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-4F4Cl 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-4F4Cl 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

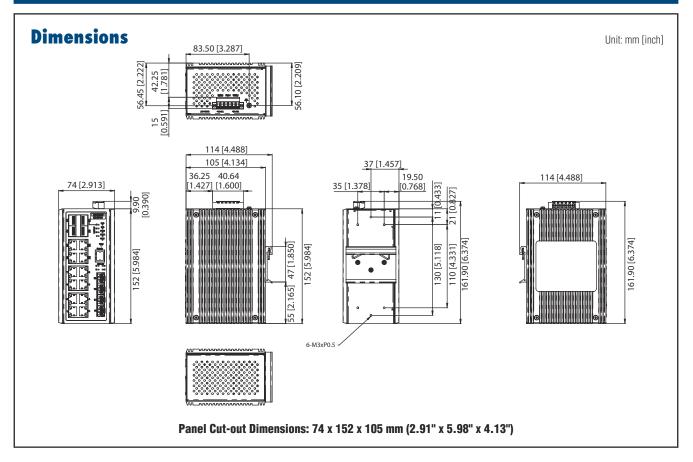
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 Standard 	IEEE 802.3, 802.3u, 802.3x, 802.3ad, 802.3ab, 802.3z, 802.1D, 802.1w, 802.1s, 802.1P, 802.1Q, 802.1X	 Configuration 	Web browser, Telnet, Serial console, TFTP, SNMPv1/ v2c/v3, Port Speed/Duplex Configuration, IPv6
- LAN	10/100BASE-TX, 10/100/1000BASE-TX, optional 100BASE-FX, 1000BASE-SX/LX/LHX/XD/ZX/EZX	VLANRedundancy	IEEE 802.1Q, GVRP, Port-based VLAN 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 Connectors	8 x RJ45 (Fast Ethernet) 4 x SFP (mini-GBIC) 4 x RJ45/SFP (mini-GBIC) combo ports	 Diagnostics 	Port Mirroring, Real-Time Traffic Statistic, MAC Address Table, SNTP, Syslog, E-Mail Alert, SNMP Trap, RMON
	6-pin screw terminal block connector	Mechanism	
 LED Indicators 	(4-pin for Power, 2-pin for Relay) PWR1, PWR2, SYS, Alarm and R.M.	 Enclosure Dimensions (W x H x D) 	IP30, metal shell with solid mounting kits) 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
0	SFP: Link/Activity	Power	
 Console 	RS-232 (RJ45)	 Power Consumption Power Input Fault Output 	15W @ 48V (Full Load) 12-48 V _{DC} , Redundant Dual Power Input 1 Relay Output
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Protection

Power Reverse	Present
Overload Current	Present

All product specifications are subject to change without notice.

EKI-7716E-4F4C/4F4CI



Environment

Operating Temperature -10~60°C (14~140°F) (EKI-7716E-4F4C)

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

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