EKI-7708G-2FVP EKI-7712G-2FVP

4GE PoE + 2G SFP + 2 VDSL2 Port **Managed Redundant Industrial Switch** 8GE PoE + 2G SFP + 2 VDSL2 Port **Managed Redundant Industrial Switch**



Features

- 4 x Gigabit PoE + 2 x Gigabit SFP + 2 x VDSL2 ports (EKI-7708G-2FVP)
- 8 x Gigabit PoE + 2 x Gigabit SFP + 2 x VDSL2 ports (EKI-7712G-2FVP)
- 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
- Provide 100/100 Mbps up to 400 m over CAT 5e
- Dual 48 V_{DC} (46 ~ 57 V_{DC}) power input and 1 x relay output

Introduction

The EKI-7712G and EKI-7708G-2FVP support 8/4 Gigabit PoE ports, 2 Gigabit SFP ports, and 2 VDSL2 ports. They offer abundant port options for connecting many different device types. The embedded Advantech IXM function facilitates fast deployment, which can dramatically save on engineering time and costs. The 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 switches also incorporate the latest VDSL2 technology, meaning that this SFP module can be easily adapted to existing applications with existing 2-wire cable (e.g., phone line), thus avoiding the cost of rewiring. Furthermore, they can drastically extend Ethernet service on UTP wire up to 3000 m, and even with a rate of 100 Mbps up to 400 m on a standard CAT 5e2 wire 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: 100 Mbps up to 400 m on standard CAT 5e2

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

Gigabit Fiber: Up to 1000 Mbps

Interface

4/8 x RJ45 (Gigabit Ethernet) Connectors

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 Configuration Web browser, Telnet, serial console,

TFTP, SNMPv1/v2c/v3, port speed/duplex

configuration, IPv6

IEEE 802.1Q, GVRP, port-based VLAN VLAN

Redundancy Advantech X-Ring, 802.1w/1D/1s RSTP, STP, MSTP IP access security, port security, DHCP client, port and Security

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 statistics, MAC address table, SNTP, syslog, e-mail alert, SNMP trap, RMON

Mechanism

IP30, metal shell with solid mounting kits Enclosure

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)

48 V_{DC} (46 ~ 57 V_{DC}), 53 ~ 57 V_{DC} is recommended for Power Input

802.3at, redundant dual power input

 Power Budget 120 W Fault Output 1 x relay output

Protection

 Power Reverse Present Overload Current Present

Environment

• Operating Temperature $-20 \sim 60^{\circ}\text{C} (-4 \sim 140\text{F})$ Storage Temperature -40 ~ 85°C (-40 ~ 185°F) Operating Humidity 10 ~ 95% (non-condensing) Storage Humidity 10 ~ 95% (non-condensing)

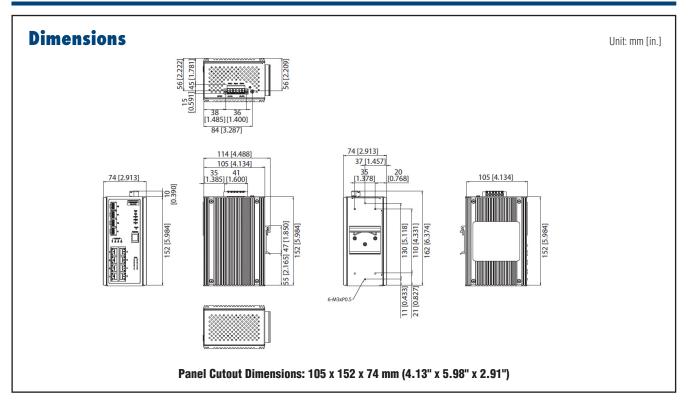
IP binding, 802.1X port access control

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IT and Instrumentation for industry



EKI-7708G/7712G-2FVP



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 61000-4-8
- 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-7708G-2FVP-AE 4GE PoE + 2G SFP + 2 VDSL2 Port Managed

Industrial Switch

* EKI-7712G-2FVP-AE

Industrial Switch

8GE POE + 2G SFP + 2 VDSL2 Port Managed
Industrial Switch

