

EKI-9512 Series

EN 50155 12-Port Managed Ethernet 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: 24~110V_{DC}
- 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 quick 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 Ethernet (10/100BASE-T)
 - M12 8pin X-coded Female for Giga Ethernet (10/100/1000BASE-T)
- **Console Port**
 - M12 5pin A-coded Female
- **Relay Port**
 - M12 5pin A-coded Female with 2 relay outputs of 1A @ 24V_{DC}
- **Power Connector**
 - M23 connector

Physical

- **Enclosure**
 - Aluminum Die-casting
- **Protection Class**
 - IP67
- **Installation**
 - Wall Mount
- **Dimension**
 - 254 x 174 x 64.5 mm (W x H x D)

LED Display

- **System LED**
 - PWR1, PWR2, SYS, Alarm, R.M.
- **Port LED**
 - Data, PoE (For PoE model only)

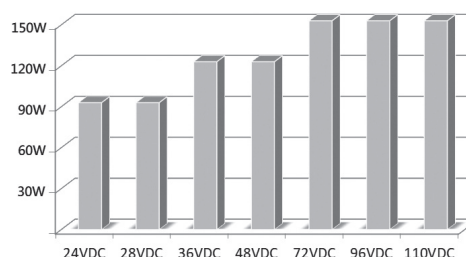
Environment

- **Operating Temperature**
 - 40~75°C (-40~167°F)
- **Storage Temperature**
 - 40~85°C (-40~185°F)
- **Humidity**
 - 5~95% (non-condensing)

Power

- **Power Consumption**
 - 17 Watts (System)
- **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 (system only@24V_{DC} input)

PoE Total Power Budget



Certification

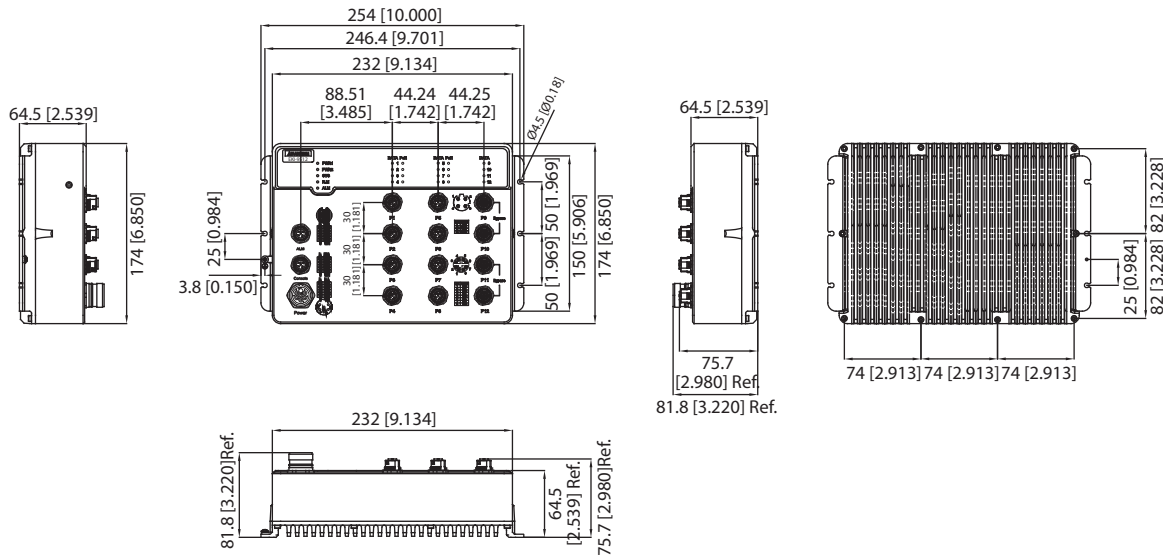
- **Safety**
 - EN62368-1
- **EMC**
 - CE, EN55011/ 55032/ 55024; FCC Part 15 Subpart B class A
- **EMS**
 - EN61000-4-2(ESD); EN61000-4-3(RS); EN61000-4-4(EFT); EN61000-4-5(Surge); EN61000-4-6(CS)
- **Shock**
 - EN 61373
- **Vibration**
 - EN 61373
- **Railway**
 - EN50155, EN50121-3-2, 50121-1
- **Fire Protection**
 - EN45545-2
- **Other**
 - EN61000-6-4, EN61000-6-2

L2 Feature

- **L2 MAC Address**
 - 8K
- **Jumbo Frame**
 - 9KB
- **VLAN Group**
 - 256 (VLAN ID 1~4094)
- **VLAN Group**
 - 802.1Q, GVRP, GMRP, 802.1ad VLAN stacking
- **Port Mirroring**
 - Per port, Multi-source port (4 Mirroring sessions Max.)
- **IP Multicast**
 - IGMP snooping v1/v2/v3, MLD snooping(256 Multicast Entries Max.)

Dimensions

Unit: mm [inch]



- 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

Scheduling(STRICT/ WRR), Port Priority, 802.1p,
DSCP, IP TOS/ precedence
Ingress/ Egrss Rate limit
8

Security

- **Port Security**

Static MAC, MAC violation notice, port-based loop detection

- Authentication
- Security Pack

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)

Management Feature

- DHCP
- Access

Client, Server, Option66/67/82, Port IP-Binding
SNMP v1/v2c/v3, WEB, Telnet, Console, RMON,
Standard MIB, Private MIB
SSH (v2), SSL (v2), HTTPS

- Security Access
- Software Upgrade
- NTP
- Other

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		Phoenix Contact M12 D-code 4 pin Male crimp type connector
OPT1-M12-CRP-8MX		Phoenix Contact M12 X-code 8 pin Male crimp type connector
OPT1-M12-CRP-5MA		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		M12 A-code 5 pin Male to DB9 console, cable length: 1.5m
OPT1-M23C-6FH-100		M23 Female to 1m cable
1990023703S000		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)		

Tento produkt můžete zakoupit u společnosti AutoCont IPC a.s.



AutoCont IPC a.s.

Váš dodavatel průmyslových počítačů, komponent a speciálních průmyslových IT systémů.

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ODMĚNA ZA VĚRNOST

Pravidelní zákazníci u nás nakupují za nižší ceny. Výše slevy se odvíjí od realizovaného obrátu.



SERVIS ON-SITE A IN-TIME

K projektovým dodávkám nabízíme rozšířenou podporu a servis s garancí výměny zařízení do 48 hodin.