EX83304 系列

IEC 61850-3/IEEE 1613 Lite L3 12埠10/100BASE-TX +4埠Gigabit 強固級網管型 乙太網路交換器



產品介紹

本產品自2026年7月28日起停產。 請點選此處 尋找替代產品

EX83304 系列是一款專為嚴峻戶外環境打造的強固級乙太網路交換器，提供高達 12 個 10/100BASE-TX + 4 個 Gigabit SFP 埠。它搭配益網獨家技術 Alpha-Ring 環狀網路備援機制，可以在網路發生斷線時迅速啟動備援機制，並於 15 毫秒內恢復連線。此外，它還具備完整的管理功能，包括 Port Security、IGMP Snooping、VLANs、GARP 協定、Link Aggregation 和 ACL，使用者可以透過網頁瀏覽 Telnet、SSH、SNMP、RMON、TFTP 和 RS-232 Console 管理介面。

EX83304 系列支援多種功能，例如 MSTP、QoS、靜態路由和 RIP 路由協定等，可以實現更靈活和可靠的網路路由，控制網路流量，提高網路效能和安全性。此外，它符合 IEC 61850 & IEEE 1613 標準，可以在高 EMI 環境及 -40 到 75°C 寬溫環境下穩定運作，支援 IPv6，讓使用者可以適應未來網路的發展趨勢。

EtherWAN — "When Connectivity is Crucial."

產品亮點

高頻寬彈性配置

8 或 12 個 10/100TX 高速連接埠
多達 4 個 Gigabit 光纖上行鏈路連接埠
全雙工運行的全容量交換

認證規範

IEC 61850-3 / IEEE 1613 變電站認證
NEMA TS2 規範
UL 安全認證

強固等級適用於不通風的惡劣環境

-40 至 75°C (-40 至 167°F) 的寬工作溫度範圍
無風扇設計
高衝擊、耐熱和電氣干擾抵抗力

管理/安全功能

連接埠控制
支援 RADIUS 優化網路安全機制
使用 eVue ™ 和 eLite ™ 設定和監控

簡配第 3 層網管功能

靜態路由、RIP v1/v2 , 和 OSFP
VRRP 虛擬路由器備援協定
廣播流量減輕

服務支援

提供技術支援
免費韌體升級和通知
有限終身保固

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)

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 and TACACS+

SSH for CLI and Telnet security

SSL for web security

System log (Remote/Local)

ACL

Multi-level user account/password against unauthorized configuration

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's Alpha-Ring network fault recovery

VLANs

IEEE 802.1Q Tag VLANs (128 groups, 4096 VID)

GVRP (GARP VLAN Registration Protocol)

GMRP (GARP Multicast Registration Protocol)

Link Aggregation

Static Trunk (4 groups, support MAC base)

IEEE 802.3ad Link Aggregation Control Protocol

IGMP Snooping

IGMP Snooping v1/v2/v3

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 3 Features

IP Packet Routing

Maximum number of routes in hardware: 64 entries

OSPF

RIP v1/v2

Static routing

Routing Redundancy

VRRP

產品規格

Technology

Standards

IEEE 802.3 10BASE-T

IEEE 802.3u 100BASE-TX/100BASE-FX

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

Interface

Ethernet Port

10/100BASE-TX: 8 or 12 ports

Gigabit SFP: 2/4 ports

Console Port

Port: One DB9 RS-232 port

Alarm Contact

One relay output with current 0.6A/30VDC

LED Indicators

Per Unit: Power 1, Power 2

Per Port: Link/Activity (Green)

Environment

Operating Temperature

-40 to 75°C (-40 to 167°F)

Tested @ -40 to 85°C (-40 to 185°F)

Storage Temperature

-45 to 85°C (-49 to 185°F)

Ambient Relative Humidity

5% to 95% (non-condensing)

Power

Input

Redundant power inputs:Terminal Block: 12-48VDC

Power Consumption

17.28W Max. 1.44A@12VDC, 0.67A@24VDC

Protection

Reverse polarity protection

Mechanical

Casing

Aluminum Case

IP30

Dimensions

72 x 140 x 170mm (W x D x H) (2.8" x 5.5" x 6.7")

Weight

1.4Kg (3.09lbs.)

Installation

DIN-Rail

Regulatory Approvals

ISO

Manufactured in an ISO 9001 facility

Safety

UL 61010

EMI

FCC Part 15B Class A

VCCI 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 Compliance

IEC 60068-2-6 Fc (Vibration)

IEC 60068-2-27 Ea (Shock)

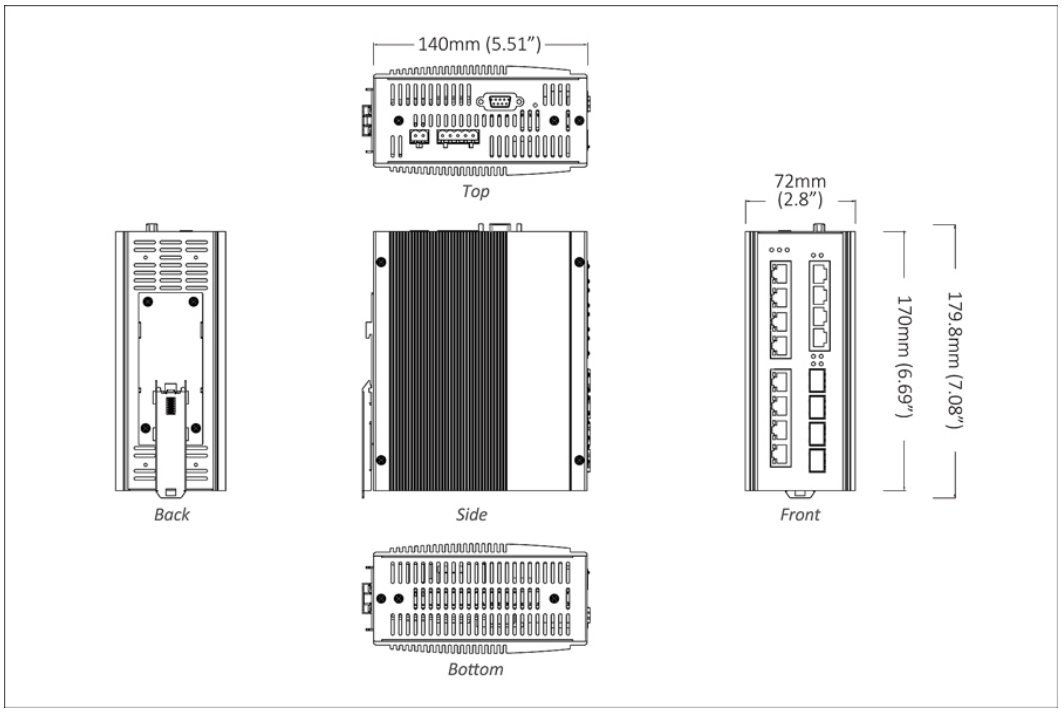
FED STD 101C Method 5007.1 (Free fall w/package)

Industrial Compliance

IEEE 61850-3/IEEE 1613

NEMA TS2

產品尺寸圖



訂購型號

Model

EX83304-0VB	12-Port 10/100BASE-TX +4-port Gigabit SFP Hardened Managed Ethernet Switch
EX83204-0VB	8-Port 10/100BASE-TX +4-Port Gigabit SFP Hardened Managed Ethernet Switch
EX83202-0VB	8-Port 10/100BASE-TX +2-Port Gigabit SFP Hardened Managed Ethernet Switch

* DIN-Rail mounting kit included.

Optional Accessories

HDR-30-24	30W/1.5A DIN-Rail 24VDC Industrial Power Supply
HDR-60-24	60W/2.5A DIN-Rail 24VDC Industrial Power Supply
EDR-75-24	75W/3.2A DIN-Rail 24VDC Industrial Power Supply
EB-232	Configuration Backup and Restoration Tool for EX83304 switch with firmware 2.02.2 or above

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