

EKI-7716G-4F4C

EKI-7716G-4F4CI

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



Features

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

Introduction

The EKI-7716G-4F4C and EKI-7716G-4F4CI support 8 Gigabit Ethernet, 4 Gigabit SFP (mini-GBIC), and 4 Gigabit combo ports. They provide abundant port options for connecting to various device types. The series are embedded with Advantech IXM function for fast deployment, which can dramatically save on engineering time and costs. These switches 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-7716G-4F4CI in particular also features a wide operating temperature of -40 to 75°C and a NEMA TS2 rating, making it ideal for use in traffic applications. The EKI-7716G series also meets 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
- **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 RJ45 cable suggested for both Fast Ethernet/Gigabit port)
SFP: Up to 110 km (depends on SFP)
- **Transmission Speed** Gigabit Ethernet: 10/100/1000 Mbps
Gigabit Copper: 10/100/1000 Mbps, Auto-Negotiation
Gigabit Fiber: Up to 1000 Mbps

Interface

- **Connectors** 8 x RJ45 (Gigabit Ethernet)
4 x SFP (mini-GBIC)
4 x RJ45/SFP (mini-GBIC) combo ports
6-pin screw terminal block connector (4-pin for Power, 2-pin for Relay)
- **LED Indicators** PWR1, PWR2, SYS, Alarm and R.M.
10/100/1000T (X): Link/Activity,
Gigabit Copper: Link/Activity, Speed (1000 Mbps)
SFP: Link/Activity
- **Console** RS-232 (RJ45)

Network Management

- **Configuration** Web browser, Telnet, Serial console, TFTP, SNMPv1/v2c/v3, Port Speed/Duplex Configuration, IPv6
- **VLAN** IEEE 802.1Q, GVRP, Port-based VLAN
- **Redundancy** Advantech X-Ring, 802.1w/1D/1s RSTP/STP/MSTP
- **Security** IP Security, SSH, SSL, SNMPv3, HTTPS, IP Source Guard, DHCP Snooping, ARP Spoofing Prevention, 802.1X, TACACS+, Access Control List
- **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
- **Diagnostics** Port Mirroring, Real-Time Traffic Statistic, MAC Address Table, SNMP, Syslog, E-Mail Alert, SNMP Trap, RMON

Mechanism

- **Enclosure** IP30, metal shell with solid mounting kits
- **Dimensions (W x H x D)** 74 x 152 x 105 mm (2.91" x 5.98" x 4.13")
- **Mounting** DIN-rail, Wall mount

Power

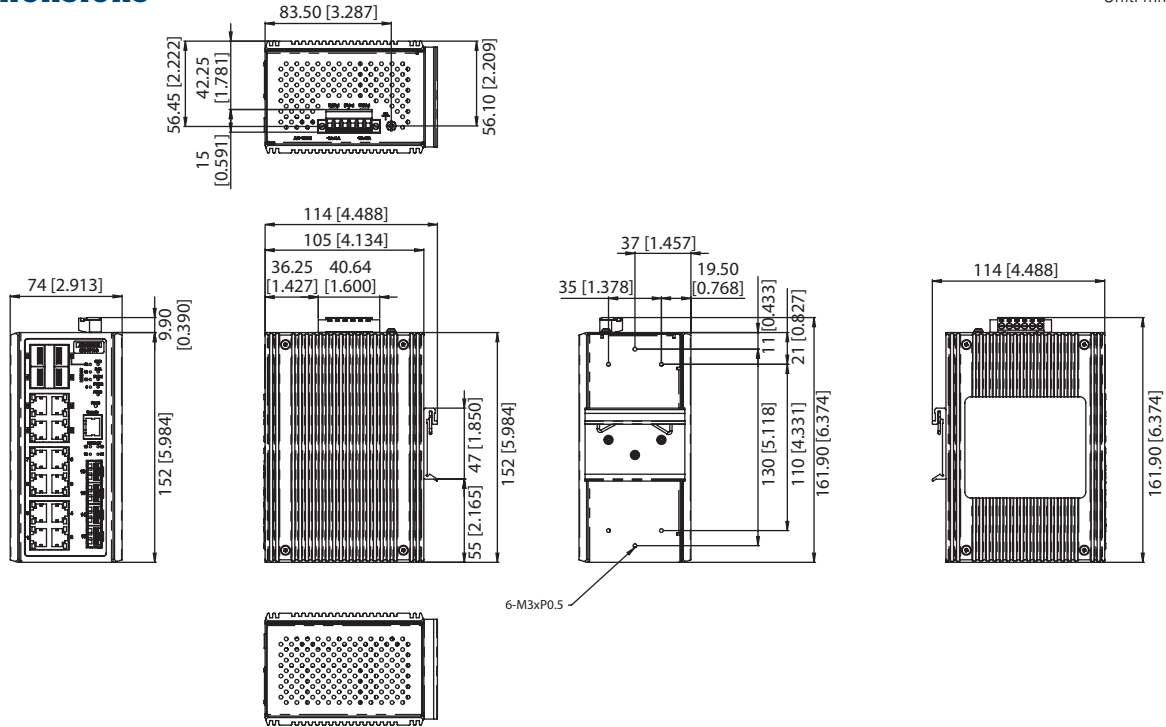
- **Power Consumption** 15W @ 48V (Full Load)
- **Power Input** 12-48 V_{DC}, Redundant Dual Power Input
- **Fault Output** 1 Relay Output

Protection

- **Power Reverse** Present
- **Overload Current** Present

Dimensions

Unit: mm [inch]



Panel Cut-out Dimensions: 74 x 152 x 105 mm (2.91" x 5.98" x 4.13")

Environment

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

Certification

- Safety UL 61010
- EMI CE, FCC Class A
- EMS 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
- Shock IEC 60068-2-27
- Freefall IEC 60068-2-32
- Vibration IEC 60068-2-6
- Railway Track Side EN 50121-4
- Patent <http://www.advantech.com/legal/patent>

Ordering Information

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



**ТЕРРИТОРИЯ
АВТОМАТИЗАЦИИ**

t-automation.by

T: +375 17 356 0990

Ф: +375 17 356 0995

E: info@t-automation.by

ВУ, Минск 220056, ул. Стариновская 31, пом. 1Н

Оборудование и ПО для АСУТП,
встраиваемых систем, IoT,
систем визуализации,
энергоучета

