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Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

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EKI-7712E-4F EKI-7712E-4FI

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



Features

- 8 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/TLS/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-4FI)
- Dual 12 ~ 48 V_{DC} power input and 1 relay output
- Support Security Pack to against internal and external cyber threats

Introduction

EKI-7712E-4F/4FI provides abundant ports to connect to many devices with 8 Fast Ethernet ports and 4 SFP (mini-GBIC) ports. It is embedded with Advantech's IXM function for fast deployment, which 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-7712G-4FI) and NEMA TS2 rating, making the switch an ideal solution for use in traffic applications. EKI-7712E-4F/4FI has successfully passed the EN50121-4 European railway standard requirements for emissions and railway platform and trackside deployment.

Specifications

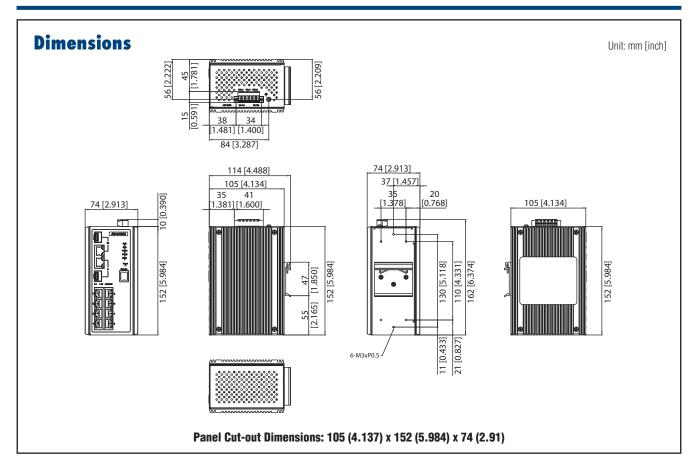
Interface

Interface		Certification	
I/O Port	8 x 10/100Base-T/TX RJ-45	= EMI	CE, FCC Class A
Ormania mant	4 x SFP (mini-GBIC) port	 Safety 	UL61010-2-201
 Console port Power Connector 	RS-232 (RJ45) 6-pin screw Terminal Block (including relay)	- EMC	IEC60950* EN 61000-4-2
- Fower connector	o-pin screw reminal block (including relay)		EN 61000-4-2 EN 61000-4-3
Physical			EN 61000-4-4
 Enclosure 	Metal Shell		EN 61000-4-5
 Protection Class 	IP 30		EN 61000-4-6 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
LED Display		 Freefall 	IEC 60068-2-32
 System LED 	PWR1, PWR2, SYS, Alarm and R.M.	 Vibration 	IEC 60068-2-6
 Port LED 	Link / Speed / Activity	 Traffic control *= Compliant 	NEMA TS2*
Environment		= Compliant	
 Operating Temperature 	-40 ~ 75 °C (-40 ~ 167 °F) (7712E-4FI)	L2 Features	
	-10 ~ 60 °C (-40 ~ 140 °F) (7712E-4F)	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 Dest Missessing 	Port based VLAN, Q-in-Q (VLAN Stacking), GVRP
Power		 Port Mirroring IP Multicast 	Per port, Multi-source port, IGMP Snooping v1/v2/v3, MLD
 Power Consumption 	12.1W @ 48V _{DC} (System)	- II Multicast	Snooping, IGMP Immediate leave
 Power Input 	$12 \sim 48 \ V_{\text{DC}},$ redundant dual power input	 Storm Control 	Broadcast, Multicast, Unknown unicast
 Fault Output 	1 Relay Output	 Redundancy 	IEEE 802.1D-STP, IEEE 802.1s-MSTP, IEEE 802.1w-RSTP, X-Ring Pro, with ultra high-speed recovery time less than 20ms

AD\ANTECH Industrial Ethernet Solutions

All product specifications are subject to change without notice.

EKI-7712E-4F/4FI



QoS

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

Ingress Rate limit, Egress Rate limit

- Scheduling
- Class of Service
- 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

Trunking

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

Management

 DHCP Client, Server, Option66/67/82

SNTP client

Access

Private MIB SSH2.0, SSL Security access

- TFTP, HTTP, Dual Image Software upgrade
- NTP

Ordering Information

- EKI-7712E-4FI-AE 8FE + 4SFP Port Managed Ethernet Switch w/Wide
 - Temp
- EKI-7712E-4F-AE
- 8FE + 4SFP Port Managed Ethernet Switch