

EX83304 シリーズ

IEC 61850-3/IEEE 1613 準拠 Lite L3 広範囲動作温度対応産業用/管理型 12ポート 10/100BASE +4
ポート ギガビット イーサネット スイッチ



特長

Versatile Connectivity

» Provides flexibility 8 or 12 10/100BASE-T(X) ports and 2 or 4 Gigabit SFP ports

Intelligent Management

- » Optimize network performance with QoS, VLAN, ACL and RADIUS support
- » Unique Dying Gasp feature provides immediate notification of switch power off with SNMP

Lite Layer 3 Routing Features

- » Supports OSPF, RIP v1/v2, static route
- » Maximum number of routes in hardware: 64 entries
- » Supports Virtual Router Redundancy Protocol (VRRP)

概要

EtherWAN's EX83304 Series is a hardened DIN-Rail mounted 16-port managed switching platform, combining high performance switching backbone with robust and secure management features required for mission-critical and harsh environments where sustained connectivity is crucial.

The EX83304 Series is equipped with maximum 12 x 10/100BASE-TX, in combination with 4 Gigabit SFP ports. The EX83304 Series is equipped with EtherWAN's Alpha-Ring self-healing technology, providing outstanding fault recovery time, making it ideal for applications intolerant to interruption. Users are able to access management features such as port security, IGMP snooping, port-based VLAN, GARP protocols, link aggregation and ACL, via web browser, telnet, SSH, SNMP, RMON, TFTP, and RS-232 console interfaces.

With the hardened specifications, the EX83304 Series is designed to operate at -40 to 75°C in harsh environments, and is IEC 61850 & IEEE 1613 certified, capable of operating under high EMI environments, making it an ideal choice for harsh applications.

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

機能

マネージメント

- » インターフェース
 - 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
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セキュリティ

- » 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
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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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レイヤー 2 特徴

- » 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
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レイヤー 3 特徴

- » IP Packet Routing
 - Maximum number of routes in hardware: 64 entries
 - OSPF
 - RIP v1/v2
 - Static routing
 - » Routing Redundancy
 - VRRP
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仕様

技術規格

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
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電源

電源電圧

- Redundant Power Inputs:
Terminal Block: 12-48VDC

消費電力

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

保護

- 逆極性保護
-

物理仕様

筐体

- アルミケース
- IP30

寸法

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

重量

- 1.4Kg (3.09lbs.)

取付方法

- DIN-Rail
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インターフェース

イーサネットポート数

- 10/100BASE-TX: 8 or 12 ports
- Gigabit SFP: 2/4 ports

コンソールポート

- Port: One DB9 RS-232 port

アラーム接点

- リレー出力 許容電流 0.6A/30VDC

LED 表示

- Per Unit: Power 1, Power 2
 - Per Port: Link/Activity (Green)
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環境条件

使用温度範囲

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

保存温度範囲

- -45 to 85°C (-49 to 185°F)

使用湿度範囲

- 5% to 95% (結露なきこと)
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信頼性認証

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)

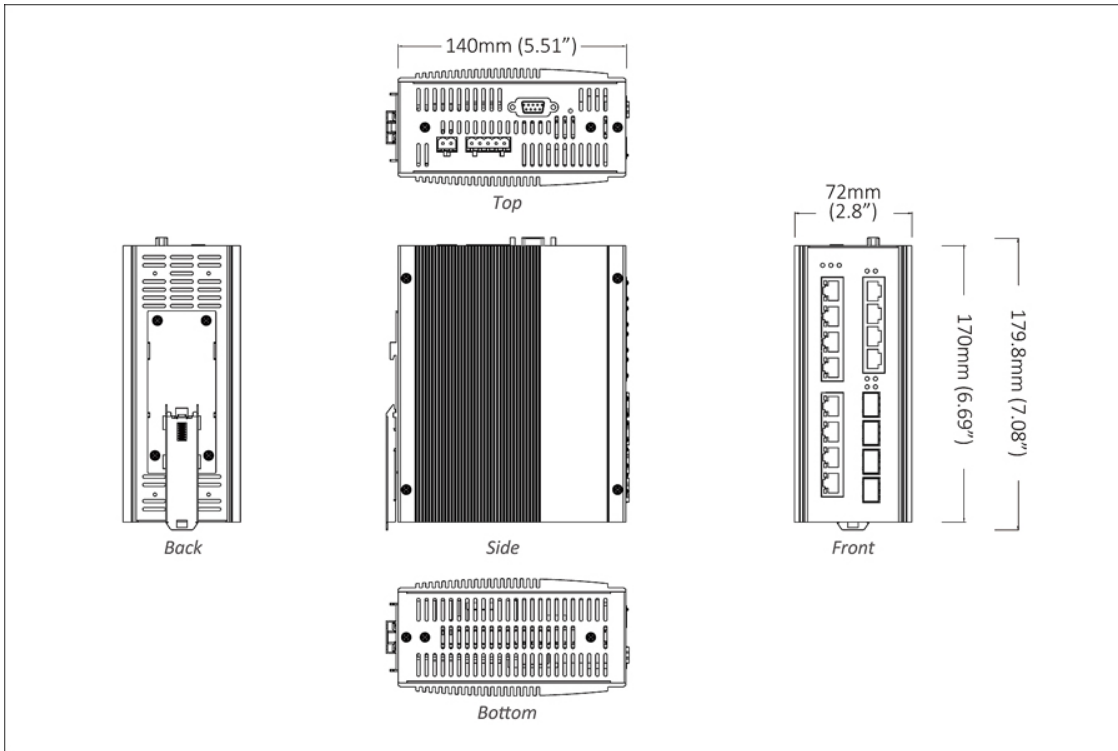
FED STD 101C Method 5007.1 (Free fall w/package)

Industrial Compliance

IEEE 61850-3/IEEE 1613

NEMA TS2

寸法図



製品型番

型番

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レールマウントキットを含む。

オプション関連製品

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

