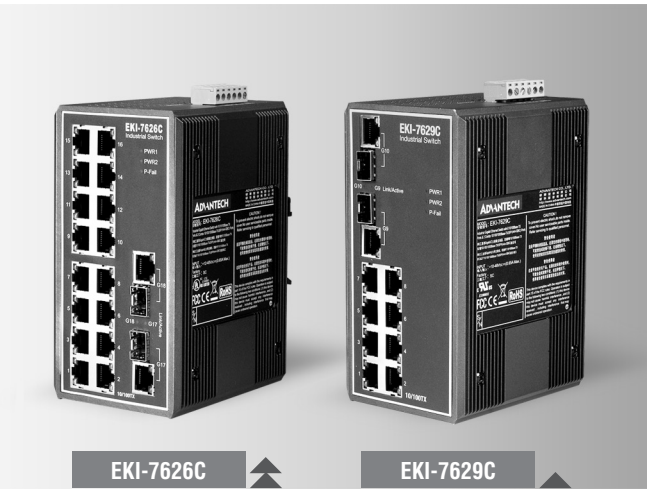
EKI-7626C/CI
EKI-7629C/CI

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/CI)
- Provides 2 Gigabit Copper/SFP combo port plus 8 Fast Ethernet ports (EKI-7629C/CI)
- SFP socket for Easy and Flexible Fiber Expansion
- Supports Auto Negotiation and Auto MDI/MDI-X
- Supports 4,000 V_{DC} Ethernet ESD protection
- Supports 3,000 V_{DC} surge (EFT) protection for power line
- Provides flexible mounting: DIN-rail, Wall Mounting
- Supports Dual 12 ~ 48 V_{DC} power input and 1 relay output
- Supports wide operating temperatures from -40 ~ 75° C (EKI-7626CI/EKI-7629CI)

Introduction

Aside from 2 Gigabit fiber optic/copper combo ports, the EKI-7626C/CI comes equipped with 16 x 10/100Base-T(X) fast Ethernet ports and the EKI-7629C/CI 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 uploading and long distance transmissions to fit the field request flexibly. Also, the long MTBF (Mean Time Between Failures) ensures that the EKI-7626C/CI & EKI-7629C/CI will continue to operate until a Gigabit network infrastructure has been established, without requiring any extra upgrade costs. EKI-7626C/CI & EKI-7629C/CI includes a switch controller that can automatically sense transmission speeds (10/100Mbps) 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/CI & EKI-7629C/CI supports up to 3,000 V_{DC} 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** 100Base-TX, 10/1000Base-T, 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/CI)
  8 x RJ-45 (Ethernet) with 2 x RJ-45/SFP (mini-GBIC) combo ports (EKI-7629C/CI)
  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** 12 ~ 48 V_{DC}, redundant dual inputs
- **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_{DC}
- **Surge (EFT for power)** 3,000 V_{DC}
- **Reverse Polarity** Present
- **Overload** EKI-7629C/CI: 1.6 A @ 12 V_{DC} (Re-settable Fuse)
  EKI-7626C/CI: 3.5 A @ 12 V_{DC} (Fuse)

Environment

- **Operating Temperature** -10 ~ 60° C (14 ~ 140° F)
  Wide Temp. Model -40 ~ 75° C (-40 ~ 167° 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 Gigabit Unmanaged Ethernet Switch
- **EKI-7626CI** 16+2G Giga Unmanaged Ethernet Switch w/ Wide Temp
- **EKI-7629C** 8+2G Gigabit Unmanaged Ethernet Switch
- **EKI-7629CI** 8+2G Giga Unmanaged Ethernet Switch w/ Wide Temp