EKI-7712G-4FP EKI-7712G-4FPI

8G+4SFP Port Gigabit Managed Redundant Industrial PoE Switch



Features

- 8 x IEEE 802.3 af/at PoE Gigabit ports + 4 SFP ports
- SFP socket for Easy and Flexible Fiber Expansion
- Redundancy: X-Ring Pro (ultra high-speed recovery time < 20 ms), RSTP/STP (802.1w/1D)
- 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
- -40 ~ 75°C wide-range operating temperature (EKI-7712G-4FPI)
- Dual 48 $V_{\mbox{\tiny DC}}$ power input and 1 relay output
- Support Security Pack to against internal and external cyber threats

Introduction

EKI-7712G-4FP/4FPI supports 8 Gigabit IEEE 802.3 af/at PoE ports and 4 SFP (mini-GBIC) ports. They can provide up to 30 watts per port to fulfill high power consumption PD (Power Device) requirements. They are embedded with Advantech's IXM function, which can benefit users for fast deployment and can dramatically save engineers time and cost. The EKI-7712G series also supports NMS to help IT managers with networking maintenance and failure prevention. Finally, the EKI-7712G series is equipped with X-Ring Pro which can achieve ultra high speed recovery time of less than 20 ms to ensure network stability. The switch also features a wide -40° to 75°C operating temperature (EKI-7712G-4FPI) and NEMA TS2 rating, making the switch an ideal solution for use in traffic applications. EKI-7712G-4FP/4FPI has successfully passed the EN50121-4 European railway standard requirements for emissions and railway platform and trackside deployment.

Specifications

Certification Interface = EMI CE. FCC Class A 8 x 10/100/1000Base-T/TX RJ-45 I/O Port UL61010-2-201 Safety 4 x SFP (mini-GBIC) port IEC60950* RS-232 (RJ45) Console port EMC EN 61000-4-2 - Power Connector 6-pin screw Terminal Block (including relay) EN 61000-4-3 EN 61000-4-4 **Physical** EN 61000-4-5 Enclosure Metal Shell EN 61000-4-6 Protection Class IP 30 EN 61000-4-8 Installation DIN-Rail EN50121-4 Dimensions (W x H x D) 74 x 152 x 105 mm (2.91" x 5.98" x 4.13") Shock IEC 60068-2-27 IEC 60068-2-32 Freefall **LED Display** Vibration IEC 60068-2-6 System LED PWR1, PWR2, SYS, Alarm and R.M. Traffic control NEMA TS2 Port LED Link / Speed / Activity *= Compliant Patent http://www.advantech.com/legal/patent Environment Operating Temperature -40 ~ 75°C (-40 ~ 167°F) (7712G-4FPI) **L2 Features** -10 ~ 60°C (-40 ~ 140°F) (7712G-4FP) L2 MAC Address 8K Storage Temperature -40~85°C Jumbo Frame 9216 Bytes Ambient Relative Humidity 10 ~ 95% (non-condensing) VLAN Group 256 (VLAN ID 1 ~ 4094) Humidity 10 ~ 95% (non-condensing) VLAN Arrange Port based VLAN, Q-in-Q (VLAN Stacking), GVRP Power Port Mirroring Per port, Multi-source port, IP Multicast IGMP Snooping v1/v2/v3, MLD Power Consumption 12.1W @ 48V_{DC} (System) Snooping, IGMP Immediate leave Power Input 48 Vpc (46 to 57 Vpc), Storm Control Broadcast, Multicast, Unknown unicast 53 -57 V_{DC} is recommended for 802.3at, Redundancy IEEE 802.1D-STP. IEEE 802.1s-MSTP. IEEE redundant dual power input 802.1w-RSTP, X-Ring Pro, with ultra high-speed Power Budget 240W recovery time less than 20ms - Fault Output 1 Relay Output

ADVANTECH Industrial Ethernet Solutions
All product specifications are subject to change without notice.

EKI-7712G-4FP/4FPI



QoS

 Priority Queue WRR (Weighted Round Robin), SP (Strict Scheduling Scheduling Priority) Hybrid Priority IEEE 802.1p Based CoS, IP TOS, DSCP based CoS

IEEE 802.3ad Dynamic Port Trunking, Static Port

SNMP v1/v2c/v3, WEB, Telnet, RMON, Standard MIB,

- Class of Service Ingress Rate limit, Egress Rate limit
- Rate Limiting
- Link Aggregation

Security

 Port Security 	Static, Dynamic IP Source Guard, ARP Spoofing
	Prevention, Access Control List, DHCP Snooping,
 Authentication 	802.1x (Port-Based, MD5/TLS/TTLS/PEAP

Private MIB

SNTP client

Trunking

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802.1x (Port-Based, MD5/TLS/TTLS/PEAP
Encryption), TACACS+
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Management

- DHCP Client, Server, Option66/67/82
- Access

Security access

- SSH2.0, SSL TFTP, HTTP, Dual Image Software upgrade
- NTP

Ordering Information

- EKI-7712G-4FPI-AE
- 8GE + 4SFP Port Managed PoE Ethernet Switch w/Wide Temp
- EKI-7712G-4FP-AE
- 8GE + 4SFP Port Managed PoE Ethernet Switch