EKI-7716E-4F4C EKI-7716E-4F4CI

8FE+4SFP+4G Combo Port Managed Redundant Industrial Switch



Features

- 8 x fast Ethernet + 4 x Gigabit SFP + 4 x Gigabit Copper/SFP combo ports
- SFP socket for easy and flexible fiber expansion
- Redundancy: X-Ring Pro (ultra-high-speed recovery time, <20 ms), RSTP/ STP, and MSTP (802.1w/1D/1s)
- IXM function enables fast deployment
- Security: 802.1x (port-based, MD5/TLS/TTLS/PEAP encryption), RADIUS
- Management: SNMP v1/v2c/v3, WEB, Telnet, standard MIB, private MIB
- NEMA TS2 for traffic control

Network Management

- EN50121-4 approval for railway trackside deployment
- Wide operating temperature range of -40 ~ 75°C (EKI-7716E-4F4CI)
- Dual 12 ~ 48 V_{DC} power input and 1 x relay output

Introduction

The EKI-7716E-4F4C and EKI-7716E-4F4CI offer 8 fast Ethernet, 4 Gigabit SFP (mini-GBIC), and 4 Gigabit combo ports. These switches provide abundant port options for connecting to various device types. They are also embedded with Advantech IXM function for fast deployment, which can dramatically save on engineering time and costs. The EKI-7716E series also support NMS to help IT managers with networking maintenance and failure prevention. Finally, they are equipped with X-Ring Pro redundancy for ultra-high-speed recovery times of <20 ms. The EKI-7716E-4F4CI also features a wide operating temperature range of -40 to 75°C and a NEMA TS2 rating, making it ideal for use in traffic applications. These switches also meet the EN50121-4 European railway standard for emissions and EMI immunity for railway platforms and trackside deployment.

Specifications

Communications

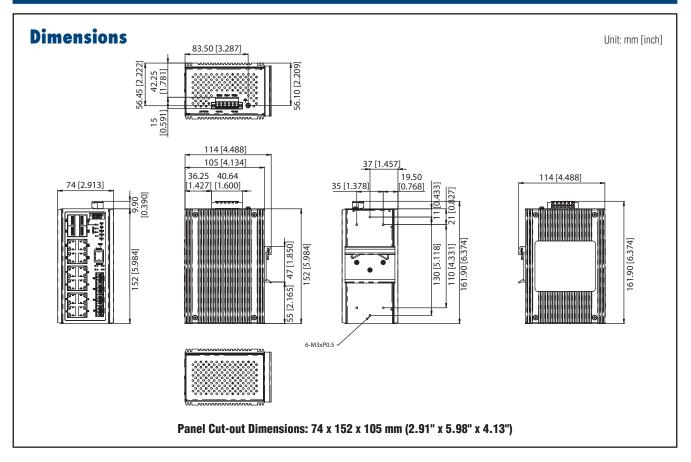
 Standard 	IEEE 802.3, 802.3u, 802.3x, 802.3ad, 802.3ab, 802.3z, 802.1D, 802.1w, 802.1s, 802.1P, 802.1Q, 802.1X	 Configuration 	Web browser, Telnet, Serial console, TFTP, SNMPv1/ v2c/v3, Port Speed/Duplex Configuration, IPv6
- LAN	10/100BASE-TX, 10/100/1000BASE-TX, optional	VLAN	IEEE 802.1Q, GVRP, Port-based VLAN
	100BASE-FX, 1000BASE-SX/LX/LHX/XD/ZX/EZX	 Redundancy 	Advantech X-Ring, 802.1w/1D/1s RSTP/STP/MSTP
 Transmission Distance 	Ethernet: Up to 100 m (4- wire Cat.5e, Cat.6 RJ45 cable suggested for both Fast Ethernet/Gigabit port) SFP: Up to 110 km (depends on SFP)	 Security 	IP Security, SSH, SSL, SNMPV3, HTTPS, IP Source Guard, DHCP Snooping, ARP Spoofing Prevention, 802.1X, TACACS+, Access Control List
 Transmission Speed 	Fast Ethernet: 10/100 Mbps Gigabit Copper: 10/100/1000 Mbps, Auto-Negotiation Gigabit Fiber: Up to 1000 Mbps	 Traffic Control 	IGMP Snooping/Query for Multicast Group Management, Port Trunking, Static/802.3ad, LACP Rate Limit and Storm Control, IEEE 802.1p QoS CoS/TOS/ DSCP Priority Queuing, IEEE 802.3x Flow Control
Interface		 Diagnostics 	Port Mirroring, Real-Time Traffic Statistic, MAC
 Connectors 	8 x RJ45 (Fast Ethernet) 4 x SFP (mini-GBIC) 4 x RJ45/SFP (mini-GBIC) combo ports		Address Table, SNTP, Syslog, E-Mail Alert, SNMP Trap, RMON
	6-pin screw terminal block connector	Mechanism	
	(4-pin for Power, 2-pin for Relay)	 Enclosure 	IP30, metal shell with solid mounting kits
LED Indicators	PWR1, PWR2, SYS, Alarm and R.M.	 Dimensions (W x H x D) 	74 x 152 x 105 mm (2.91" x 5.98" x 4.13")
	10/100T (X): Link/Activity, Gigabit Copper: Link/Activity, Speed (1000 Mbps)	 Mounting 	DIN-rail, Wall mount
	SFP: Link/Activity	Power	
 Console 	RS-232 (RJ45)	 Power Consumption 	15W @ 48V (Full Load)
		 Power Input 	$12-48 V_{DC}$, Redundant Dual Power Input
		 Fault Output 	1 Relay Output

Protection

Power Reverse	Present
Overload Current	Present

Last updated: 27-Jun-2018

EKI-7716E-4F4C/4F4CI



Environment

- Operating Temperature -10~60°C (14~140°F) (EKI-7716E-4F4C)
 - -40~75°C (-40~167°F) (EKI-7716E-4F4CI)
- Storage Temperature -40 ~ 85°C (-40 ~ 185°F)
- Operating Humidity 10 ~ 95% (non-condensing)

UL 61010

CE, FCC Class A

EN 61000-4-2 EN 61000-4-3 EN 61000-4-4 EN 61000-4-5 EN 61000-4-6 EN 61000-4-8 EN 50121-4 NEMA TS2

IEC 60068-2-27

IEC 60068-2-32

 Storage Humidity 10~95% (non-condensing)

Certification

- Safety
- EMI
- EMS
- Shock
- Freefall
- IEC 60068-2-6 Vibration EN 50121-4
- Railway Track Side
- Patent http://www.advantech.com/legal/patent

Ordering Information

- EKI-7716E-4F4C-AE
- EKI-7716E-4F4CI-AE
- 8FE+4SFP+4G Combo port Managed Industrial Switch 8FE+4SFP+4G Combo port Managed Industrial Switch w/Wide Temp.