EKI-9512P-HV EKI-9512P-LV

EN 50155 12-port Full Gigabit Managed Ethernet Switch with PoE/PoE+

All Gigabit connections support dual ring protection and non-blocking traffic

8 x M12 Gigabit ports support PoE + 4 x M12 Gigabit ports with bypass

• X-Ring Pro supports rapid and predictable convergence

IEEE 802.3at PoE+ to supply 30W power

IEEE 802.3af PoE to supply 15.4 power

Provides M12 connector with IP67 protection
 Supports wide operating temperatures from -40 to 70°C

Support up to 8 PoE ports



Introduction

EKI-9512P M12 Managed Ethernet Switch is designed for railway applications, including rolling stock. EKI-9512P switch uses M12 connectors to ensure tight, robust connections, and to guarantee reliable operation against environmental disturbances, such as vibration and shock. EKI-9512P provides 12 Gigabit Ethernet M12 ports with 8 IEEE 802.3at/af compliant PoE+/PoE ports. The PoE+/PoE switch is classified as power source equipment (PSE) and provides up to 30/15.4 watts of power per port, and can be used for IEEE 802.3at/af compliant powered devices (PDs), such as IP cameras, wireless access points, and IP phones. In addition, EKI-9512P provides a wide power input range of 24/36/48 V_{DC}, 72/96/110 V_{DC}; the dual, redundant power input increases the reliability of your communications system. The -40 to 70°C operating temperature and IP67-rated waterproof enclosure allow deployment in harsh environments. EKI-9512P is compliant with the essential sections of the European railway standard EN 50155, EN50121-3-2 covering operating temperature, power input voltage, surge, ESD, and vibration, making the switches suitable for a variety of industrial applications.

Power

Features
- Complies with EN50155

forwarding

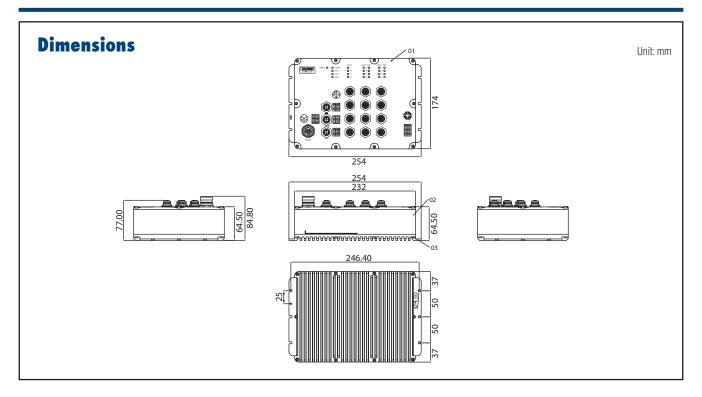
function

Specifications

Interface

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 I/O Port 	12 x 10/100/1000BaseT M12 X-Code	 Power Consumption 	~ 26.4 Watts (System)			
Console Port	M12 A-Code		~ 90 Watts			
F/W Backup Port	USB (M12 A-Code)		Supports up to 8 ports PoE/PoE+			
 Power Connector 	M23 6 pin	 Power Input 	24 / 36 / 48 V_{DC} dual inputs (EKI-9512P-LV)			
			72 / 96 / 110 V_{DC} dual inputs (EKI-9512P-HV)			
Physical			Supports Overload Current Protection			
 Enclosure 	Aluminum Shell		Supports Reverse Polarity Protection			
 Protection Class 	IP 67	Certification				
 Installation 	Wall Mount, DIN Rail (Optional)	- EMI	FCC Part 15 Subpart B Class A			
 Dimensions (W x D x H) 	254 x 174 x 64.5 (mm)	Liiii	CE EN55022 (CISPR)			
- Weight	3.5 kg		EN55024 Class A			
LED Display		EMS	EN61000-4-2 (ESD); EN61000-4-3 (RS); EN61000-			
			4-4 (EFT); EN61000-4-5 (Surge); EN61000-4-6 (CS)			
 System LEDs 	PWR1, PWR2, SYS, CFG, ALM		Safety			
Port LED	Data, PoE	 Shock 	IEC 61373			
- · ·		 Freefall 	IEC 60068-2-32			
Environment		 Vibration 	IEC 61373			
 Operating Temperature 	-40 ~ 70°C (-40 ~ 158°F)	Rail Traffic	EN 50155; EN50121-3-2			
 Storage Temperature 	-40 ~ 85°C (-40 ~ 185°F)	 Patent 	http://www.advantech.com/legal/patent			
 Ambient Relative Humidity 	5 ~ 95% (non-condensing)		····			

EKI-9512P-HV **EKI-9512P-LV**



L2 Features

 L2 MAC Address Jumbo Frame VLAN Group VLAN 	16K 9KB 4093 (VLAN ID 1~4093) Mac based VLAN, Protocol based VLAN, IP subnet based VLAN. Port based VLAN, GVRP
Port MirroringIP Multicast	Per port, Multi-source port IGMP Snooping v1/v2/v3, MLD Snooping, IGMP Immediate leave
Storm ControlSpanning Tree	Broadcast, Multicast, Unknown unicast IEEE 802.1D-STP, IEEE 802.1s-MSTP, IEEE 802.1w-RSTP, X-Ring Pro
QoS Priority Queue Schedulina	WRR (Weighted Round Robin), SP (Strict Priority)

- Class of Service IEEE 802.1p based CoS, IP TOS, DSCP based CoS Egress Rate limit, Ingress Rate limit
- Rate Limiting
- IEEE 802.3ad Dynamic Port Trunking, Static Port Link Aggregation Trunking

Security

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- Port Security
 - Authentication
- ACL .
- **Advanced Security** •
- Management
- DHCP
- Access
- Security Access
- Software Upgrade
- NTP

Ordering Information

Static, Dynamic

IP Source Guard

550 rules

Private MIB SSH 2.0, SSL

NTP client

TFTP, HTTP, Dual Image

802.1x (Port-Based), RADIUS, TACACS+

Client, Server, Relay, Option 66/67

- EKI-9512-POIDL10E
- EKI-9512-POIDH10E
- 12x M12 GbE Managed Ethernet Switch with PoE/PoE +, including 24/36/48 V_{DC} dual power inputs 12x M12 GbE Managed Ethernet Switch with PoE/PoE +, including 72/96/110 V_{DC} dual power inputs

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

Products		Ports Combination			Power Input Range			Others	
Model Name	Ordering P/N	PoE,10/100/ 1000 Mbps M12 X-Coded	10/100/ 1000 Mbps M12 X-Coded	PoE,10/100 Mbps M12 D-Coded	10/100 Mbps M12 D-Coded	HV (72V/96V/110 Voc)	LV (24V/36V/48 V _{DC})	WV (24/36/48/72V/ 96V/110 V _{DC})	Conformal Coating
EKI-9516P-HV	EKI-9516-P0IDH10E	12	4			1			√
EKI-9516P-LV	EKI-9516-P0IDL10E	12	4				✓		√
EKI-9516-WV	EKI-9516-COIDW10E		16					\checkmark	√
EKI-9512P-HV	EKI-9512-P0IDH10E	8	4			√			√
EKI-9512P-LV	EKI-9512-P0IDL10E	8	4				✓		√
EKI-9512-WV	EKI-9512-C0IDW10E		12					√	√
EKI-9516DP-HV	EKI-9516-PFIDH10E			12	4	√			√
EKI-9516DP-LV	EKI-9516-PFIDL10E			12	4		✓		√
EKI-9516D-WV	EKI-9516-CFIDW10E				16			\checkmark	√
EKI-9512DP-HV	EKI-9512-PFIDH10E			8	4	√			\checkmark
EKI-9512DP-LV	EKI-9512-PFIDL10E			8	4		✓		√
EKI-9512D-WV	EKI-9512-CFIDW10E				12			√	✓