

EKI-9512D-WV

EN 50155 12-port Managed Ethernet Switch



Features

- Complies with EN50155
- All 10/100 Mbps connections support dual ring protection and non-blocking traffic forwarding
- X-Ring Pro supports rapid and predictable convergence
- Provides M12 connector with IP67 protection
- Supports wide operating temperatures from -40 ~ 70°C
- Wide Range Power Input (24/36/48/72/96/110 V_{DC})

Introduction

EKI-9512D M12 Managed Ethernet Switch is designed for railway applications, including rolling stock. EKI-9512D switch uses M12 connectors to ensure tight, robust connections, and to guarantee reliable operation against environmental disturbances, such as vibration and shock. EKI-9512D provides 12 Fast Ethernet M12 ports. In addition, EKI-9512D provides a wide power input range of 24/36/48/72/96/110 V_{DC}; 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-9512D 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** 12 x 10/100BaseT M12 D-Code
- Console Port** M12 A-Code
- F/W Backup Port** USB (M12 A-Code)
- Power Connector** M23 6 pin

Physical

- Enclosure** Aluminum Shell
- Protection Class** IP 67
- Installation** Wall Mount, DIN Rail (Optional)
- Dimensions (W x D x H)** 254 x 174 x 64.5 (mm)
- Weight** 3.5 kg

LED Display

- System LEDs** PWR1, PWR2, SYS, CFG, ALM
- Port LED** Data

Environment

- Operating Temperature** -40 ~ 70°C (-40 ~ 158°F)
- Storage Temperature** -40 ~ 85°C (-40 ~ 185°F)
- Ambient Relative Humidity** 5 ~ 95% (non-condensing)

Power

- Power Consumption** ~ 26.4 Watts (System)
- Power Input** 24/36/48/72/96/110 V_{DC} dual inputs
Supports Overload Current Protection
Supports Reverse Polarity Protection

Certification

- EMI** FCC Part 15 Subpart B Class A
CE EN55022 (CISPR)
EN55024 Class A
- EMS** EN61000-4-2 (ESD); EN61000-4-3 (RS); EN61000-4-4 (EFT); EN61000-4-5 (Surge); EN61000-4-6 (CS)
- Shock** IEC 61373
- Freefall** IEC 60068-2-32
- Vibration** IEC 61373
- Rail Traffic** EN 50155; EN50121-3-2

L2 Features

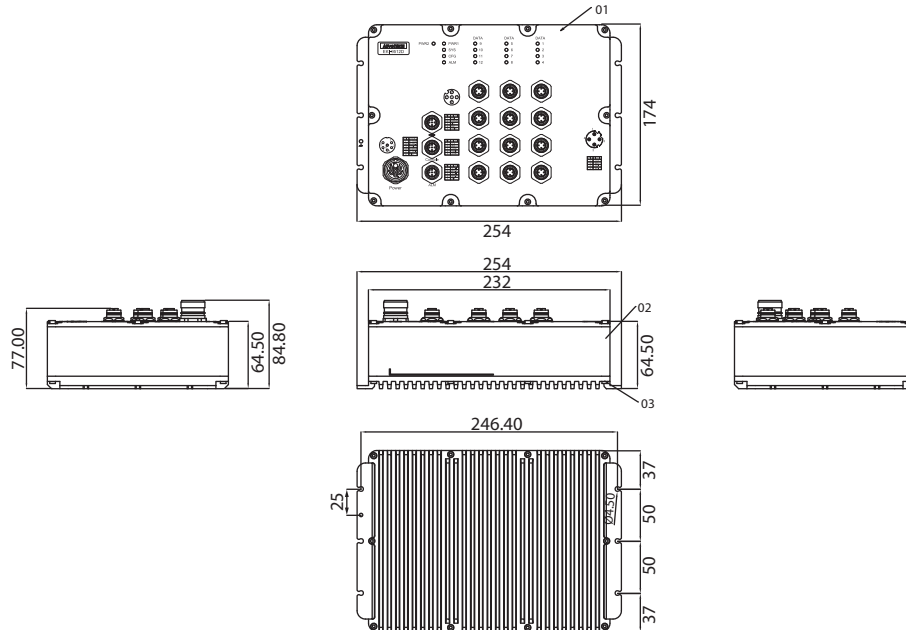
- L2 MAC Address** 16K
- Jumbo Frame** 9KB
- VLAN Group** 4093 (VLAN ID 1-4093)
- VLAN** Mac based VLAN, Protocol based VLAN, IP subnet based VLAN, Port based VLAN, GVRP
- Port Mirroring** Per port, Multi-source port
- IP Multicast** IGMP Snooping v1/v2/v3, MLD Snooping, IGMP Immediate leave
- Storm Control** Broadcast, Multicast, Unknown unicast
- Spanning Tree** IEEE 802.1D-STP, IEEE 802.1s-MSTP, IEEE 802.1w-RSTP, X-Ring Pro

QoS

- Priority Queue Scheduling** WRR (Weighted Round Robin), SP (Strict Priority)
- Class of Service** IEEE 802.1p based CoS, IP TOS, DSCP based CoS
- Rate Limiting** Egress Rate limit, Ingress Rate limit
- Link Aggregation** IEEE 802.3ad Dynamic Port Trunking, Static Port Trunking

Dimensions

Unit: mm



Security

- **Port Security** Static, Dynamic
- **Authentication** 802.1x (Port-Based), RADIUS, TACACS+
- **ACL** 550 rules
- **Advanced Security** IP Source Guard

Management

- **DHCP** Client, Server, Relay, Option 66/67
- **Access** SNMP v1/v2c/v3, WEB, Telnet, RMON, Standard MIB, Private MIB
- **Security Access** SSH 2.0, SSL
- **Software Upgrade** TFTP, HTTP, Dual Image
- **NTP** NTP client

Ordering Information

- **EKI-9512-CFIDW10E** 12 x M12 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 V _{DC})	LV (24V/36V/48 V _{DC})	WV (24/36/48/72V/96V/110 V _{DC})	Conformal Coating
EKI-9516P-HV	EKI-9516-POIDH10E	12	4			✓			✓
EKI-9516P-LV	EKI-9516-POIDL10E	12	4				✓		✓
EKI-9516-WV	EKI-9516-COIDW10E		16					✓	✓
EKI-9512P-HV	EKI-9512-POIDH10E	8	4			✓			✓
EKI-9512P-LV	EKI-9512-POIDL10E	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			✓	✓

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Advantech](#) manufacturer:

Other Similar products are found below :

[ADAM-4117-AE](#) [ADAM-6017-CE](#) [EKI-1522-CE](#) [ADAM-4018+-BE](#) [ADAM-6224-AE](#) [ADAM-6251-AE](#) [PCM-9370F-L4A2](#) [ARK-2121L-U0A1E](#) [OPT1-DB9-AE](#) [EKI-9316-P0ID42E](#) [EKI-5626C-AE](#) [EKI-1521-BE](#) [EKI-5526I-AE](#) [EKI-2741LX-AE](#) [DVP-7633HE](#) [PWR-243-AE](#) [ADAM-4068-BE](#) [ADAM-4069-AE](#) [ADAM-6066-CE](#) [ADAM-6521-BE](#) [ADAM-3013-AE](#) [ADAM-3016-AE](#) [ADAM-4052-BE](#) [ADAM-4521-AE](#) [OPT4A-AE](#) [PCI-1711UL-CE](#) [PCI-1739U-AE](#) [PCI-1756-BE](#) [PCI-1762-BE](#) [PCIE-1612C-AE](#) [PCIE-1622B-BE](#) [PCIE-1753-AE](#) [PCL-10125-1E](#) [PCL-10125-3E](#) [PCL-10250-1E](#) [USB-4702-AE](#) [USB-4751-AE](#) [SQF-S25M4-16G-S9E](#) [SQF-MSDM1-32G-21C](#) [SOM-DB5800-00A2E](#) [SQF-P10S2-8G-P8E](#) [SOM-6896C3-U1A1E](#) [PCE-4128G2-00A1E](#) [DVP-7016HE](#) [SQF-S25S2-8G-S9C](#) [EKI-7758F-AE](#) [SQF-S25M4-128G-S9E](#) [PCM-9343EL-S6A1E](#) [DS-370GQ-U0A1E](#) [PCI-1760U-BE](#)