

# EKI-7626C

# EKI-7629C

## 16+2G Combo Port Gigabit Unmanaged Industrial Ethernet Switch

## 8+2G Combo Port Gigabit Unmanaged Industrial Ethernet Switch



### Features

- Provides 2 Gigabit Copper/SFP combo port plus 16 Fast Ethernet ports (EKI-7626C)
- Provides 2 Gigabit Copper/SFP combo port plus 8 Fast Ethernet ports (EKI-7629C)
- SFP socket for Easy and Flexible Fiber Expansion
- Supports Auto Negotiation and Auto MDI/MDI-X
- Supports 4,000 V<sub>DC</sub> Ethernet ESD protection
- Supports 3,000 V<sub>DC</sub> surge (EFT) protection for power line
- Provides flexible mounting: DIN-rail, Wall Mounting
- Supports Dual 12 ~ 48 V<sub>DC</sub> power input and 1 Relay Output

### Introduction

Aside from 2 Gigabit fiber optic/copper combo ports, the EKI-7626C comes equipped with 16 x 10/100Base-TX fast Ethernet ports and the EKI-7629C comes equipped with 8 x 10/100Base-TX fast Ethernet ports. Traditional RJ-45 ports can be used for uplinking wide-band paths in short distance (< 100 m), or the appropriate replaceable SFP module can be used for the application of wideband uplinking and long distance transmissions to fit the field request flexibly. Also, the long MTBF (Mean Time Between Failures) ensures that the EKI-7626C/7629C will continue to operate until a Gigabit network infrastructure has been established, without requiring any extra upgrade costs. EKI-7626C/7629C includes a switch controller that can automatically sense transmission speeds (10/100 Mbps) The RJ-45 interface can also be auto-detected, so MDI or MDI-X is automatically selected and a cross-over cable is not required. All Ethernet ports have memory buffers that support the store-and-forward mechanism, which assures that data can be transmitted properly. Furthermore, the power line of EKI-7626C/7629C supports up to 3,000 V<sub>DC</sub> surge (EFT) protection, which secure equipment against unregulated voltage and make systems safer and more reliable.

### Specifications

#### Communications

- **Standard** IEEE 802.3, 802.3ab, 802.3u, 802.3x, 802.3z
- **LAN** 10/100/1000Base-TX, 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)  
Gigabit Fiber: Up to 110 km (depending on SFP)
- **Transmission Speed** Ethernet: 10/100Mbps Auto-Negotiation  
Gigabit Copper: 10/100/1000Mbps, Auto-Negotiation  
SFP: Up to 1000Mbps

#### Interface

- **Connectors** 16 x RJ-45 (Ethernet) with 2 x RJ-45/SFP (mini-GBIC) combo ports (EKI-7626C)  
8 x RJ-45 (Ethernet) with 2 x RJ-45/SFP (mini-GBIC) combo ports (EKI-7629C)  
6-pin removable screw terminal (Power & Relay)
- **LED Indicators** System: PWR1, PWR2, P-Fail  
Gigabit Copper: Link/Activity, Speed (1000Mbps)  
Gigabit SFP: Link/Activity

#### Power

- **Power Consumption** Max. 6.5W
- **Power Input** 2 x Unregulated 12 ~ 48 V<sub>DC</sub>
- **Fault Output** 1 Relay Output

#### Mechanism

- **Dimensions (W x H x D)** 79 x 152 x 105 mm
- **Enclosure** IP30, Metal shell with solid mounting kits
- **Mounting** DIN-rail, Wall

#### Protection

- **ESD (Ethernet)** 4,000 V<sub>DC</sub>
- **Surge (EFT for power)** 3,000 V<sub>DC</sub>
- **Reverse Polarity** Present
- **Overload** EKI-7629C: 1.6 A @ 12 V<sub>DC</sub> (Re-settable Fuse)  
EKI-7626C: 3.5 A @ 12 V<sub>DC</sub> (Fuse)

#### Environment

- **Operating Temperature** -10 ~ 60° C (14 ~ 140° F)
- **Storage Temperature** -40 ~ 85° C (-40 ~ 185° F)
- **Operating Humidity** 5 ~ 95% (non-condensing)
- **Storage Humidity** 0 ~ 95% (non-condensing)
- **MTBF** 295,000 hrs

#### Certifications

- **Safety** UL 60950-1, CAN/CSA-C22.2 No.60950
- **EMC** U.S.A.: FCC Part 15 CISPR 22  
EU: EN55011, EN61000-6-4, EN55022 Class A, EN61000-3-2/3, EN55024, IEC61000-4-2/3/4/5/6/8, EN61000-6-2
- **Shock** IEC60068-2-27
- **Freefall** IEC60068-2-32
- **Vibration** IEC60068-2-6

### Ordering Information

- **EKI-7626C** 16+2G Combo Ports Industrial Unmanaged Gigabit Ethernet Switch
- **EKI-7629C** 8+2G Combo Ports Industrial Unmanaged Gigabit Ethernet Switch