EKI-9516-WV EN 50155 16-port Full Gigabit Managed Ethernet Switch

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

12 x M12 Gigabit ports and 2 pairs M12 Gigabit ports with bypass relay

• X-Ring Pro supports rapid and predictable convergence Provides M12 connector with IP67 protection Operating Temperature: -40 ~ 70° C

Wide Range Power Input (24/36/48/72/96/110 V_{DC})



Introduction

EKI-9516 M12 Managed Ethernet Switch is designed for railway applications, including rolling stock. EKI-9516 switch uses M12 connectors to ensure tight, robust connections, and to guarantee reliable operation against environmental disturbances, such as vibration and shock. EKI-9516 provides 16 Gigabit Ethernet M12 ports. In addition, EKI-9516 provides a wide power input range of 24/36/48/72/96/110 Vnc; the dual, isolated 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-9516 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.

Specifications

Interface

I/O Port Console Port

16 x 10/100/1000Base-T M12 X-Code M12 A-Code USB (M12 A-Code)

M23 6 pin

IP 67

Aluminum Shell

- F/W Backup Port
- Power Connector

Physical

- Enclosure
- Protection Class
- Installation Wall Mount, DIN Rail (Optional)
- Dimensions (W x D x H) 254 x 174 x 64.5 (mm) 3.6 kg
- Weight

LED Display

•	System	LEDs
---	--------	------

- Port LED
- Environment
- Operating Temperature -40 ~ 70°C (-40 ~ 158°F)
- Storage Temperature -40 ~ 85°C (-40 ~ 185°F)

Data

Ambient Relative 5 ~ 95% (non-condensing) Humidity

Power

- Power Consumption
- Power Input

~ 26.4 Watts (System) 24/36/48/72/96/110 Vpc dual inputs Supports Overload Current Protection Supports Reverse Polarity Protection

Certification

= EMI

- EMS
- Shock
- Freefall
- Vibration Rail Traffic

L2 Features

- L2 MAC Address
- Jumbo Frame
- VLAN Group
- VLAN
- Port Mirroring
- IP Multicast
- Storm Control
- Spanning Tree

Features - Complies with EN50155

forwarding

function

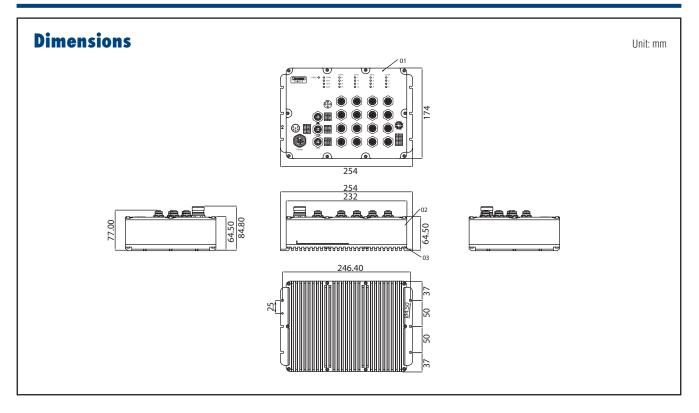
FCC Part 15 Subpart B Class A CE EN55022 (CISPR) EN55024 Class A EN61000-4-2 (ESD): EN61000-4-3 (RS): EN61000-4-4 (EFT); EN61000-4-5 (Surge); EN61000-4-6 (CS) IEC 61373 IEC 60068-2-32 IEC 61373 EN 50155; EN50121-3-2

16K 9KB 4093 (VLAN ID 1~4093) Mac based VLAN, Protocol based VLAN, IP subnet based VLAN. Port based VLAN. GVRP Per port, Multi-source port IGMP Snooping v1/v2/v3, MLD Snooping, IGMP Immediate leave Broadcast, Multicast, Unknown unicast IEEE 802.1D-STP. IEEE 802.1s-MSTP. IEEE 802.1w-RSTP, X-Ring Pro

Industrial Ethernet Solutions AD\ANTECH

PWR1, PWR2, SYS, CFG, ALM

EKI-9516-WV



QoS

- Priority Queue Scheduling
- Class of Service IEEE 802.1p based CoS, IP TOS, DSCP based CoS

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

IEEE 802.3ad Dynamic Port Trunking, Static Port

Egress Rate limit, Ingress Rate limit

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

Trunking

550 rules

Static, Dynamic

- Rate Limiting
- Link Aggregation

Security

- Port Security
- Authentication
- ACL
- Advanced Security
 IP Source Guard

Management

- DHCP
- Access

NTP

Client, Server, Relay, Option 66/67

- SNMP v1/v2c/v3, WEB, Telnet, RMON, Standard MIB, Private MIB
- SSH 2.0, SSL
- TFTP, HTTP, Dual Image
- NTP client

Ordering Information

EKI-9516-COIDW10E

Security Access

Software Upgrade

16x M12 GbE Managed Ethernet Switch including 24/36/48/72/96/110 V_{DC} dual power inputs

EKI-9516/9512	Series	Selection	Table
---------------	--------	-----------	-------

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			✓			~
EKI-9516P-LV	EKI-9516-P0IDL10E	12	4				✓		~
EKI-9516-WV	EKI-9516-C0IDW10E		16					\checkmark	✓
EKI-9512P-HV	EKI-9512-P0IDH10E	8	4			✓			~
EKI-9512P-LV	EKI-9512-P0IDL10E	8	4				✓		✓
EKI-9512-WV	EKI-9512-COIDW10E		12					√	~
EKI-9516DP-HV	EKI-9516-PFIDH10E			12	4	✓			~
EKI-9516DP-LV	EKI-9516-PFIDL10E			12	4		✓		✓
EKI-9516D-WV	EKI-9516-CFIDW10E				16			✓	✓
EKI-9512DP-HV	EKI-9512-PFIDH10E			8	4	√			✓
EKI-9512DP-LV	EKI-9512-PFIDL10E			8	4		✓		✓
EKI-9512D-WV	EKI-9512-CFIDW10E				12			√	✓