

EKI-7708G-2FV

EKI-7712G-2FV

4GE + 4 x Giga SFP (VDSL2 supported) + 2 VDSL2 transceiver Managed Redundant Switch

8GE + 4x Giga SFP (VDSL2 supported) + 2 VDSL2 transceiver Managed Redundant Switch



Features

- 4 x Gigabit + 4 x Gigabit SFP (VDSL2 * 3 supported) + 2 VDSL2 transceivers (EKI-7708G-2FV)
- 8 x Gigabit + 4 x Gigabit SFP (VDSL2 * 3 supported) + 2 VDSL2 transceivers (EKI-7712G-2FV)
- Redundancy: X-Ring Pro (ultra-high-speed recovery time of 20 Seconds with SFP-VDSL modules, RSTP/STP, and MSTP (802.1w/1D/1s))
- IXM function for fast deployment
- Security Pack with 802.1X, ACL, RADIUS, TACACS+, MAB Authentication, SNMPv3, HTTPS, SSH, and SFTP
- Management: SNMP v1/v2c/v3, WEB, Telnet, standard MIB, private MIB
- Supports NMS for easy and visualized to monitor and manage network remotely
- 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 and 4 SFP ports with SFP-VDSL transceivers. 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 seconds with SFP-VDSL modules. 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-5e with 2 cables.

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, 10/100/1000BASE-TX, optional 100BASE-FX, 1000BASE-SX/LX/LHX/XD/ZX/EZX
- LAN**
- 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 CAT5e with wire cables
Gigabit copper: 10/100/1000 Mbps, auto negotiation
Gigabit fiber: Up to 1000 Mbps
- Transmission Speed**

Interface

- Connectors** 4/8 x RJ45 (Gigabit Ethernet) 4 x SFP (mini-GBIC) 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)

L2 Features

- VLAN Arrange** 802.1Q Tag-based VLAN, 802.1ad QinQ VLAN Stacking 1 to 1, N to 1
- Port Mirroring** Max. Mirror Session: 4
- RSPAN** Remote Switched Port Analysis
- GARP** GVRP, GMRP
- IP Multicast** IGMP Snooping v1/v2/v3, MLDP Snooping, IGMP Immediate leave
- Storm Control** Broadcast, Multicast, Unknown unicast
- LLDP** 802.1ab LLDP, LLDP-MED
- Industrial Protocol** Modbus/TCP
- Redundancy** IEEE 802.1D-STP, IEEE 802.1s-MSTP, IEEE 802.1w-RSTP, X-Ring Pro, with ultra high-speed recovery time less than 20 Seconds with SFP-VDSL modules

QoS

- Priority Queue Scheduling** WRR (Weighted Round Robin), SP (Strict Scheduling Priority) Hybrid Priority, Max. Priority Queues: 8
- Class of Service** IEEE 802.1p Based CoS, IP TOS, DSCP based CoS
- Rate Limiting** Ingress Rate limit, Egress Rate limit
- Link Aggregation** IEEE 802.3ad Dynamic Port Trunking, Static Port Trunking

Security

- Port Security** Static/Dynamic MAC, Max. Learning Limit, MAC Violation Notice
- 802.1X** Port-based/MAC-based Authentication (MD5/PEAP/TLS/TTLS Encryption)
- MAB** MAC Authentication Bypass
- Authentication** RADIUS, TACAS+
- IP Security** IP Source Guard, DHCP Snooping, ARP Spoofing Prevention
- ACL** Access Control List (IP-ACL, MAC-ACL)
Max. ACL Entries: 128

Management

- DHCP** Client, Server, Option66/67/82, DHCP Relay
- Access** SNMP v1/v2c/v3, WEB, Telnet, RMON, Standard MIB-II, Private MIB, Ethernet-Like MIB, RMON MIB (Group 1, 2, 3, 9)
- Security access** SSH2.0, SSL
- Software upgrade** TFTP, SFTP, HTTP, Dual Image
- NTP** SNTP client

Mechanism

- 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

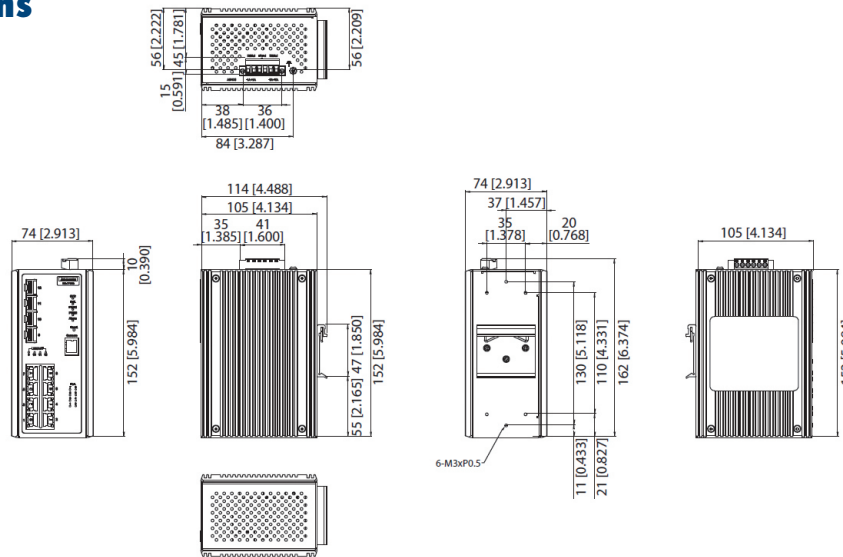
- Power Consumption** 15 W @ 48 V_{DC} (system)
- Power Input** 12 ~ 48 V_{DC}
- Fault Output** 1 x relay output

Protection

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

Dimensions

Unit: mm [inch]



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

Environment

- Operating Temperature: -20 ~ 45°C (-4 ~ 113°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, EN LVD62368
- 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: 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>

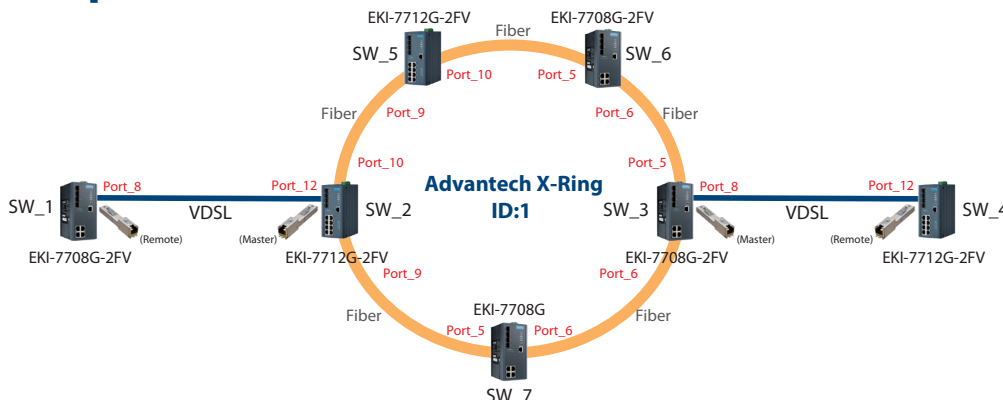
Ordering Information

- EKI-7708G-2FV-AE: 4 x Gigabit + 4 x Gigabit SFP (VDSL2 * 3 supported) + 2 VDSL2 transceivers
- EKI-7712G-2FV-AE: 4 x Gigabit + 4 x Gigabit SFP (VDSL2 * 3 supported) + 2 VDSL2 transceivers

Accessory (Sold Separately)

- SFP-VDSL: Master & Remote as a set
- SFP-VDSL-M: SFP VDSL transceiver, master
- SFP-VDSL-R: SFP VDSL transceiver, remote

Deployment Option



Note: For SFP copper type, only 1000Mbps supported.

Note 2: SFP Transceivers can only be plugged in port 6,7,8 of EKI-7708G-2FV if additional 1 SFP VDSL transceiver is used (port 5 shall not be used)

SFP Transceivers can only be plugged in port 10,11,12 of EKI-7712G-2FV if additional 1 SFP VDSL transceiver is used (port 9 shall not be used)

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