EKI-5629C/CI

8FE + 2GE Combo Ethernet ProView Switch

EKI-5626C/CI

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

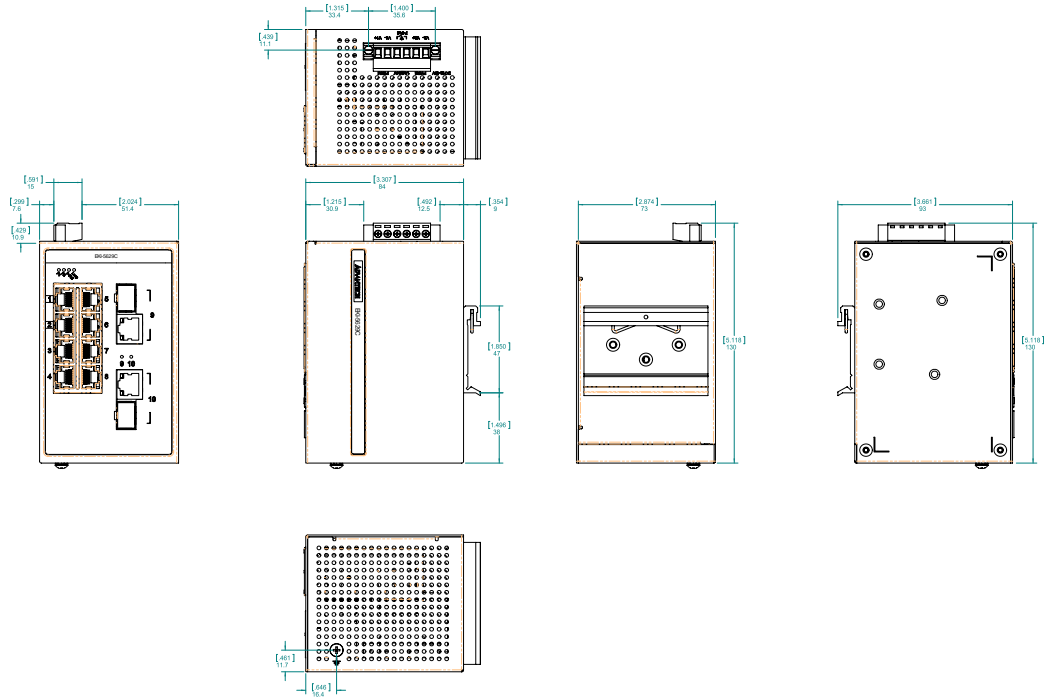### Certification

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

EKI-5629C/CI Mounting Dimensions

Unit: mm [inch]

EKI-5626C/CI Mounting Dimensions