# EKI-9512-4GRX EN50155 Layer 3 Management Eth

# **Management Ethernet Switch**



#### Features

- M12 connector with IP67 rugged housing
- Complies with EN50155 & EN50121-3-2
- Wide nominal power input range: 24~110V<sub>DC</sub>
- Operating power input range: 16.8~137.5V<sub>DC</sub>
- Supports X-Ring Pro for rapid and predictable convergence

EN62368-1

EN61000-4-6(CS)

class A

EN 61373

EN 61373

EN45545-2

- Supports N-Key for guick configuration and backup
- Operating temperature: -40 ~ 75°C
- Provides Fast Ethernet & Full Giga Ethernet solution

# Introduction

The EKI-9512E(G)-4GRX Ethernet switch is designed for railway applications with rugged housing and high E 40° performance. It is a suitable networking solution for rolling stock and wayside applications. It provides M12 connectors for Ethernet/ console/ relay/ power-input(M 3) connections to ensure tight and robust connectivity, guarantees reliable operation against environmental disturbances, and complies with IEC61373 vibration and shock on vibration stock applications, and supports Laver 3 routing capabilities to facilitate the deployment of applications across networks, separating the subnet and also optimizing the security of on-board network. The EKI-9512E(G)-4GRX features IP67 housing and ample pitch connectors that can easily connect/ disconnect cables without intercence; reducing human errors within the harsh and narrow industrial environments.

# **Specifications**

#### Interface

M12 4pin D-coded Female for Fast Fthernet (10/100BASE-T) M12 8pin X-coded Female for Gigs Ethernet (10/100/1000BASE-T) M12 5pin A-coded Femal M12 5pin A-coded Febrale with 2 relay outputs of

254 x 174 x 64.5 mm (W x H x D)

PWR1, PWR2, SYS, Alarm, R.M.

Data, PoE (For PoE model only)

1A @ 24V<sub>DC</sub>

M23 connector

Aluminum Shell

Wall Mount

IP67

- Console Port Relay Port
- Power Connector

#### **Physical**

- Enclosure
- Protection Class
- Installation
- Dimension

#### **LED Display**

•	System	LED
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Port LED

#### Environment

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

#### Power

- Power Consumption 17 Watts (System)
- Nominal Input Voltage 24/28/36/48/72/96/110V<sub>DC</sub>
- Operating Input range 16.8-137.5Vpc

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- Safety EMC
- EMS
- Shock .
- Vibration .

- Railway **Fire Protection**
- Other

#### L2 Feature

- L2 MAC Address
- Jumbo Frame
- VLAN Group
- VLAN Group Port Mirroring
- IP Multicast

#### Layer 3 Feature

- **Routing Feature** Max. Host Entries
- NAT

8K 9KB 256 (VLAN ID 1~4094) 802.1Q, GVRP, 802.1ad VLAN stacking Per port, Multi-source port (4 Mirroring sessions Max.) IGMP snooping v1/v2/v3, MLD snooping(256

CE, EN55011/ 55032/ 55024; FCC Part 15 Subpart B

EN61000-4-2(ESD); EN61000-4-3(RS);

EN50155, EN50121-2-3, 50121-1

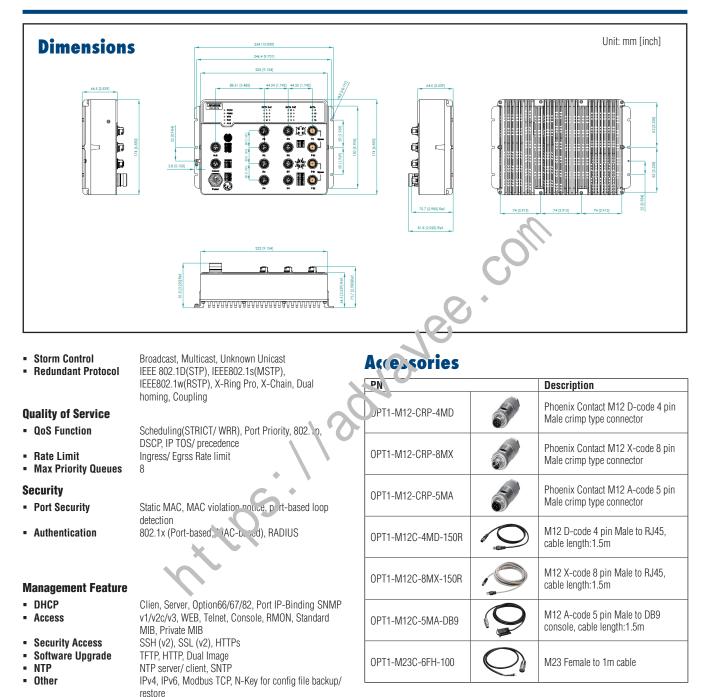
EN61000-6-4, EN61000-6-2

EN61000-4-4(EFT); EN61000-4-5(Surge);

Multicast Entries Max.)

Static Route 512 S-NAT, D-NAT

### EKI-9512-4GRX



# **Ordering Information**

- EKI-9512E-4GRX Layer 3 managed Ethernet Switch with 8 x Fast Ethernet and 4 x Giga Ethernet ports
- EKI-9512G-4GRX Layer 3 managed Ethernet Switch with Full Giga Ethernet ports