EKI-9512 Series EN 50155 12-Port Managed Ethernet Switch with up to 8x PoF Ports

Switch with up to 8x PoE Ports



Features

- M12 connector with IP67 rugged housing
- Complies with EN50155 & EN50121-3-2
- Up to 8 PoE ports which support IEEE802.3af/at
- Wide nominal power input range: 24~110Vpc
- Operating power input range: 16.8~137.5V_{DC}
- Supports X-Ring Pro for rapid and predictable convergence
- Supports IXM for fast and easy maintenance
- Supports N-Key for guick configuration and backup
- Operating temperature: -40 ~ 75°C
- Provides Fast Ethernet & Full Giga Covernet solution

Introduction

The EKI-9512 series Ethernet switch is designed for railway applications with rugged housing and high EMC performancy. The EKI-9512 series is a suitable networking solution for rolling stock and wayside applications. It provides M12 connectors for Ethernet/ console/ relay/ power-input M2) connections to ensure tight and robust connectivity, guarantees reliable operation against environmental disturbances, and complies with IEC61373 vibration and shock or alling stock applications. The portfolio of EKI-9512 series provides 8 different options, catering to various user requirements. It provides 12-ports on different port configuration (please refer to the ordering information). With IEEE802.3af/at PoE functionality (PoE model only), it provides up to a 150 watt power budget (depends on different input vo ane, please refer to PoE Total Power Budget) for P.D. devices (such as camera, IP-phone and wireless access point). The EKI-9512 series features IP67 housing and ample pitch on or loss that can easily connect/disconnect cables without interference; reducing human errors within harsh and narrow industrial environments.

Specifications

Interface

Internate		
 Ethernet Port 	M12 4pin D-coded Female for Fast Fthernet (10/100BASE-T) M12 8pin X-coded Female for Ging Ethernet	120 ¹ 901
	(10/100/1000BASE-T)	50
Console Port	M12 5pin A-coded Femal	60
 Relay Port 	M12 Spin A coded Fearly ale with 2 relay outputs of $1A @ 24V_{DC}$	30'
 Power Connector 	M23 connector	
Physical		Certificatio
 Enclosure 	Aluminum Die-casting	
Protection Class	IP67	 Safety EMC
Installation	Wall Mount	- LMG
 Dimension 	254 x 174 x 64.5 mm (W x H x D)	EMS
LED Display		
 System LED 	PWR1, PWR2, SYS, Alarm, R.M.	Shock
Port LED	Data, PoE (For PoE model only)	 Vibration
Environment		RailwayFire Protection
 Operating Temperature 	-40~75°C (-40~167°F)	 Other
 Storage Temperature 	-40~85°C (-40~185°F)	L2 Feature
 Humidity 	5~95% (non-condensing)	L2 MAC A

Power

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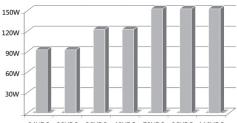
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Power	Consum	ntion	17 Watts	(System)
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Nominal Input Voltage	24/28/36/48/72/96/110V _{DC}
Operating Input range	16.8-137.5V _{DC}
Power Interruptions	Class S2 (10ms) for system and PoE

- Power Interruptions
 - (system only@24Vpc input)

PoE Total Power Budget



24VDC 28VDC 36VDC 48VDC 72VDC 96VDC 110VDC

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- Address
- Jumbo Frame
- VLAN Group VLAN Group
- Port Mirroring
- IP Multicast

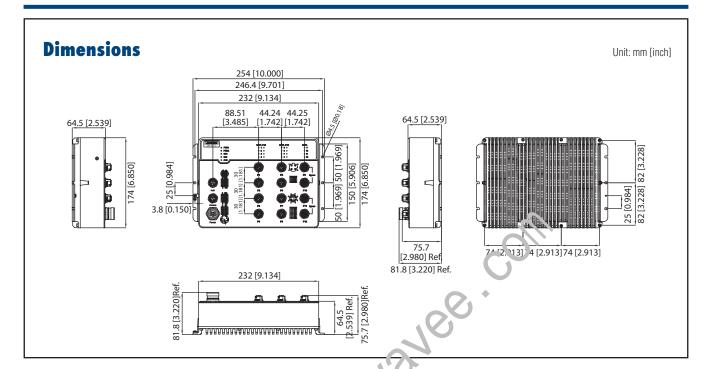
EN62368-1 CE, EN55011/ 55032/ 55024; FCC Part 15 Subpart B class A EN61000-4-2(ESD); EN61000-4-3(RS);

- EN61000-4-4(EFT); EN61000-4-5(Surge); EN61000-4-6(CS) EN 61373 EN 61373
- EN50155, EN50121-3-2, 50121-1 EN45545-2
- EN61000-6-4, EN61000-6-2

8K 9KB 256 (VLAN ID 1~4094) 802.1Q, GVRP, GMRP, 802.1ad VLAN stacking

- Per port, Multi-source port (4 Mirroring sessions Max.)
- IGMP snooping v1/v2/v3, MLD snooping(256 Multicast Entries Max.)

EKI-9512 Series



- Storm Control
- Redundant Protocol

Broadcast, Multicast, Unknown Unicast IEEE 802.1D(STP), IEEE802.1s(MSTP), IEEE802.1w(RSTP), X-Ring Pro, X-Chain, Dual homing, Coupling, ERPS G.8032

Quality of Service

- QoS Function
- Rate Limit
- Max Priority Queues

8

Security

- Port Security
- Authentication
- Security Pack

Scheduling(STRICT/ WRR), Port Priority, ¿72.1p DSCP, IP TOS/ precedence

- Ingress/ Egrss Rate limit
- Static MAC, MAC via ation natice, port-based loop detection
- 802.1x (Port-bas. 1. MAC-based), RADIUS, TACACS+ IP source guard, DoS attack prevention, DHCP snooping, . RP spoofing prevention, L2/L3/L4 ACL (Access Control List)

Clien, Server, Option66/67/82, Port IP-Binding

SNMP v1/v2c/v3, WEB, Telnet, Console, RMON,

Management Feature

- DHCP
- Access
- Security Access
- Software Upgrade
- NTP
- Other

SSH (v2), SSL (v2), HTTPs TFTP, HTTP, Dual Image NTP server/ client, SNTP IPv4, IPv6, Modbus TCP, IXM, N-Key for config file

Standard MIB, Private MIB

backup/ restore

essories

2N	I	Description		
OPT1-M12-CRP-4MD	5	Phoenix Contact M12 D-code 4 pin Male crimp type connector		
OPT1-M12-CRP-8MX	5	Phoenix Contact M12 X-code 8 pin Male crimp type connector		
OPT1-M12-CRP-5MA	5	Phoenix Contact M12 A-code 5 pin Male crimp type connector		
0PT1-M12C-4MD-150R		M12 D-code 4 pin Male to RJ45, cable length:1.5m		
OPT1-M12C-8MX-150R		M12 X-code 8 pin Male to RJ45, cable length:1.5m		
OPT1-M12C-5MA-DB9	Q	M12 A-code 5 pin Male to DB9 console, cable length:1.5m		
0PT1-M23C-6FH-100	\bigcirc	M23 Female to 1m cable		
1990023703S000	98	M12 waterproof CAP		

Ordering Information

Model Name	10/100BASE-T	10/100BASE-T with PoE Function	10/100/1000BASE-T	10/100/1000BASE-T with PoE Function	10/100/1000BASE-T with Bypass Function
EKI-9512E-4GMPW-AE		8 (P1-8)			4 (P9-12)
EKI-9512G-4GMPW-AE				8 (P1-8)	4 (P9-12)
EKI-9512E-4GMW-AE	8 (P1-8)				4 (P9-12)
EKI-9512G-4GMW-AE			8 (P1-8)		4 (P9-12)
EKI-9512E-4GMPX-AE		8 (P1-8)	4 (P9-12)		
EKI-9512G-4GMPX-AE			4 (P9-12)	8 (P1-8)	
EKI-9512E-4GMX-AE	8 (P1-8)		4 (P9-12)		
EKI-9512G-4GMX-AE			12 (P1-12)		