EX78162 系列

強固級網管型 16埠10/100BASE PoE +2埠Gigabit 乙太網路交換器



產品介紹

本產品自2020年5月15日起停產。 請點選 此處 尋找替代產品。

EX78162系列強固乙太網路交換器，採鋁軌式安裝，提供16個10/100BASE PoE連接埠及兩個Gigabit LC光纖埠。IEEE 802.3at PoE網路埠，每埠最高可支援30W，總供電瓦數為240W，可廣泛應用於許多終端受電(PD)設備，例如PTZ 球型攝影機、無線基地台及軌旁通訊設備等。

透過益網獨家技術Alpha-Ring環狀網路備援機制，可在網路斷線時迅速啟動備援機制，於15毫秒內恢復連線通訊。EX78162系列具備完整管理功能，包含port security, IGMP snooping, port-based VLAN, GARP 協定, link aggregation；使用者可透過網頁瀏覽, telnet, SSH, SNMP, RMON, TFTP,和RS-232 console 管理介面，執行各種等級的網路管理。

EX78162系列專為嚴峻戶外環境設計打造，工業等級設計，可承受強力的落摔衝擊、防震動及抗電磁波干擾，更可在 -40 到 75°C 寬溫環境下穩定運作。

EtherWAN — "When Connectivity is Crucial."

產品亮點

PoE連接埠

» 1-16埠支援IEEE 802.3at /af PoE供電標準

強固等級設計

» 寬溫操作(-40 到75°C)
» 無風扇和堅固的金屬外殼設計，可有效避免高溫及高濕度環境導致材質老化
» 抗震動及抗電磁波干擾

智慧化管理功能

» 完整的網路管理效能：QoS, VLAN,ACL和支援RADIUS

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
» SFP transceivers support Digital Diagnostics Monitoring (DDM)
» NTP (Network Time Protocol) time synchronization
» IEEE 802.1ab LLDP (Link Layer Discovery Protocol)

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)

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)

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)
- EtherWAN'sAlpha-Ring network fault recovery (<15ms)

» 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

» Performance
- Switching Capability: 7.2Gbps
- Packet Buffer Size: 2M
- MAC Address Table: 8K

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
• IEEE 802.3af/at Power over Ethernet (PoE)

Forward and Filtering Rate

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

緩衝記憶體封包

• 2M bits

傳輸型式

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

MAC地址表

• 8192 MAC addresses

電源

輸入電壓

• Redundant power inputs
  Teminal Block: 52–57VDC

電力功耗

• Device: Max. 15W (without PoE)
• PoE Power Budget (depends on power input): 240W Max.

PoE Technology

• Alternative B
Pins 7/8(-), 4/5(+)

PoE Power Output

• Port 1 to 16 support PoE
• IEEE 802.3af: up to 15.4W/port, 47-57VDC
• IEEE 802.3at: up to 30W/port, 52-57VDC

Protection

• Reverse polarity protection

機構

機殼

• 金屬材質
• IP30

尺寸

• 71.4 x 140 x 170mm (W x D x H)
(2.85" x 5.6" x 6.8")

重量

• 1.44 Kg (3.17lbs.)

安裝方式

• DIN-Rail

介面

乙太網路埠

• 10/100BASE-TX (PoE): 16 ports
• Gigabit SFP: 2 ports

Console Port

• Port: One DB9 RS-232 port

Alarm Contact

• One relay output with current 1A/250VAC

LED 指示燈號

• Per Unit: Power
• Per Port: Link/Activity (Green)
• Per PoE Port: PoE (Orange)

環境

工作溫度

• -40 to 75°C (-40 to 167°F)
Tested @ -40 to 85°C (-40 to 185°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
EN 61000-3-2
EN 61000-3-3
EN 61000-6-4

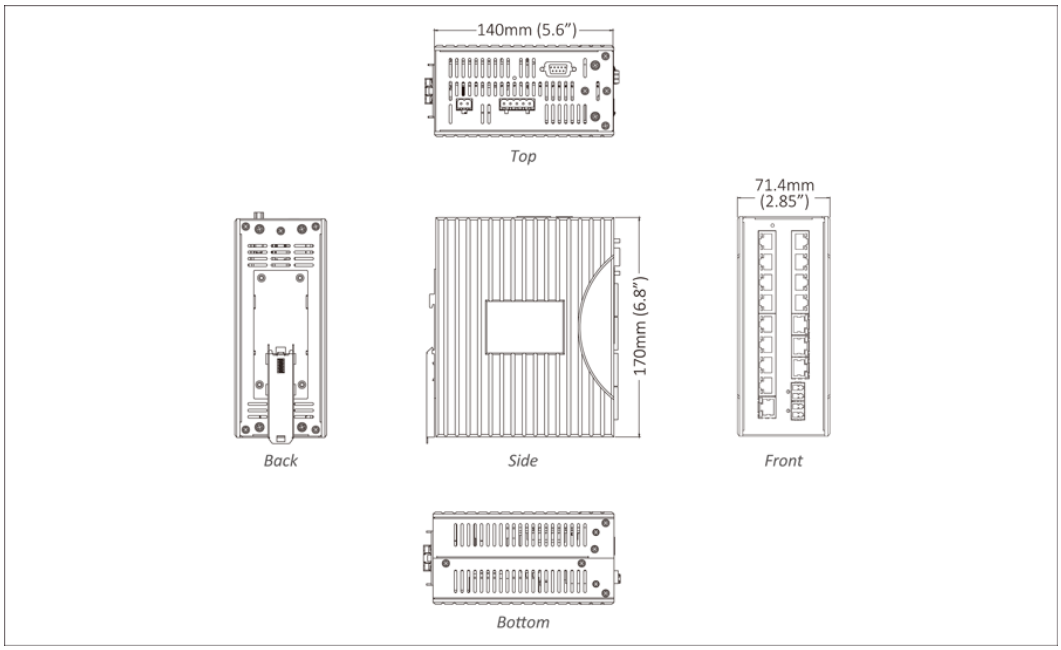
EMS

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)
IEC 60068-2-27 Ea (Shock)
IEC 60068-2-32 Ed (Free fall)

產品尺寸圖



訂購型號

型號

EX78162-0VB	16-port 10/100BASE-TX PoE +2-port Gigabit SFP Hardened Managed Ethernet Switch

* DIN-Rail mounting kit included.

Optional Accessories

SDR-480-48	480W/10A DIN-Rail 48VDC Industrial Power Supply

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