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

All product specifications are subject to change without notice
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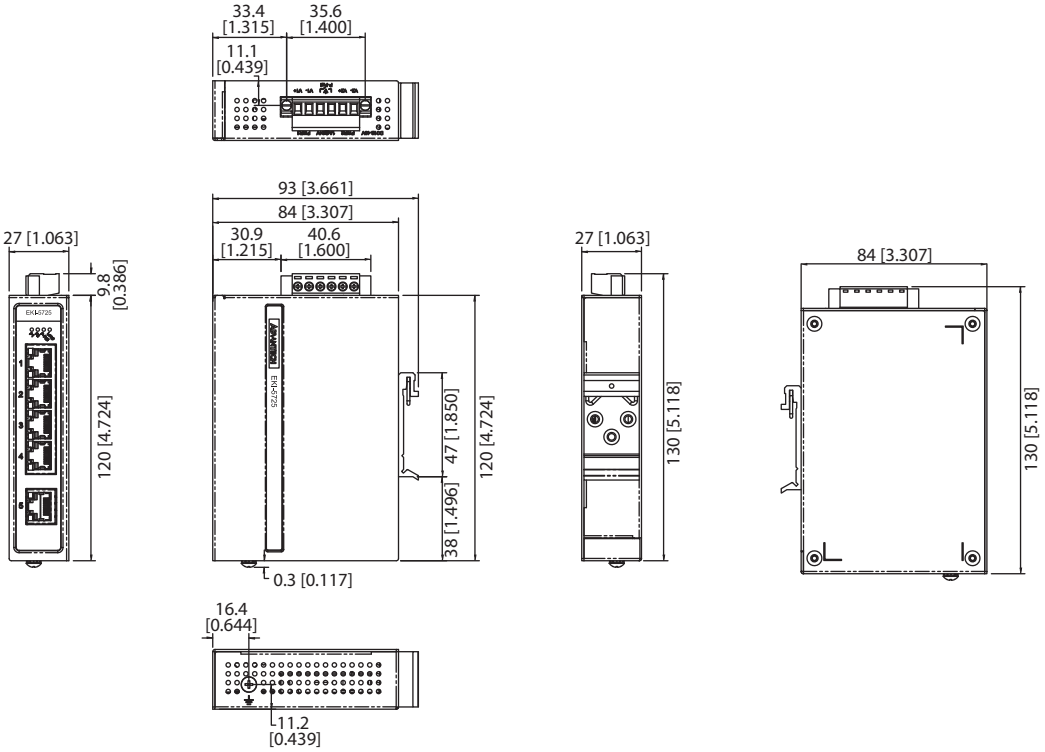
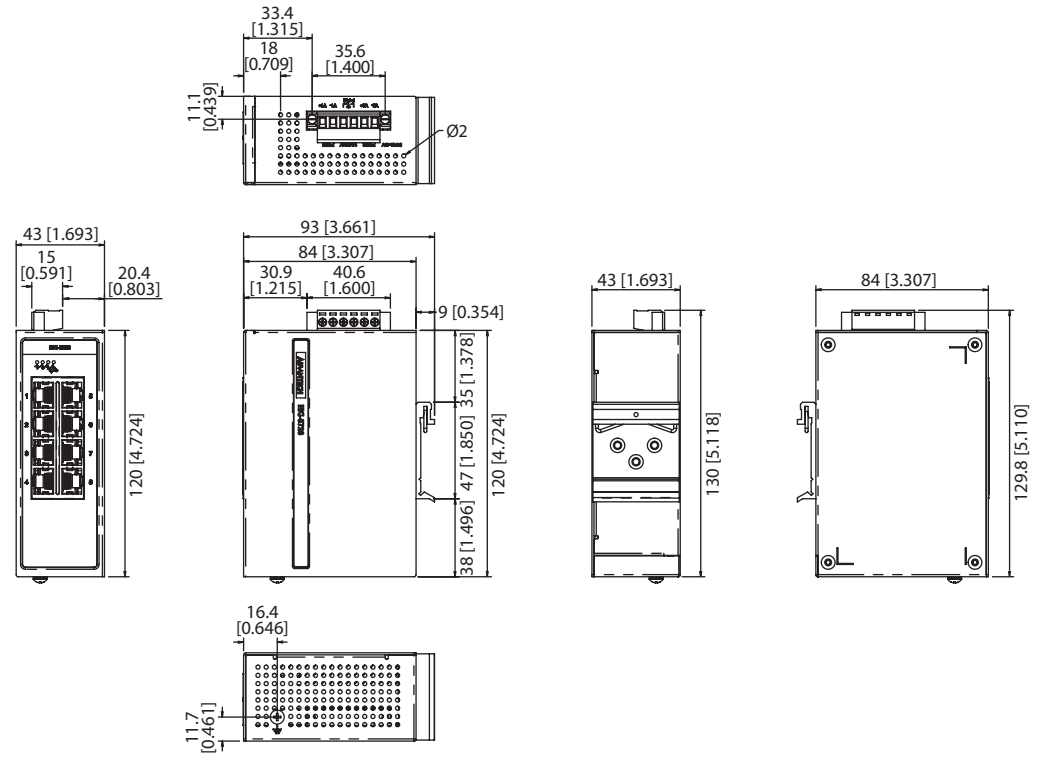
Dimensions

Unit: mm [inch]

EKI-5725/I



EKI-5728/I