

ER59000 系列

強固級網管型 16埠10/100BASE M12 (8 x PoE) +2埠Gigabit LC 乙太網路交換器



產品亮點

Railway Oriented

- » Compliant with EN50155/EN50121-3-2/EN50121-4 railway applications

M12 Connector

- » Built-in 16-port 10/100BASE M12 plus 2-port Gigabit Copper/LC
- » 8-port PoE function with IEEE802.3at up to 30W per port

IP67 Rated Fully Managed Ethernet Switch

- » IP67 grade protection and rugged enclosure design

產品特色

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
 - » IEEE802.1ab LLDP (Link Layer Discovery Protocol)
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Security

- » MAC address filtering
 - » Enable/disable port
 - » Storm control (broadcast and multicast types)
 - » IEEE802.1x 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
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Quality of Service (QoS)

- » Priority Queues: 4 queues per port
 - » Traffic classification based on IEEE802.1p 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
 - IEEE802.3x full duplex mode
 - Back-Pressure half duplex mode
 - » Redundant Protocols
 - IEEE802.1D Spanning Tree Protocol (STP)
 - IEEE802.1w Rapid Spanning Tree Protocol (RSTP)
 - IEEE802.1s Multiple Spanning Tree Protocol (MSTP)
 - EtherWAN's Alpha-Ring network fault recovery (<15ms)
 - » VLANs
 - Port-based VLANs
 - IEEE802.1Q 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)
 - IEEE802.3ad Link Aggregation Control Protocol
 - » IGMP Snooping
 - IGMP snooping v1/v2/v3
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Performance

- » Switching Capability: 7.2Gbps
 - » Packet Buffer Size: 2M bits
 - » MAC Address Table: 8K
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產品規格

Technology

Standards

- IEEE802.3 10BASE-T
- IEEE802.3u 100BASE-TX/100BASE-FX
- IEEE802.3ab 1000BASE-T
- IEEE802.3z 1000BASE-SX/1000BASE-LX
- IEEE802.3x Full duplex and flow control
- IEEE802.1p QoS
- IEEE802.1Q Tag VLANs
- IEEE802.1w RSTP
- IEEE802.1x Port-based Network Access Control
- IEEE802.1s MSTP
- IEEE802.3ad LACP
- IEEE802.3af/at Power over Ethernet (PoE)

Forward and Filtering Rate

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

Packet Buffer Memory

- 2M bits

Processing Type

- Store-and-Forward
- Half-duplex back-pressure and IEEE802.3x full-duplex flow control

Address Table Size

- 8192 MAC addresses

Power

Input

- Redundant power inputs:

M23: 12 - 48VDC (non-PoE model)

M23: 55 (52 to 57) VDC

Power Consumption

- Device: Max. 11W (without PoE)
- PoE power budget (depends on power input): 240W Max

PoE Technology

- Alternative A
- Pins 1/2(+), 3/6(-)

PoE Power Output

- Port 1 to 8: IEEE802.3at, up to 30W/port, 47 - 57VDC

Protection

- Reverse polarity protection

Mechanical

Casing

- Die-cast aluminum
- IP67

Dimensions

- 258mm (W)x 228mm(D)x 83.5mm(H)
(10.1"(W) x 8.9"(D) x 3.2"(H))

Weight

- 2.3Kg (5.07lbs)

Installation

- Panel mounting

Interface

Ethernet Port

- 10/100BASE-M12 D-Code 4-Pin Female: 16 ports
- Gigabit-TX/LC: 2 ports

Console Port

- Port: M12 RS232 Console

LED Indicators

- Per Unit: Power 1 (Green)

LED Indicators

- Per Unit: Power 1 (Green)
Power 2 (Green)
- Per Port: Link/Activity (Green)
- Per PoE Port (Port 1 to 8 for PoE model only): PoE (Green)

Alarm Contact

- One relay M12 A-Code 4-Pin Female output with current
1A @ 250 VAC

Environment

Operating Temperature

- -40°C to 75°C (-40°F to 167°F)
Tested @ -40°C to 85°C (-40°F to 185°F)

Storage Temperature

- -45°C to 85°C (-49°F to 185°F)

Ambient Relative Humidity

- 5% to 95% (non-condensing)

Regulatory Approvals

ISO

- Manufactured in an ISO9001 facility

EMI

- FCC Part 15B, Class A
- EN61000-6-4
- EN55022
- EN55011 (for EN50155)

EMS

EN61000-6-2

- EN61000-4-2 (ESD Standards)
- EN61000-4-3 (RFI Standards)
- EN61000-4-4 (Burst Standards)
- EN61000-4-5 (Surge Standards)
- EN61000-4-6(Induced RFI Standards)
- EN61000-4-8 (Magnetic Field Standards)
- EN61000-4-9 (Pulsed magnetic field)

Environmental Test Compliance

IEC61373 (Vibration) for EN50155

IEC61373 (Shock) for EN50155

IEC600680-2-32 Ed (Free fall)

Industrial Compliance

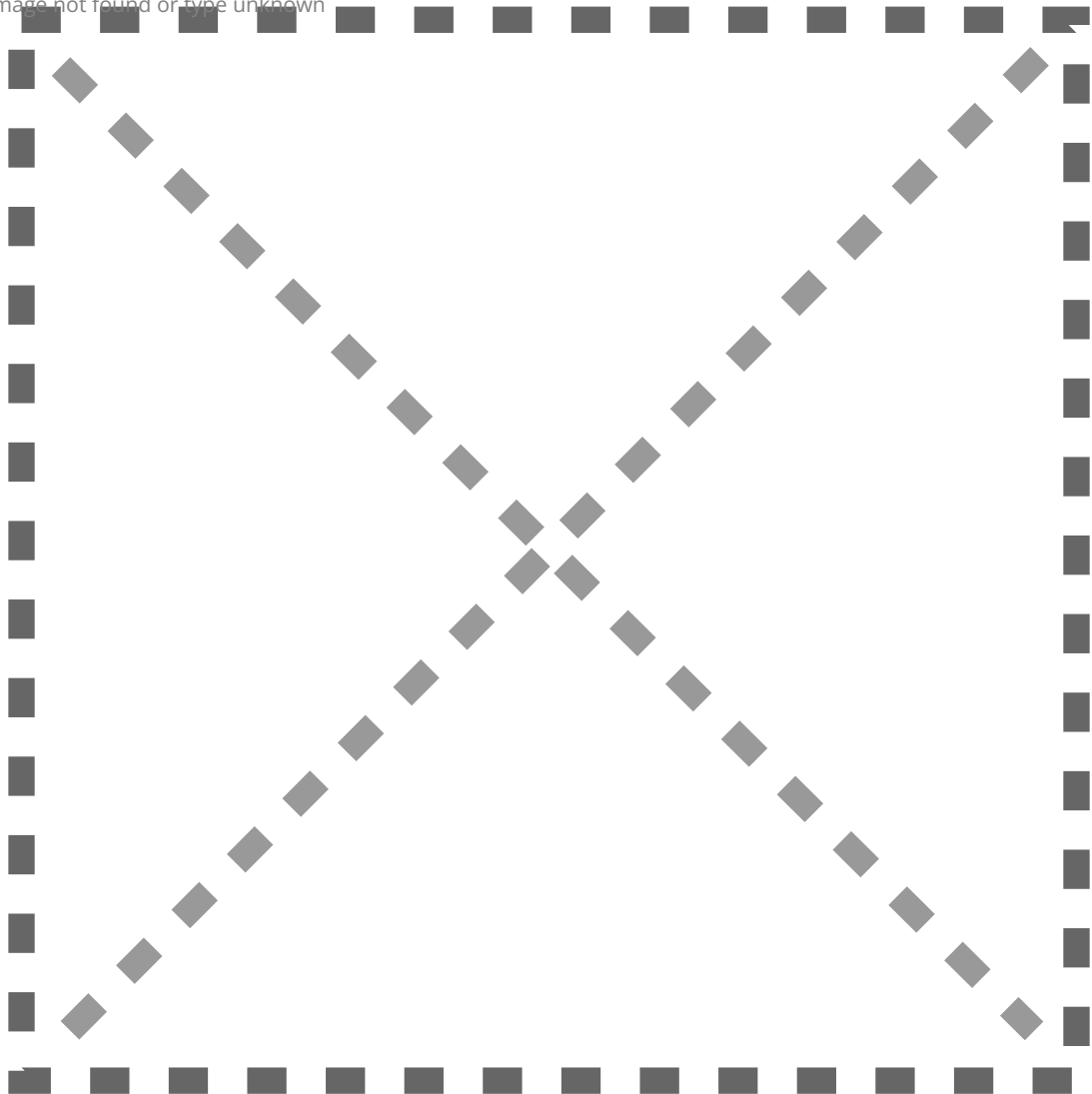
EN50155

EN50121-3-2

EN50121-4

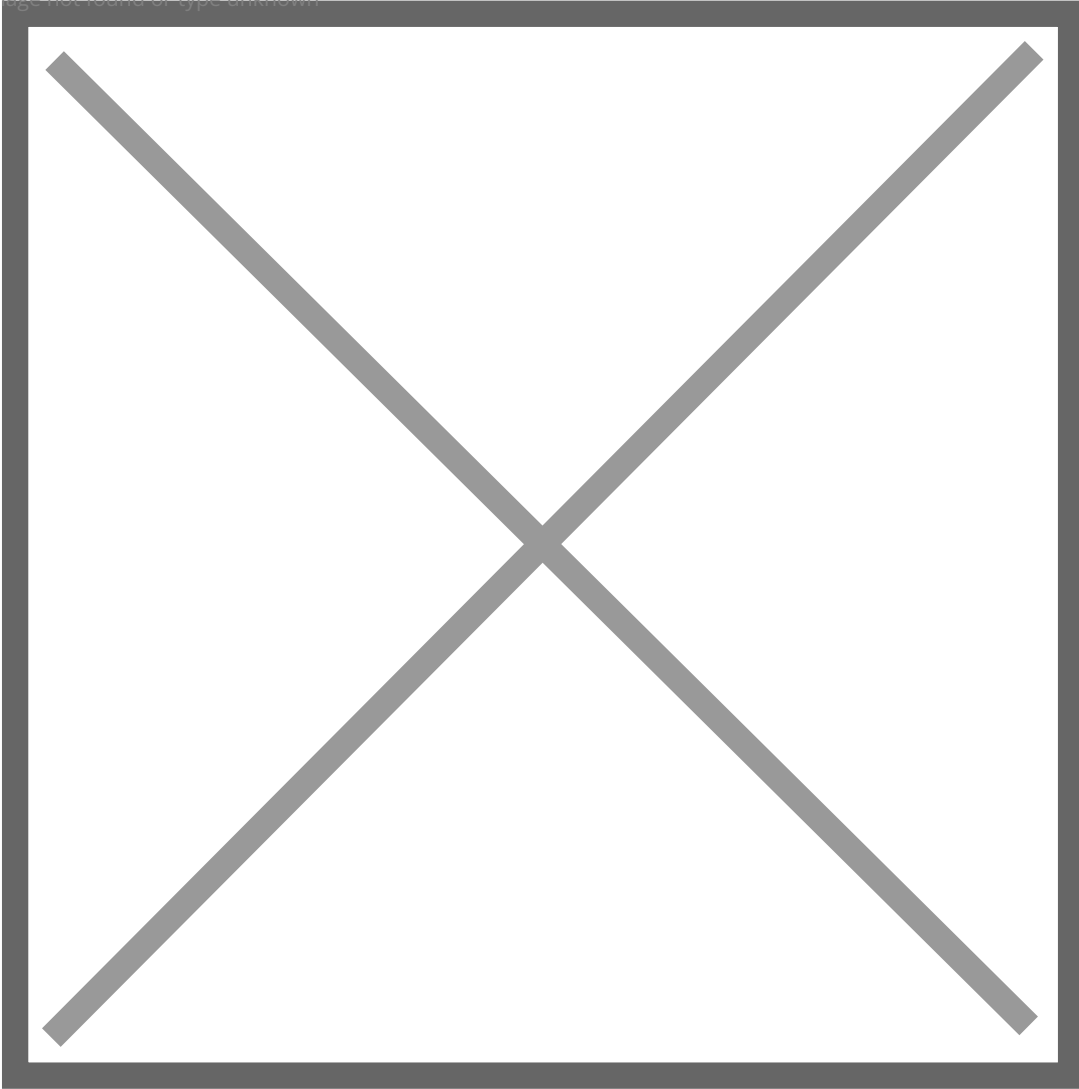
產品應用圖

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產品尺寸圖

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訂購型號

Model

ER59402-20YZP	Hardened Managed 16-port 10/100BASE M12 (8 x PoE) with 2-port Gigabit LC Ethernet Switch
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* Panel mounting kit included

Gigabit Port Options (Y)

1	10/100/1000BASE-TX
E	1000BASE-SX(LC) - 550m
M	1000BASE-SX (LC) - 10Km
N	1000BASE-LX (LC) - 20Km

* More Gigabit options also available upon request

