# EKI-7708G-2FV EKI-7712G-2FV

## 4GE + 2G SFP + 2 VDSL2 Port Managed **Redundant Industrial Switch**

8GE + 2G SFP + 2 VDSL2 Port Managed **Redundant Industrial Switch** 



## **Features**

- 4 x Gigabit + 2 x Gigabit SFP + 2 VDSL2 ports (EKI-7708G-2FV)
- 8 x Gigabit + 2 x Gigabit SFP + 2 VDSL2 ports (EKI-7712G-2FV)
- 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/TLS/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
- 100/100 Mbps up to 400 m over CAT 5e
- Dual 12 ~ 48 V<sub>DC</sub> power input + 1 x relay output

## Introduction

The EKI-7712G-2FV and EKI-7708G-2FV provide 8/4 Gigabit ports, 2 Gigabit SFP ports, and 2 VDSL2 ports. These switches provide abundant port options, thus providing support for connecting a range of different devices. They also come embedded with Advantech IXM function for fast deployment, thus have a marked impact in saving on engineering time and costs. This series also support NMS to help IT managers with networking maintenance and failure prevention. Finally, they are equipped with X-Ring Pro redundancy for ultrahigh-speed recovery times of <20 ms. These switches also incorporate the latest VDSL2 technology and can be easily adapted to existing applications with existing 2-wire cable (e.g., phone line systems), thus avoiding unnecessary costs associated with rewiring. It can substantially extend Ethernet service on UTP wire with distances up to 3000 m, and even with a rate of 100Mbps for up to 400 m on standard CAT-5e2 cable.

# **Specifications**

#### **Communications**

<ul> <li>Standard</li> </ul>	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	<ul> <li>Configuration</li> </ul>
• LAN	10/100/1000BASE-TX, optional 100BASE-FX, 1000BASE-SX/LX/LHX/XD/ZX/EZX	<ul><li>VLAN</li><li>Redundancy</li></ul>
<ul> <li>Transmission Distance</li> </ul>	cable suggested for Gigabit port)	<ul> <li>Security</li> </ul>
	SFP: Up to 110 km (depends on SFP) VDSL2: With the rate of 100Mbps speed up to 400 m on a standard CAT 5e2 wire cable	<ul> <li>Traffic Control</li> </ul>
<ul> <li>Transmission Speed</li> </ul>	Gigabit copper: 10/100/1000 Mbps, auto negotiation Gigabit fiber: Up to 1000 Mbps	<ul> <li>Diagnostics</li> </ul>
nterface		
Connectors	4/8 x RJ45 (Gigabit Ethernet) 2 x SFP (mini-GBIC) 2 x VDSL ports 6-pin screw terminal block connector 4-pin for power, 2-pin for relay	<b>Mechanism</b> • Enclosure • Dimensions (W x H x • Mounting
<ul> <li>LED Indicators</li> </ul>	PWR1, PWR2, SYS, Alarm, and R.M. Gigabit copper: Link / Activity / Speed (1000 Mbps) SFP: Link / Activity	Power • Power Consumption
Console	RS-232 (RJ45)	<ul> <li>Power Input</li> <li>Fault Output</li> </ul>

#### **Network Management**

nfiguration	Web browser, Telnet, serial console, TFTP, SNMPv1/ v2c/v3, port speed/duplex configuration, IPv6	
AN	IEEE 802.1Q, GVRP, port-based VLAN	
dundancy	Advantech X-Ring, 802.1w/1D/1s RSTP, STP, MSTP	
curity	IP access security, port security, DHCP client, port and IP binding, 802.1X port access control	
affic 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	
agnostics	Port mirroring, real-time traffic statistic, MAC address table, SNTP, syslog, e-mail alert, SNMP trap, RMON	
hanism		
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- IP30, metal shell with solid mounting kit
- D) 74 x 152 x 105 mm (2.91" x 5.98" x 4.13")
  - DIN rail, wall mount
- 15 W @ 48 V<sub>DC</sub> (system)
  - $12 \sim 48 V_{\text{DC}}$
  - 1 x relay output αυτι συτρ

### Protection

- Power Reverse Present Overload Current
  - Present

## EKI-7708G/7712G-2FV



#### Environment

- Operating Temperature -20 ~ 70°C (-4 ~ 158°F)
- Storage Temperature -40 ~ 85°C (-40 ~ 185°F)
- Operating Humidity 10 ~ 95% (non-condensing)
- Storage Humidity
  - 10 ~ 95% (non-condensing)

#### Certification

- Safety UL 61010 CE, FCC Class A
- = EMI
- 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
NEMA TS2
IEC 60068-2-27
IEC 60068-2-32
IEC 60068-2-6
EN 50121-4

- Shock
- . Freefall
- Vibration Railway Track Side
- Patent
- http://www.advantech.com/legal/patent

# **Ordering Information**

- EKI-7708G-2FV-AE

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