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/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
- 100/100 Mbps up to 400 m over CAT 5e
- Dual 12 ~ 48 V_{DC} 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 ultra-high-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

• **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 Gigabit port) 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

Transmission Speed Gigabit copper: 10/100/1000 Mbps, auto negotiation

Gigabit fiber: Up to 1000 Mbps

Interface

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

• **LED Indicators** PWR1, PWR2, SYS, Alarm, and R.M.

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 access security, port security, DHCP client, port and
 IP binding, 802.1X port access control

• **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 Port mirroring, real-time traffic statistic, MAC address

 Diagnostics
 Port mirroring, real-time traffic statistic, MAC address table, SNTP, syslog, e-mail alert, SNMP trap, RMON

Mechanism - Enclosure

Enclosure IP30, metal shell with solid mounting kit
 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

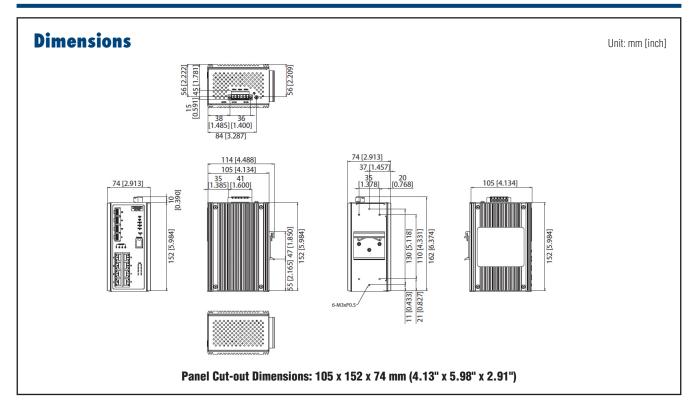
Power

Power Consumption 15 W @ 48 V_{DC} (system)

Power Input
 Fault Output
 12 ~ 48 V_{DC}
 1 x relay output

Protection

Power Reverse PresentOverload Current Present



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

Freefall

Vibration

Railway Track Side

Safety
 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
 NEMA TS2

 Shock

• Patent http://www.advantech.com/legal/patent

IEC 60068-2-32

IEC 60068-2-6

EN 50121-4

Ordering Information

• EKI-7708G-2FV-AE 4GE + 2G SFP + 2 VDSL2 port Managed Industrial Switch

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