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, 802.3a, 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

IUUUBASE-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

wire

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

Gigabit Fiber: Up to 1000 Mbps

Interface

Console

VLAN

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) PWR1, PWR2, SYS, Alarm, and R.M.

LED Indicators
PWR1, PWR2, SYS, Alarm, and R.M.
Gigabit copper: Link, activity, speed (1000 Mbps)

SFP: Link/activity 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

Redundancy
Security
Advantech X-Ring, 802.1w/1D/1s RSTP, STP, MSTP
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

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

Mechanism

Page 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** 15 W @ 48 V_{DC} (system)

Power Input $48 \text{ V}_{DC} (46 \sim 57 \text{ V}_{DC}), 53 \sim 57 \text{ V}_{DC}$ is recommended for

802.3at, redundant dual power input

Power Budget 120 W

• Fault Output 1 x relay output

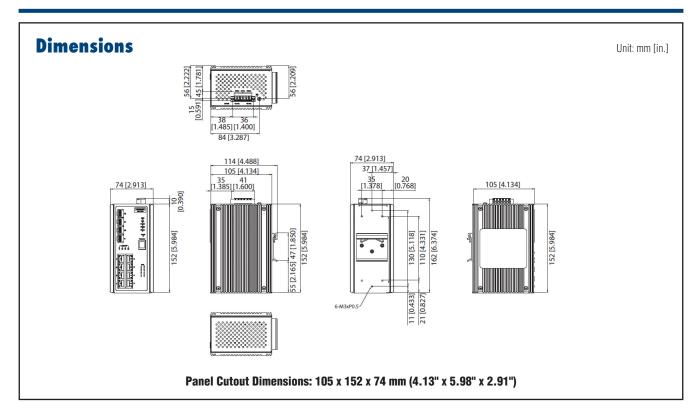
Protection

Power Reverse PresentOverload Current Present

Environment

Operating Temperature
Storage Temperature
Operating Humidity
Storage Humidity
Storage Humidity
Operating Humidit

AD\ANTECH



Certification

Railway Track Side

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 Shock IEC 60068-2-27 Freefall IEC 60068-2-32 Vibration IEC 60068-2-6

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

EN 50121-4

Ordering Information

EKI-7708G-2FVP-AE 4GE PoE + 2G SFP + 2 VDSL2 Port Managed Industrial Switch

EKI-7712G-2FVP-AE
8GE POE + 2G SFP + 2 VDSL2 Port Managed Industrial Switch