EG99000 系列

強固級網管型 24埠10/100/1000BASE-T (8埠Combo SFP) +4埠10G SFP+ L3乙太網路交換器

產品亮點

強固等級設計

» 寬溫操作 (-40到75°C)
» 堅固的金屬外殼設計，可有效避免高溫/高濕環境導致材質老化
» 抗高衝擊和電磁波干擾

智慧化管理&遠端安全存取介面

» 支援QoS, VLAN, ACL 及 RADIUS等優化網路性能

L3擴充能力

» 路由協定: RIP、OSPF for Layer 3 交換能力

產品介紹

EG99000為一款工業級Gigabit Layer 3交換器，24埠Gigabit乙太網路連接埠和4個10G超高速乙太網路連接埠有效提供高頻寬上傳或互連設計，搭配Dual-rate SFP光纖連接埠，可大幅增加未來網路架構擴充彈性。Layer 3功能支援IP路由、跨網段通訊以及VLANs等功能。

EG99000的IP路由功能，包括靜態路由、RIP v1 & v2, 和 OSPF v2，這些路由協定可使網路分配及路由控制工具同步運作，包括IP prefix-list和route-map。

EG99000通過EMI測試可抗2倍以上電磁干擾，強固等級設計，可在-40到75°C寬溫環境下穩定運作，透過內建的系統斷線回復機制，如VRRP和雙備援電源輸入，可使網路或系統斷線時間最小化，適用於大型的工業連線環境。

EtherWAN — "**When Connectivity is Crucial.**"

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)
» Port mirroring: TX/RX and both
» NTP (Network Time Protocol) time synchronization
» IEEE 802.1ab LLDP (Link Layer Discovery Protocol)
» IPv4/IPv6

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
» ACL (Up to 4096 entries)

Quality of Service (QoS)

» Priority Queues: 8 queues per port
» Traffic classification based on IEEE 802.1p CoS, DSCP, WRR (Weighted round robin) and strict mode
» Rate Limiting (Ingress/Egress)

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 Protocols
 • IEEE 802.1D Spanning Tree Protocol (STP)
 • IEEE 802.1w Rapid Spanning Tree Protocol (RSTP)
 • IEEE 802.1s Multiple Spanning Tree Protocol (MSTP)
» VLANs
 • IEEE 802.1Q Tag VLANs
 • GVRP (GARP VLAN Registration Protocol)
 • GMRP (GARP Multicast Registration Protocol)
» Link Aggregation
 • Static Trunk
 • IEEE 802.3ad Link Aggregation Control Protocol
» IGMP Snooping

• IGMP Snooping v1/v2/v3

Layer 3 Features IPv4

» Unicast Routing
  • Static Routing (1K)
  • RIP v1/v2
  • OSPF v2
» Multicast Routing
  • PIM-DM
  • PIM-SM
» Routing Redundancy
  • VRRP

Layer 3 Features IPv6

» IPv6 Unicast Routing*
  • RIPng
  • OSPF v3
* Available in Q4 2019
» IPv6 Multicast Routing*
  • PIM-DM
  • PIM-SM
* Available in Q4 2019
» IPv6 Routing Redundancy*
  • VRRP v3
* Available in Q4 2019

Performance

» 128Gbps switching fabric
» Forwarding rate: 95.23Mpps
» 4GB DDR3 SDRAM and 2GB Flash Memory
» Total VLAN entry size: 4K
» With a maximum Ethernet frame size of 12Kbytes (Jumbo Frames)
» Configurable up to 24,000 unicast routes and up to 1,000 multicast routes at L2 managed level
» Configurable up to 8,000 unicast routes and up to 8,000 multicast routes at L3 (IPv4) managed level
» Configurable up to 2,000 unicast routes at L3 (IPv6) managed level

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產品規格

技術

標準
- 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
- 14,880,952pps for 10Gbps

緩衝記憶體封包
- 32M bits

傳輸型式
- Store-and-Forward
- Auto-Negotiation
- IEEE 802.3x full-duplex flow control
- Auto MDI/MDIX

MAC地址表
- 24K

電源

輸入電壓
- ±48VDC Redundant (Terminal Block)
- 100-240VAC Redundant (Terminal Block)
- 100-240VAC Redundant (AC Inlet)

電力功耗
- 75W Max.

機構

機殼
- 金屬材質

• IP30

尺寸
• Redundant Power:
  442 x 375.5 x 44.2mm (W x D x H)
  (17.4" x 14.8" x 1.74")

重量
• 5.6kg (12.3lbs)

安裝方式
• Rack mounting

介面

乙太網路埠
• 10/100/1000BASE-T: 24 or 16 ports
• 1000BASE-SFP: 8 ports
• 10G SFP+: 4 ports

Console Port
• One DB-9 RS-232 port
• One RJ45 managed port

USB Port
• One USB port (Type A connector)

Alarm Contact
• One relay output with current 0.6A/30VDC

Digital Inputs
• Two Digital inputs
• +13 to +30V for state "1"
• 0 to +3V for state "0"
• Max. Input Current: 8 mA

LED 指示燈號
• Per Unit: Power1, Power2, Alarm
• Per Port: Link/Activity (Green)

環境

工作溫度
• -40 to 75°C (-40 to 167°F)

儲存溫度
• -45 to 85°C (-49 to 185°F)

工作濕度

• 5% to 95% (無凝結)

通過認證

ISO
• Manufactured in an ISO 9001 facility

EMI
FCC Part 15B Class A
VCCI Class A
EN 61000-6-4

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)
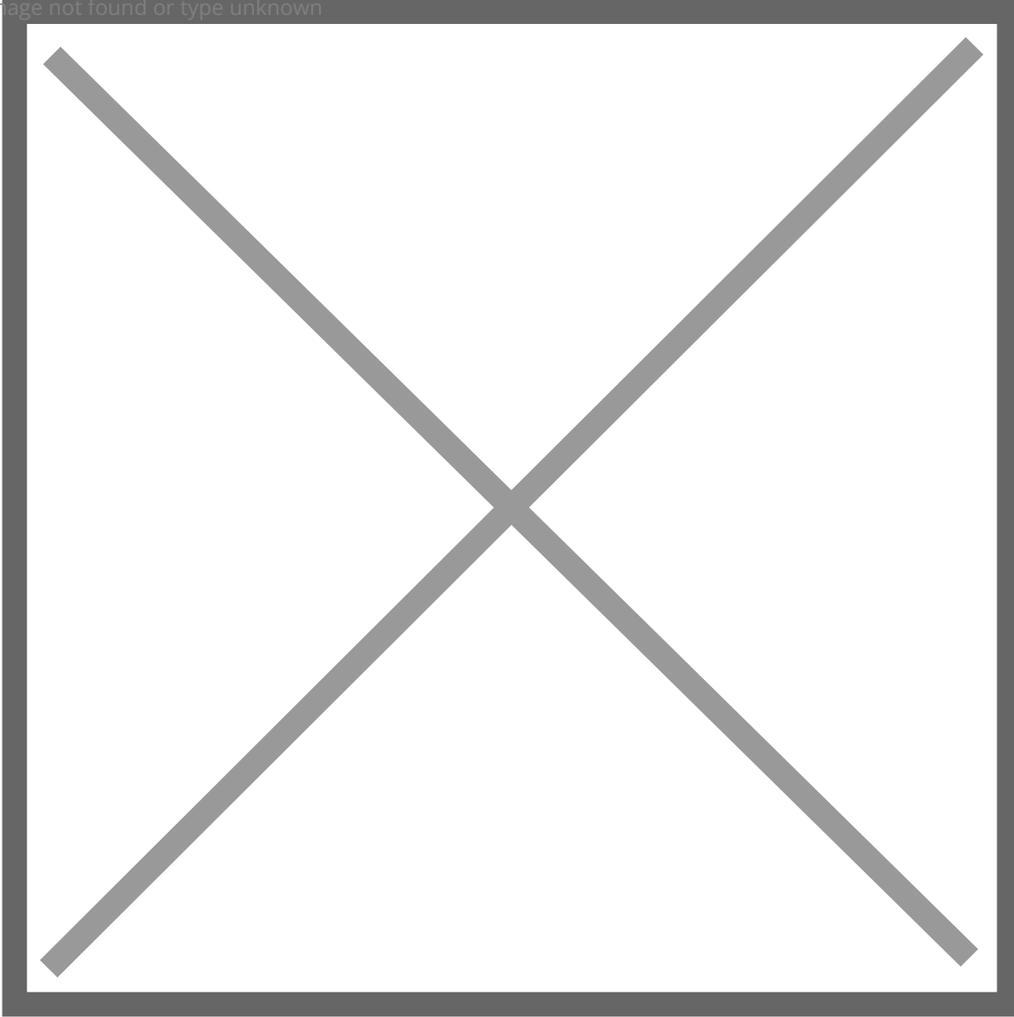• EN 61000-4-8 (Magnetic Field Standards)

Environmental Test Compliance
IEC 60068-2-6 Fc (Vibration Resistance)
IEC 60068-2-27 Ea (Shock)
FED STD 101C Method 5007.1 (Free fall w/package)
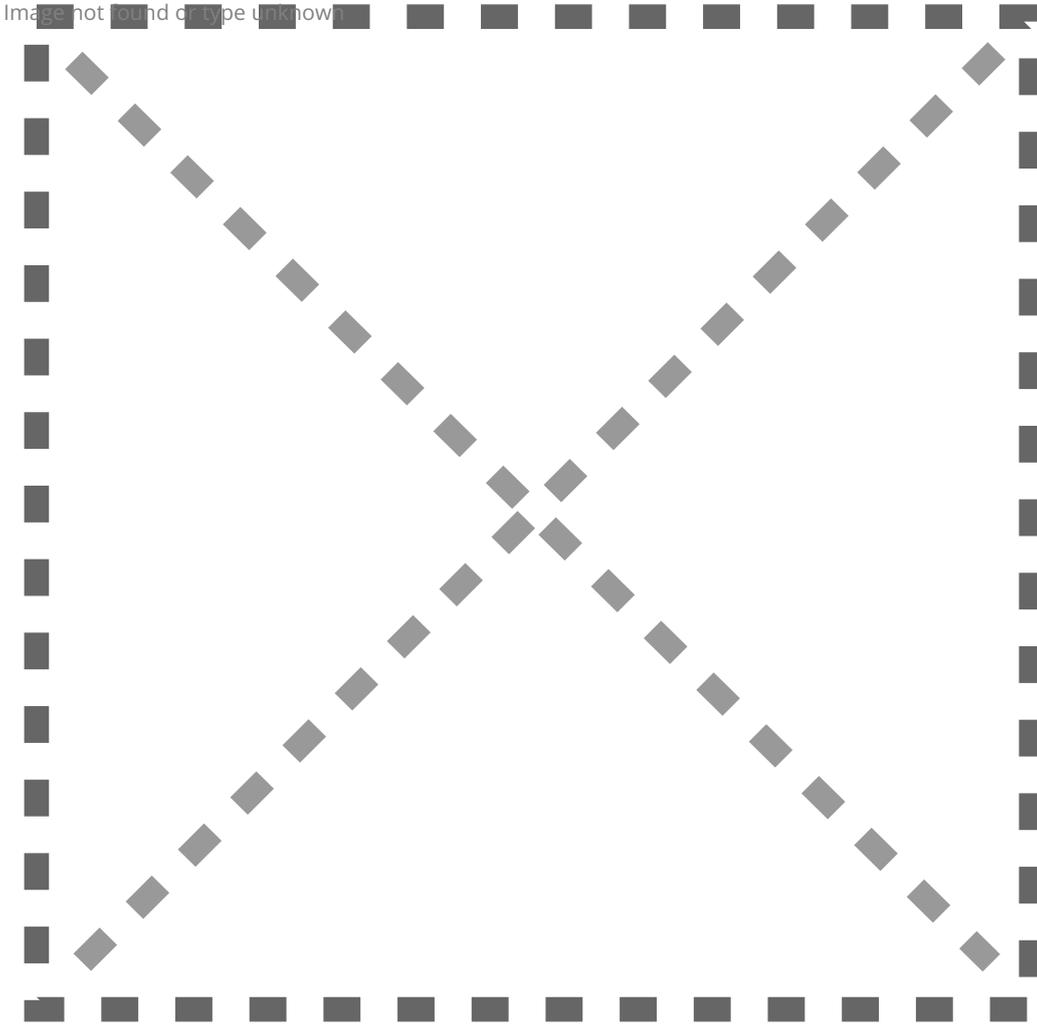
產品應用圖

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產品尺寸圖

訂購型號

型號

EG99424-8VZ	16-port 10/100/1000BASE-TX +8-port 1000BASE SFP Combo +4-port 10G SFP+ Hardened Layer 3 Managed Ethernet Switch

* Rack mounting kit included.

Power Input Interface (Z)

TR	±48VDC Redundant (Terminal Block)
WR	100-240VAC Redundant (Terminal Block)
CR	100-240VAC Redundant (AC Inlet)