

## EX24402

網管型 16埠10/100BASE PoE + 2埠Gigabit SFP combo 乙太網路交換器



### 產品介紹

本產品自2020年8月28日起停產。請點選 [此處](#) 尋找替代產品。

EX24402系列為網管型、1U機架式安裝設計，內建16個10/100BASE-T PoE連接埠及2個100/1000 SFP combo光纖埠可與核心網路串連。PoE/PSE埠符合IEEE 802.3af供電標準，EX24402系列PoE網路埠，每埠最高可支援15.4W，總供電瓦數為195W，可廣泛應用於許多終端受電(PD)設備，例如IP攝影機、無線基地台、IP電話等設備。

EX24402系列內搭配益網獨家技術Alpha-Ring環狀網路備援機制，可在網路發生斷線時迅速啟動備援機制，於小於15毫秒內便可快速恢復連線通訊。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，使複雜的專案規劃事半功倍。

EtherWAN — "When Connectivity is Crucial."

## 產品亮點

### PoE連接

- » 1-16埠支援IEEE 802.3af PoE供電標準
- » 支援兩個Gigabit SFP combo埠

### 智慧化管理功能

- » 完整的網路管理效能: QoS、VLAN和PoE scheduling，支援益網獨家技術Alpha-Ring環狀網路備援機制，小於15毫秒內便可快速恢復連線通訊。

### 遠端存取控制

- » 支援IEEE 802.1x,和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
  - » NTP (Network Time Protocol) time synchronization
  - » IEEE 802.1ab LLDP (Link Layer Discovery Protocol)
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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)
  - Supports EtherWAN's Alpha-Ring topology for less than 15ms fault recovery time
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## Performance

- » Switching Capability: 7.2Gbps
  - » Packet Buffer Size: 2M
  - » MAC Address Table: 8192
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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
- IEEE 802.3af 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

- 100-240VAC, 50/60Hz

#### 電力功耗

- Max. 12W (without PoE)
- PoE power budget (depends on power input): 195W

### PoE Technology

- Alternative B  
Pins 7/8(+), 4/5(-)

### PoE Power Output

- IEEE 802.3af: up to 15.4W/port

### Protection

- Overload current protection
  - Reverse polarity protection
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## 機構

### 機殼

- 金屬材質
- IP30

### 尺寸

- 443.6 x 285 x 44mm (W x D x H)  
(17.5" x 11.2" x 1.73")

### 重量

- 3.8Kg (8.38lbs.)

### 安裝方式

- Rack mounting
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## 介面

### 乙太網路埠

- 10/100BASE-TX: 16 ports
- 100BASE-FX: N/A
- Gigabit: 2 ports

### Console Port

- Port: One DB9 RS-232 port

### LED 指示燈號

- Per Unit: Power 1
  - Per PoE Port: PoE (Amber)
  - Per Port: Link/Activity (Green), Speed (Green)
- 

## 環境

### 工作溫度

- 0 to 45°C (32 to 113°F)

### 儲存溫度

- -10 to 70°C (14 to 158°F)

### 工作濕度

- 5% to 95% (無凝結)
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## 通過認證

### ISO

- Manufactured in an ISO 9001 facility

### EMI

FCC Part 15B Class A

EN 61000-6-4

EN 55022

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 Compliance

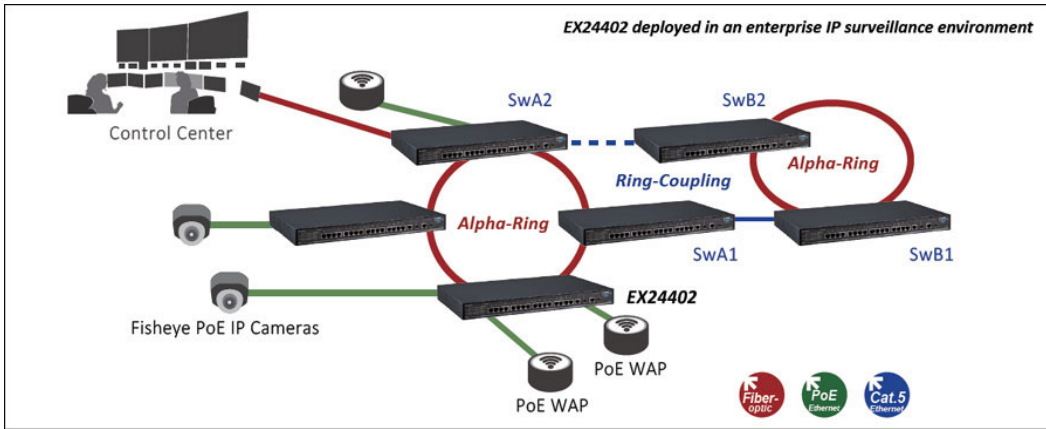
IEC 60068-2-6 Fc (Vibration Resistance)

IEC 60068-2-27 Ea (Shock)

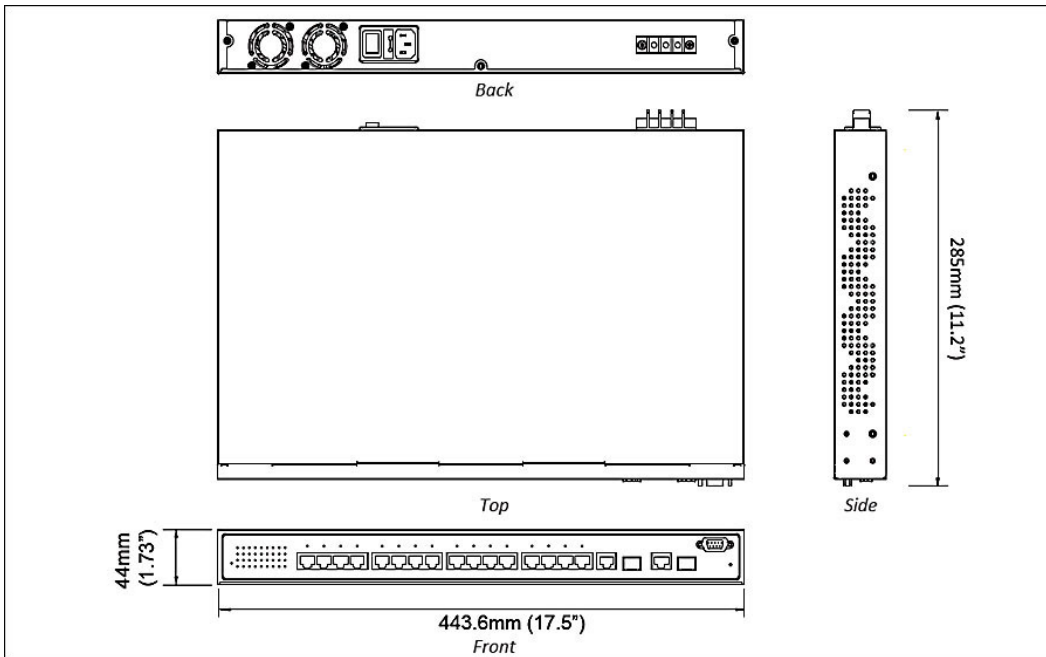
FED STD 101C Method 5007.1 (Free fall w/package)

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## 產品應用圖



## 產品尺寸圖



## 訂購型號

### 型號

EX24402-0VCU

16-port 10/100BASE PoE with 2-port Gigabit SFP Combo Managed Ethernet Switch





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