

# EKI-5629CI

# EKI-5626CI

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
- EMS level 3 protection for extreme outdoor environments
- 12 ~ 48 V<sub>DC</sub> (8.4 ~ 52.8 V<sub>DC</sub>) wide-range power input
- IEEE 802.3az Energy Efficient Ethernet (EEE)
- Jumbo Frame Support (Up to 9,216 Bytes)
- Supports redundant 12 ~ 48 V<sub>DC</sub> power input and P-Fail relay
- Loop detection

## Introduction

The EKI-5629CI and EKI-5626CI 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-5629CI and EKI-5626CI 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 100m (4-wire Cat.5e, Cat.6 RJ-45 cable suggested for Gigabit port)
- **Transmission Speed** SFP: UP to 110km (depends on SFP)  
Ethernet: 10/100Mbps Auto-Negotiation  
Gigabit Copper: 10/100/1000Mbps, Auto-Negotiation  
Gigabit Fiber: UP to 1000Mbps

### Interface

- **Connectors** EKI-5629CI: 8 x Fast Ethernet (RJ45) + 2 x Giga (RJ45/SFP) combo ports  
EKI-5626CI: 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-5629CI: 5.6 Gbps  
EKI-5626CI: 7.2 Gbps
- **Jumbo Frame** 9216 bytes

### Power

- **Power Consumption** EKI-5629CI: 5.8W  
EKI-5626CI: 8.2W
- **Power Input** 12 ~ 48 V<sub>DC</sub> (8.4 ~ 52.8 V<sub>DC</sub>), 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** -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-5629CI: 3,183,604 hours  
EKI-5626CI: 2,825,281 hours

### Certification

- **Safety** UL508, Class 1 Division 2, ATEX
- **EMI** CE/FCC
- **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-5629CI-AE** 8FE + 2GE Combo Ethernet ProView Switch with Wide Temperature
- **EKI-5626CI-AE** 16FE + 2GE Combo Ethernet ProView Switch with Wide Temperature

