



**EtherWAN**

[migrate-ed9.hellosanta.tw/products/ex63000-series](http://migrate-ed9.hellosanta.tw/products/ex63000-series) EX63000 Series

EX63000 Series

Industrial Managed 16-port 10/100BASE with 2-port Gigabit combo Ethernet Switch





## Overview

EtherWAN's EX63000 Series provides an industrial Fully Managed 18-port switching platform combining high performance switching backbone with robust and secure management features required for mission critical and harsh environments where sustained connectivity is crucial.

The EX63000 Series is equipped with sixteen 10/100BASE Fast Ethernet ports, in combination with up to two Gigabit combo ports with Fixed Fiber options. Mountable on a DIN-rail, the EX63000 Series is equipped with EtherWAN's Alpha-Ring self-healing technology, providing less than 15ms fault recovery time making it ideal for applications intolerant to interruption.

With support for both IPv4 and IPv6, management features include port security, IGMP snooping, VLANs, GARP protocols, and LACP. Management is via web browser, Telnet, SNMP, RMON, TFTP, and RS-232 console interfaces.

EtherWAN — "When Connectivity is Crucial."

## Spotlight

### Versatile Connectivity

» Provides 16-port 10/100BASE-TX plus 2-port Gigabit-SX/LX/BX combo

### Hardened Grade

» Wide operating temperature range from -10 to 60°C (-14 to 140°F) for extreme environments  
» Fanless and ruggedized housing

### Secure Remote Access

» IEEE 802.1x, and RADIUS support

## Features

### Management

- » Interface
  - • CLI, Telnet and web browser
  - • SNMP v1/v2c/v3
- » Firmware and configuration upgrade and backup via TFTP
- » Supports DHCP Server/Client
- » RMON (Remote monitoring): group 1, 2, 3, 9
- » Port mirroring: TX/RX and both
- » NTP (Network Time Protocol) time synchronization
- » IEEE 802.1ab LLDP (Link Layer Discovery Protocol)
- » IPv4/IPv6

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### Security

- » MAC address filtering
- » Enable/disable port
- » Storm control (broadcast and multicast types)
- » IEEE 802.1x LAN access control
- » Remote authentication through RADIUS
- » SSH for CLI and Telnet security
- » SSL for web security
- » Multi-level user account/password against unauthorized configuration
- » System log (remote/local)

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## Quality of Service (QoS)

- » Priority Queues: 4 queues per port
  - » Traffic classification based on IEEE 802.1p CoS, DSCP, WRR (Weighted Round Robin) and strict mode
  - » Rate Limiting (Ingress/Egress)
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## Layer 2 Features

- » Auto-negotiation for port speed and duplex mode
  - » Flow Control
    - • IEEE 802.3x full duplex mode
    - • Back-Pressure half duplex mode
  - » Redundant Protocol
    - • IEEE 802.1D Spanning Tree Protocol (STP)
    - • IEEE 802.1w Rapid Spanning Tree Protocol (RSTP)
    - • IEEE 802.1s Multiple Spanning Tree Protocol (MSTP)
  - » VLANs
    - • Port-based VLANs
    - • IEEE 802.1Q Tag VLANs (128 groups, 4096 VID)
    - • GVRP (GARP VLAN Registration Protocol)
    - • GMRP (GARP Multicast Registration Protocol)
  - » Link Aggregation
    - • Static Trunk (2 groups, support MAC base)
    - • IEEE 802.3ad Link Aggregation Control Protocol
  - » IGMP Snooping
    - • IGMP Snooping v1/v2/v3
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## Performance

- » Switching Capability: 7.2Gbps
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## Specifications

## Technology

### Standards

- • IEEE 802.3 10BASE-T
- • IEEE 802.3u 100BASE-TX/100BASE-FX
- • IEEE 802.3ab 1000BASE-T
- • IEEE 802.3z 1000BASE-SX/1000BASE-LX
- • IEEE 802.3x Full duplex and flow control
- • IEEE 802.1p QoS
- • IEEE 802.1Q Tag VLANs
- • IEEE 802.1w RSTP
- • IEEE 802.1x Port-based Network Access Control

### Forward and Filtering Rate

- • 14,880pps for 10Mbps
- • 148,810pps for 100Mbps
- • 1,488,100pps for 1000Mbps

### Packet Buffer Memory

- • 12M bits

### Processing Type

- • Store-and-Forward
- • Auto Negotiation
- • Half-duplex back-pressure and IEEE 802.3x full-duplex flow control
- • Auto MDI/MDIX

## Address Table Size

- • 16K MAC addresses
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## Power

### Input

- • Redundant power inputs: 12-48VDC (Terminal Block)

### Power Consumption

- • 8.06W 0.336A@24VDC

### Protection

- • Reverse polarity protection
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## Mechanical

### Casing

- • Metal Case
- • IP30

### Dimensions

- • 59 x 125 x 145mm (W x D x H)  
(2.32" x 4.92" x 5.71")

### Weight

- • 0.84Kg

### Installation

- • DIN-Rail
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## Interface

### Ethernet Port

- • 10/100BASE-TX: 16 ports
- • Gigabit: 0, 1 or 2 ports

### Console Port

- • Port: One DB9 RS-232 port

### LED Indicators

- • Per Unit: Power 1, Power 2
- • Per Port: Link/Activity (Green: Copper; Orange: Fiber)

### Alarm Contact

- • One relay output with current 0.6A@30VDC
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# Environment

## Operating Temperature

- -10 to 60°C (-14 to 140°F)  
Tested @ -20 to 70°C (-4 to 158°F)

## Storage Temperature

- -45 to 85°C (-49 to 185°F)

## Ambient Relative Humidity

- 5% to 95% (non-condensing)
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# Regulatory Approvals

## ISO

- Manufactured in an ISO 9001 facility

## Safety

- UL 61010 (pending)

## EMI

- FCC Part 15B Class A
- EN 61000-6-4
- EN 61000-3-2
- EN 61000-3-3

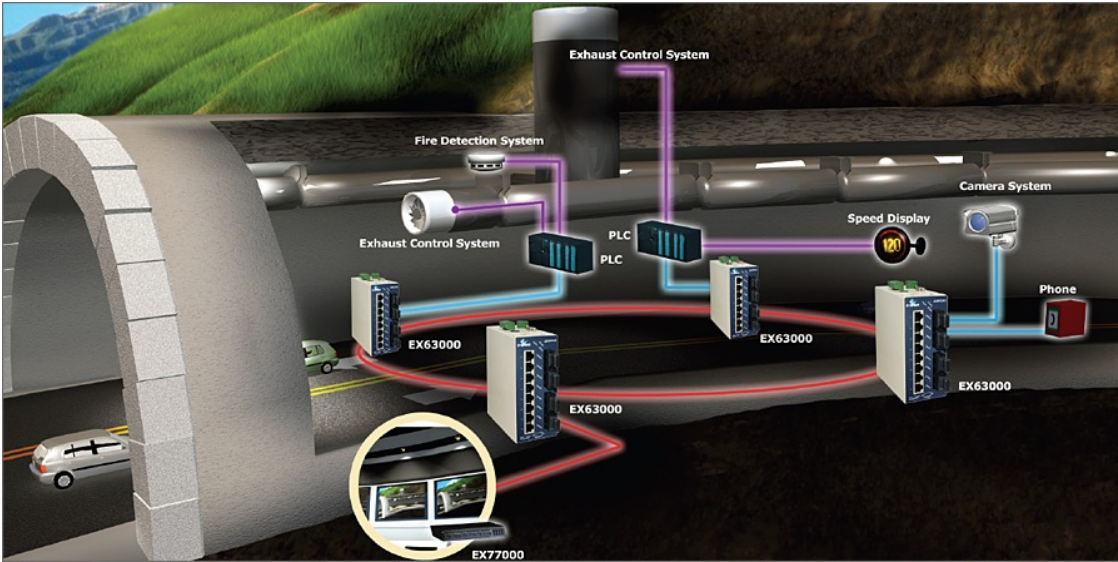
## EMS

- EN 61000-6-2
  - EN 61000-4-2 (ESD Standards)
  - EN 61000-4-3 (Radiated RFI Standards)
  - EN 61000-4-4 (Burst Standards)
  - EN 61000-4-5 (Surge Standards)
  - EN 61000-4-6 (Induced RFI Standards)
  - EN 61000-4-8 (Magnetic Field Standards)

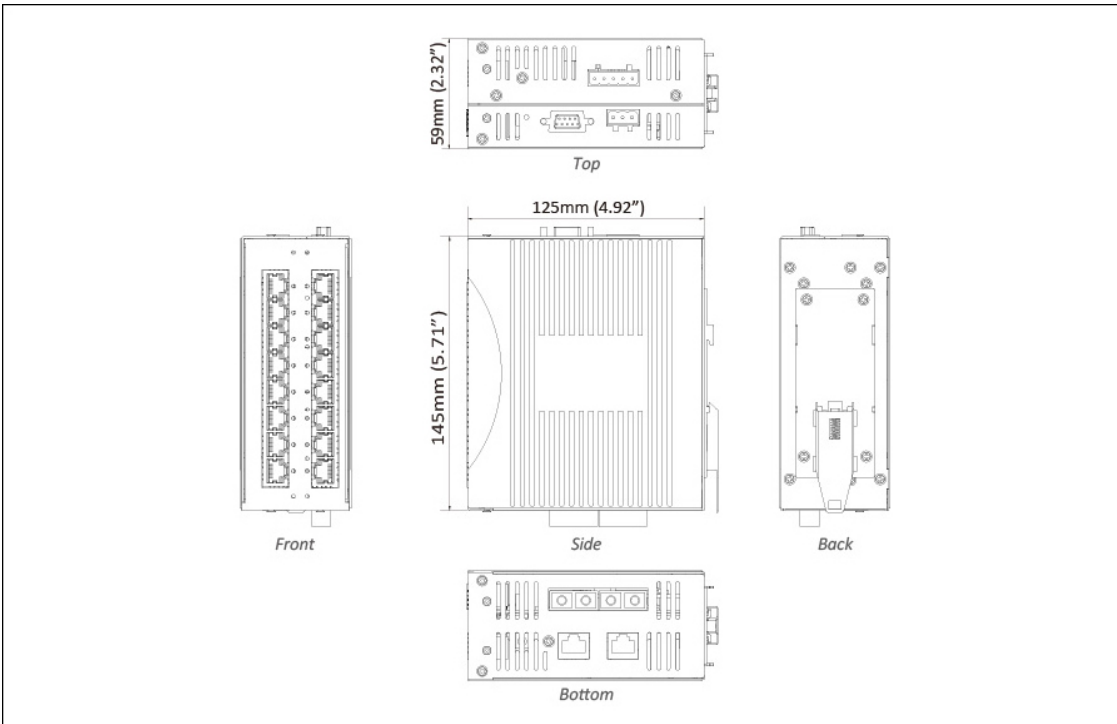
## Environmental Test Compliances

- IEC 60068-2-6 Fc (Vibration Resistance)
  - FED STD 101C Method 5007.1 (Free fall w/package)
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## Application



## Dimensions



## Ordering Info

### Model

EX63400-00B 16-port 10/100BASE-TX Industrial Managed Ethernet Switch

EX63402-0YB 16-port 10/100BASE-TX +2-port Gigabit Industrial Managed Ethernet Switch

\* DIN-Rail mounting kit included.

## Gigabit Port Options (Y)

- 1 10/100/1000BASE-TX (No Gigabit Fiber port supported)
- 3 Combo port: 10/100/1000BASE-TX with 1000BASE-SX (SC) - 550m
- 4 Combo port: 10/100/1000BASE-TX with 1000BASE-SX (SC) - 2Km
- 5 Combo port: 10/100/1000BASE-TX with 1000BASE-SX (ST) - 550m

A Combo port: 10/100/1000BASE-TX with 1000BASE-LX (SC) - 10Km  
B Combo port: 10/100/1000BASE-TX with 1000BASE-LX (SC) - 20Km

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## Optional Accessories

KP-AA96-480 Panel mounting Kits  
HDR-30-24 30W/1.5A DIN-Rail 24VDC Industrial Power Supply  
HDR-60-24 60W/2.5A DIN-Rail 24VDC Industrial Power Supply  
EX41-136046-X Power Supply 36W 12VDC with Open Wire  
(X) = 1: US, 2: EU, 3: UK, 4: AU, 5: JP, 6: SA

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