EKI-7712E-4FP EKI-7712E-4FPI



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

Features

- 8 x IEEE 802.3 af/at PoE Fast Ethernet 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-7712E-4FPI)
- Dual 48 V_{DC} power input and 1 relay output
- Support Security Pack to against internal and external cyber threats

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Introduction

EKI-7712E-4FP/4FPI supports 8 Fast Ethernet 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-7712E series also supports NMS to help IT managers with networking maintenance and failure prevention. Finally, the EKI-7712E series is equipped with X-Ring Pro which can achieve ultra high speed recovery times of less than 20 ms to ensure network stability. The switch also features a wide -40° to 75 °C operating temperature (EKI-7712E-4FPI) and NEMA TS2 rating, making the switch an ideal solution for use in traffic applications. EKI-7712E-4FP/4FPI has successfully passed the EN50121-4 European railway standard requirements for emissions and railway platform and trackside deployment.

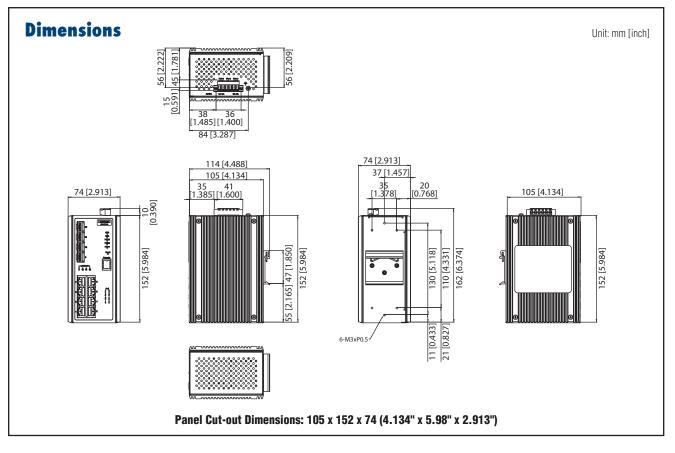
Specifications

 Installation Dimensions (W x H x D) LED Display System LED Port LED Environment Operating Temperature 	Metal Shell IP 30 DIN-Rail 74 x 152 x 105 mm (2.91" x 5.98" x 4.13") PWR1, PWR2, SYS, Alarm and R.M. Link / Speed / Activity -40 ~ 75 °C (-40 ~ 167 °F) (7712E-4FPI)	 Shock Freefall Vibration Traffic control *= Compliant Patent 	EN 61000-4-4 EN 61000-4-5 EN 61000-4-6 EN 61000-4-8 EN50121-4 IEC 60068-2-27 IEC 60068-2-32 IEC 60068-2-6 NEMA TS2 http://www.advantech.com/legal/patent
 Dimensions (W x H x D) 	74 x 152 x 105 mm (2.91" x 5.98" x 4.13")		
LED Display			
 System LED 	PWR1, PWR2, SYS, Alarm and R.M.		
Port LED	Link / Speed / Activity		NEMA TS2
Environment		Patent	http://www.advantech.com/legal/patent
 Operating Temperature 	-40 ~ 75 °C (-40 ~ 167 °F) (7712E-4FPI) -10 ~ 60 °C (-40 ~ 140 °F) (7712E-4FP)	L2 Features	
 Storage Temperature 	-40 ~ 85 °C	L2 MAC Address	8K
 Ambient Relative Humidity 	10 ~ 95% (non-condensing)	 Jumbo Frame 	9216 Bytes
 Humidity 	10 ~ 95% (non-condensing)	 VLAN Group 	256 (VLAN ID 1 ~ 4094)
Power		 VLAN Arrange Port Mirroring 	Port based VLAN, Q-in-Q (VLAN Stacking), GVRP Per port, Multi-source port,
 Power Consumption 	12.1W @ 48V _{DC} (System)	 Port Mirroring IP Multicast 	IGMP Snooping v1/v2/v3, MLD
 Power Input 	48 V _{DC} (46 to 57 V _{DC}),	- ii muilleast	Snooping, IGMP Immediate leave
•	53 -57 V_{DC} is recommended for 802.3at,	 Storm Control 	Broadcast, Multicast, Unknown unicast
	redundant dual power input	 Redundancy 	IEEE 802.1D-STP, IEEE 802.1s-MSTP, IEEE
 Power Budget Fault Output 	240W 1 Relay Output		802.1w-RSTP, X-Ring Pro, with ultra high-speed recovery time less than 20ms

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EKI-7712E-4FP/4FPI



QoS

 Priority Queue WRR (Weighted Round Robin), SP (Strict Scheduling

Trunking

- Scheduling Priority) Hybrid Priority
- Class of Service IEEE 802.1p Based CoS, IP TOS, DSCP based CoS Ingress Rate limit, Egress Rate limit
- Rate Limiting
- Link Aggregation

Security

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

IEEE 802.3ad Dynamic Port Trunking, Static Port

Management

 DHCP 	Client, Server, Option66/67/82
 Access 	SNMP v1/v2c/v3, WEB, Telnet, RMON, Standard MIB,
	Private MIB
 Security access 	SSH2.0, SSL
 Software upgrade 	TFTP, HTTP, Dual Image
NTD	ONTO I' I

- NTP
- SNTP client

Ordering Information

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

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

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