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 Ethernet solution

Introduction

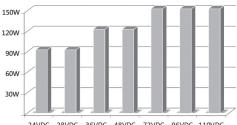
The EKI-9512 series Ethernet switch is designed for railway applications with rugged housing and high EMC performance. The EKI-9512 series is a suitable networking solution for rolling stock and wayside applications. It provides M12 connectors for Ethernet/ console/ relay/ power-input(M23) connections to ensure tight and robust connectivity, guarantees reliable operation against environmental disturbances, and complies with IEC61373 vibration and shock for rolling 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 voltage, 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 connectors that can easily connect/disconnect cables without interference; reducing human errors within harsh and narrow industrial environments.

Specifications

Interface

 Ethernet Port M12 4pin D-coded Female for Fast (10/100BASE-T) M12 8pin X-coded Female for Giga (10/100/1000BASE-T) Console Port M12 5pin A-coded Female Relay Port M12 5pin A-coded Female with 2 m 1A @ 24V_{DC} Power Connector M23 connector 	Ethernet	
Physical • Enclosure Aluminum Die-casting	Certification	
Protection Class IP67	Safety EN62368-1	
Installation Wall Mount	EMC CE, EN55011/ 55032/ 55024; FCC Part 15 Subp class A	part B
Dimension 254 x 174 x 64.5 mm (W x H x D)	EMS EN61000-4-2(ESD); EN61000-4-3(RS);	
LED Display	EN61000-4-4(EFT); EN61000-4-5(Surge); EN61000-4-6(CS)	
• System LED PWR1, PWR2, SYS, Alarm, R.M.	- Shock EN 61373	
Port LED Data, PoE (For PoE model only)	Vibration EN 61373 Polymony ENECADE ENECADE A CONSTRUCT A	
Environment	 Railway EN50155, EN50121-3-2, 50121-1 Fire Protection EN45545-2 	
 Operating Temperature -40~75°C (-40~167°F) 	• Other EN61000-6-4, EN61000-6-2	
 Storage Temperature -40~85°C (-40~185°F) 	L2 Feature	
• Humidity 5~95% (non-condensing)	 L2 MAC Address 8K 	
P	 Jumbo Frame 9KB 	
Power	VLAN Group 256 (VLAN ID 1~4094) VLAN Group VLAN Group VLAN Group	
Power Consumption 17 Watts (System)	 VLAN Group 802.1Q, GVRP, GMRP, 802.1ad VLAN stacking Port Mirroring Per port, Multi-source port (4 Mirroring session) 	אר
 Nominal Input Voltage 24/28/36/48/72/96/110V_{DC} 	Max.)	10
 Operating Input range 16.8-137.5V_{DC} Power Interruptions Class S2 (10ms) for system and Pc 	IP Multicast IGMP snooping v1/v2/v3 MLD snooping(256	

PoE Total Power Budget

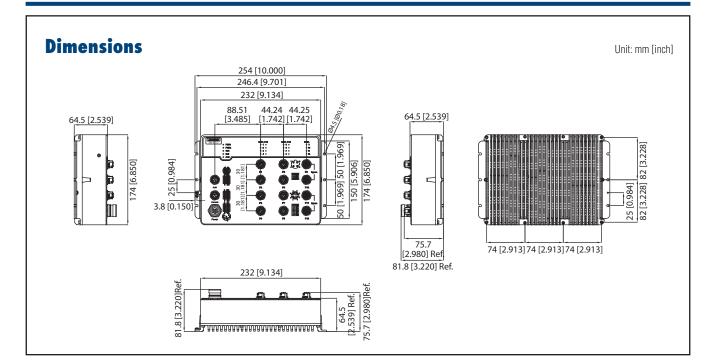


VDC 48VDC 72VDC 96VDC 110VDC

Multicast Entries Max.)

(system only@24Vpc input)

EKI-9512 Series



- Storm Control
- Redundant Protocol

Quality of Service

- QoS Function
- Rate Limit
- Max Priority Queues

Security

- Port Security
- Authentication
- Security Pack

Management Feature

- DHCF
- Acces
- Secu
- Softw
- NTP
- Other

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

Scheduling(STRICT/ WRR), Port Priority, 802.1p, DSCP, IP TOS/ precedence Ingress/ Egrss Rate limit

- 8
- Static MAC, MAC violation notice, port-based loop detection
- 802.1x (Port-based, MAC-based), RADIUS, TACACS+ IP source guard, DoS attack prevention, DHCP snooping, ARP 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,
Standard MIB, Private MIB
SSH (v2), SSL (v2), HTTPs
TFTP, HTTP, Dual Image
NTP server/ client, SNTP

IPv4, IPv6, Modbus TCP, IXM, N-Key for config file backup/ restore

Accessories

PN		Description		
OPT1-M12-CRP-4MD	5	Phoenix Contact M12 D-code 4 pin Male crimp type connector		
OPT1-M12-CRP-8MX	S	Phoenix Contact M12 X-code 8 pin Male crimp type connector		
OPT1-M12-CRP-5MA	S	Phoenix Contact M12 A-code 5 pin Male crimp type connector		
OPT1-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	0	M12 A-code 5 pin Male to DB9 console, cable length:1.5m		
OPT1-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)		