mm [inch]



Ordering Information

- **EKI-5729F** 8-port+2 SFP Gigabit Ethernet ProView Switch
- **EKI-5729FI** 8-port+2 SFP Gigabit Ethernet ProView Switch with Wide Operating Temperature Range