

EDS-728シリーズ

24+4Gポートレイヤ2ギガビット・モジュール式マネージド・イーサネット・スイッチ

機能とメリット

- 4ギガビットおよび銅線とファイバ用の高速イーサネットポート24個
- Turbo RingおよびTurbo Chain（リカバリ時間はスイッチ250台で20ミリ秒未満）¹、RSTP/STP、およびMSTPでネットワーク冗長性を実現
- TACACS+、SNMPv3、IEEE 802.1x、HTTPS、およびSSHで、ネットワークセキュリティを強化
- Webブラウザ、CLI、Telnet/シリアルコンソール、Windowsユーティリティ、ABC-01による簡単なネットワーク管理
- 簡単に視覚化された産業ネットワーク管理を行うためのMXstudioに対応



認証



製品紹介

EDS-728シリーズは、ファイバモジュールと銅線モジュールのさまざまな組み合わせを可能にする多様なモジュール設計を特徴としており、いかなるオートメーションネットワークにも最適な広範な接続オプションを提供しています。モジュール設計により、最大4つのギガビットポートと最大24のファストイーサネットポートを使用できます。EDS-728シリーズは冗長ギガビットネットワークバックボーン向けに特別に設計されており、モジュール式設定を使用して、ネットワーク拡張のための高度な柔軟性を提供しています。

EDS-728シリーズの高度な管理とセキュリティ機能により、最高のネットワークパフォーマンス、セキュリティ、および信頼性が確保されます。また、EDS-728シリーズは、産業クラスの構造、自動設定バックアップ用コンソールポート、水平および垂直の便利な両方向表示に対応したアングル型LEDトラブルシューティングパネルといった特徴も備えています。

その他の機能とメリット

- 主なマネージド機能をすばやく構成するためのコマンドラインインターフェース（CLI）
- Q-in-Qタギングで高度なVLAN機能をサポート
- ネットワークの時間の同期のためのソフトウェアベースのIEEE 1588 PTPv2（Precision Time Protocol）
- 各ポリシーに応じてIPアドレスを割り当てるDHCP Option 82
- デバイスの管理および監視用のEtherNet/IPおよびModbus TCPプロトコルをサポート
- トランスペアレントデータ伝送のためのPROFINETプロトコルとの互換性
- マルチキャストトラフィックをフィルタリングするIGMPスヌーピングおよびGMRP
- ネットワーク計画を容易にするIEEE 802.1Q VLANとGVRPのプロトコル
- QoS（IEEE 802.1p/1QおよびTOS/DiffServ）
- 最適な帯域幅利用のためのポートランキング
- 異なるレベルのネットワーク管理を実現するSNMPv1/v2c/v3
- プロアクティブで効率の高いネットワーク監視のためのRMON
- MACアドレスに基づいている不正アクセスをブロックするためのロックポート機能
- オンラインデバッグ用のポートミラーリング
- メールとリレー出力を通じた例外検出による自動警告
- センサーとアラームをIPネットワークと統合するためのデジタル入力
- 冗長なデュアルDC電源
- Webブラウザ、Telnet/シリアルコンソール、CLI、Windowsユーティリティ、ABC-01自動バックアップコンフィギュレータによる設定が可能

1. ギガビットイーサネットのリカバリ時間50ミリ秒未満

仕様

Input/Output Interface

Alarm Contact Channels	2, Relay output with current carrying capacity of 1 A @ 24 VDC
Digital Input Channels	2
Digital Inputs	+13 to +30 V for state 1 -30 to +3 V for state 0 Max. input current: 8 mA

Ethernet Interface

Module	6 slots for any combination of 4-port interface modules, 10/100BaseT(X) or 100BaseFX; 2 slots for any combination of 2-port interface modules, 10/100/1000BaseT(X) or 1000BaseSFP
Pre-installed Modules	EDS-72810G-2GSFP: 1 x IM-2GSFP EDS-72810G-2GTX2GSFP: 1 x IM-2GTX 1 x IM-2GSFP EDS-72810G-4GSFP: 2 x IM-2GSFP EDS-72810G-4GTX: 2 x IM-2GTX
Standards	IEEE 802.1D-2004 for Spanning Tree Protocol IEEE 802.1p for Class of Service IEEE 802.1Q for VLAN Tagging IEEE 802.1s for Multiple Spanning Tree Protocol IEEE 802.1w for Rapid Spanning Tree Protocol IEEE 802.1X for authentication IEEE 802.3 for 10BaseT IEEE 802.3ab for 1000BaseT(X) IEEE 802.3ad for Port Trunk with LACP IEEE 802.3u for 100BaseT(X) and 100BaseFX IEEE 802.3x for flow control IEEE 802.3z for 1000BaseX

Ethernet Software Features

Filter	GMRP, GVRP, IGMP v1/v2, QinQ VLAN
Industrial Protocols	EtherNet/IP, Modbus TCP
Management	Back Pressure Flow Control, BOOTP, DDM, DHCP Option 66/67/82, DHCP Server/Client, Flow control, IPv4, LLDP, Port Mirror, RARP, RMON, SMTP, SNMP Inform, SNMPv1/v2c/v3, Syslog, Telnet, TFTP
MIB	Bridge MIB, Ethernet-like MIB, MIB-II, P-BRIDGE MIB, Q-BRIDGE MIB, RMON MIB Groups 1, 2, 3, 9, RSTP MIB
Redundancy Protocols	Link Aggregation, MSTP, RSTP, STP, Turbo Chain, Turbo Ring v1/v2
Security	Broadcast storm protection, HTTPS/SSL, Port Lock, RADIUS, SSH, TACACS+
Time Management	NTP Server/Client, SNTP, IEEE 1588v2 PTP (software-based)
Filter	VLAN unaware, 802.1Q VLAN

Switch Properties

IGMP Groups	256
MAC Table Size	16 K
Max. No. of VLANs	64
Packet Buffer Size	32 Mbits
Priority Queues	4
VLAN ID Range	VID 1 to 4094

Serial Interface

Console Port	RS-232 (TxD, RxD, GND), 8-pin RJ45 (115200, n, 8, 1)
--------------	--

Power Parameters

Connection	2 removable 6-contact terminal block(s)
Input Current	0.82 A @ 24 VDC
Input Voltage	24 VDC, Redundant dual inputs
Operating Voltage	12 to 45 VDC
Overload Current Protection	Supported
Reverse Polarity Protection	Supported

Physical Characteristics

IP Rating	IP30
Dimensions	362.4 x 142.5 x 128 mm (14.27 x 5.61 x 5.04 in)
Weight	1950 g (4.30 lb)
Installation	DIN-rail mounting, Wall mounting (with optional kit)

Environmental Limits

Operating Temperature	0 to 60°C (32 to 140°F)
Storage Temperature (package included)	-40 to 85°C (-40 to 185°F)
Ambient Relative Humidity	5 to 95% (non-condensing)

Standards and Certifications

Freefall	IEC 60068-2-32
EMC	EN 55032/24
EMI	CISPR 32, FCC Part 15B Class A
EMS	IEC 61000-4-2 ESD: Contact: 6 kV; Air: 8 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 10 V/m IEC 61000-4-4 EFT: Power: 4 kV; Signal: 2 kV IEC 61000-4-5 Surge: Power: 2 kV; Signal: 1 kV IEC 61000-4-6 CS: 10 V IEC 61000-4-8 PFMF
Maritime	ABS, DNV-GL, LR, NK
Safety	EN 60950-1, UL 508, UL 60950-1, CSA C22.2 No. 60950-1
Shock	IEC 60068-2-27
Vibration	IEC 60068-2-6

MTBF

Time	191,203 hrs
Standards	Telcordia SR332

Warranty

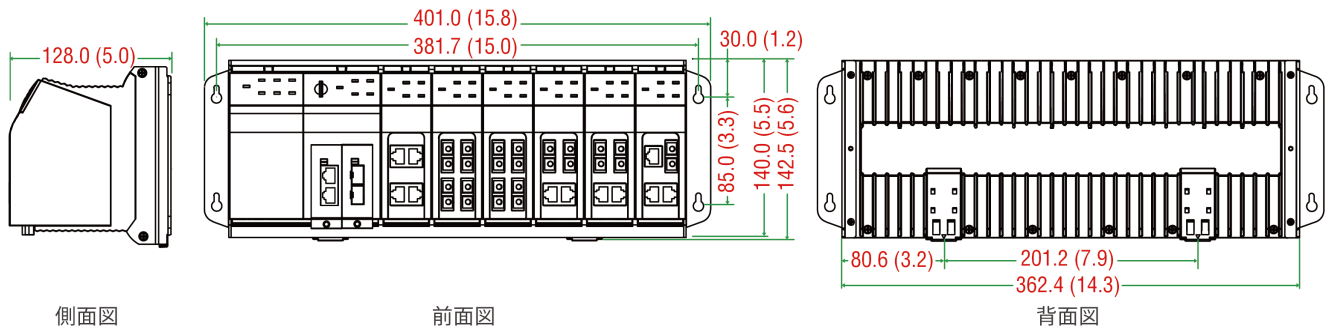
Warranty Period	5 years
Details	See www.moxa.com/jp/warranty

Package Contents

Device	1 x EDS-728 Series switch
Cable	1 x RJ45-to-DB9 console cable
Documentation	1 x document and software CD 1 x product certificates of quality inspection, Simplified Chinese 1 x product notice, Simplified Chinese 1 x quick installation guide 1 x warranty card
Note	SFP modules and/or modules from the IM Module Series need to be purchased separately for use with this product.

寸法

単位：mm（インチ）



注文情報

Model Name	Layer	Total No. of Ports	IM-2G Series Module 10/100/1000BaseT(X) or 1000BaseSFP	IM Series Module 10/100BaseT(X) and/or 100BaseFX	Operating Temp.
EDS-72810G	2	28	2 slots for up to 4 10/100/1000BaseT(X) or 1000BaseSFP ports	6 slots for up to 24 10/100BaseT(X) and/or 100BaseFX ports	0 to 60°C
EDS-72810G-4GTX	2	28	2 IM-2GTX preinstalled; 2 slots for up to 4 10/100/1000BaseT(X) or 1000BaseSFP ports	6 slots for up to 24 10/100BaseT(X) and/or 100BaseFX ports	0 to 60°C
EDS-72810G-2GSFP	2	28	1 IM-2GSFP preinstalled; 2 slots for up to 4 10/100/1000BaseT(X) or 1000BaseSFP ports	6 slots for up to 24 10/100BaseT(X) and/or 100BaseFX ports	0 to 60°C
EDS-72810G-4GSFP	2	28	2 IM-2GSFP preinstalled; 2 slots for up to 4 10/100/1000BaseT(X) or 1000BaseSFP ports	6 slots for up to 24 10/100BaseT(X) and/or 100BaseFX ports	0 to 60°C
EDS-72810G-2GTX2GSFP	2	28	1 IM-2GTX and 1 IM-2GSFP preinstalled; 2 slots for up to 4 10/100/1000BaseT(X) or 1000BaseSFP ports	6 slots for up to 24 10/100BaseT(X) and/or 100BaseFX ports	0 to 60°C

アクセサリ（別売）

IM Module Series

IM-1LSC/3TX	Fast Ethernet interface AC module with 3 10/100BaseT(X) ports and 1 100BaseFX single-mode port (SC connector for 80 km transmission), 0 to 60°C operating temperature
-------------	---

IM-2GSFP	Gigabit Ethernet interface module with 2 1000BaseSFP slots (see the SFP-1G series ordering information for available Gigabit Ethernet SFP modules), 0 to 60°C operating temperature
IM-2GTX	Gigabit Ethernet interface module with 2 10/100/1000BaseT(X) ports, 0 to 60°C operating temperature
IM-2MSC/2TX	Fast Ethernet interface module with 2 10/100BaseT(X) ports and 2 100BaseFX multi-mode ports (SC connectors), 0 to 60°C operating temperature
IM-2MST/2TX	Fast Ethernet interface module with 2 10/100BaseT(X) ports and 2 100BaseFX multi-mode ports (ST connectors), 0 to 60°C operating temperature
IM-2SSC/2TX	Fast Ethernet interface module with 2 10/100BaseT(X) ports and 2 100BaseFX single-mode ports (SC connectors), 0 to 60°C operating temperature
IM-4MSC	Fast Ethernet interface module with 4 100BaseFX multi-mode ports (SC connectors), 0 to 60°C operating temperature
IM-4MST	Fast Ethernet interface module with 4 100BaseFX multi-mode ports (ST connectors), 0 to 60°C operating temperature
IM-4SSC	Fast Ethernet interface module with 4 100BaseFX single-mode ports (SC connectors), 0 to 60°C operating temperature
IM-4TX	Fast Ethernet interface module with 4 10/100BaseT(X) ports, 0 to 60°C operating temperature

Storage Kits

ABC-01	Configuration backup and restoration tool for managed Ethernet switches and AWK Series wireless APs/bridges/clients, 0 to 60°C operating temperature
--------	--

SFP Modules

SFP-1G10ALC	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 10 km transmission; TX 1310 nm, RX 1550 nm, 0 to 60°C operating temperature
SFP-1G10ALC-T	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 10 km transmission; TX 1310 nm, RX 1550 nm, -40 to 85°C operating temperature
SFP-1G10BLC	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 10 km transmission; TX 1550 nm, RX 1310 nm, 0 to 60°C operating temperature
SFP-1G10BLC-T	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 10 km transmission; TX 1550 nm, RX 1310 nm, -40 to 85°C operating temperature
SFP-1G20ALC	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 20 km transmission; TX 1310 nm, RX 1550 nm, 0 to 60°C operating temperature
SFP-1G20ALC-T	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 20 km transmission; TX 1310 nm, RX 1550 nm, -40 to 85°C operating temperature
SFP-1G20BLC	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 20 km transmission; TX 1550 nm, RX 1310 nm, 0 to 60°C operating temperature
SFP-1G20BLC-T	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 20 km transmission; TX 1550 nm, RX 1310 nm, -40 to 85°C operating temperature
SFP-1G40ALC	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 40 km transmission; TX 1310 nm, RX 1550 nm, 0 to 60°C operating temperature
SFP-1G40ALC-T	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 40 km transmission; TX 1310 nm, RX 1550 nm, -40 to 85°C operating temperature
SFP-1G40BLC	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 40 km transmission; TX 1550 nm, RX 1310 nm, 0 to 60°C operating temperature
SFP-1G40BLC-T	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 40 km transmission; TX 1550 nm, RX 1310 nm, -40 to 85°C operating temperature
SFP-1GEZXC	SFP module with 1 1000BaseEZC port with LC connector for 110 km transmission, 0 to 60°C operating temperature
SFP-1GEZXC-120	SFP module with 1 1000BaseEZC port with LC connector for 120 km transmission, 0 to 60°C operating temperature
SFP-1GLHLC	SFP module with 1 1000BaseLH port with LC connector for 30 km transmission, 0 to 60°C operating temperature
SFP-1GLHLC-T	SFP module with 1 1000BaseLH port with LC connector for 30 km transmission, -40 to 85°C operating temperature

SFP-1GLHXLC	SFP module with 1 1000BaseLHX port with LC connector for 40 km transmission, 0 to 60°C operating temperature
SFP-1GLHXLC-T	SFP module with 1 1000BaseLHX port with LC connector for 40 km transmission, -40 to 85°C operating temperature
SFP-1GLSXLC	SFP module with 1 1000BaseLSX port with LC connector for 500 m transmission, 0 to 60°C operating temperature
SFP-1GLSXLC-T	SFP module with 1 1000BaseLSX port with LC connector for 500 m transmission, -40 to 85°C operating temperature
SFP-1GLXLC	SFP module with 1 1000BaseLX port with LC connector for 10 km transmission, 0 to 60°C operating temperature
SFP-1GLXLC-T	SFP module with 1 1000BaseLX port with LC connector for 10 km transmission, -40 to 85°C operating temperature
SFP-1GSXLC	SFP module with 1 1000BaseSX port with LC connector for 300/550 m transmission, 0 to 60°C operating temperature
SFP-1GSXLC-T	SFP module with 1 1000BaseSX port with LC connector for 300/550 m transmission, -40 to 85°C operating temperature
SFP-1GZXLC	SFP module with 1 1000BaseZX port with LC connector for 80 km transmission, 0 to 60°C operating temperature
SFP-1GZXLC-T	SFP module with 1 1000BaseZX port with LC connector for 80 km transmission, -40 to 85°C operating temperature

Power Supplies

DR-120-24	120W/2.5A DIN-rail 24 VDC power supply with universal 88 to 132 VAC or 176 to 264 VAC input by switch, or 248 to 370 VDC input, -10 to 60°C operating temperature
DR-4524	45W/2A DIN-rail 24 VDC power supply with universal 85 to 264 VAC or 120 to 370 VDC input, -10 to 50°C operating temperature
DR-75-24	75W/3.2A DIN-rail 24 VDC power supply with universal 85 to 264 VAC or 120 to 370 VDC input, -10 to 60°C operating temperature
MDR-40-24	DIN-rail 24 VDC power supply with 40W/1.7A, 85 to 264 VAC, or 120 to 370 VDC input, -20 to 70°C operating temperature
MDR-60-24	DIN-rail 24 VDC power supply with 60W/2.5A, 85 to 264 VAC, or 120 to 370 VDC input, -20 to 70°C operating temperature

Wall-Mounting Kits

WK-32	Wall-mounting kit, 2 plates, 6 screws, 30.3 x 140 x 12.3 mm
-------	---

Rack-Mounting Kits

RK-4U	19-inch rack-mounting kit
-------	---------------------------

Software

MXview-50	Industrial network management software with a license for 50 nodes (by IP address)
MXview-100	Industrial network management software with a license for 100 nodes (by IP address)
MXview-250	Industrial network management software with a license for 250 nodes (by IP address)
MXview-500	Industrial network management software with a license for 500 nodes (by IP address)
MXview-1000	Industrial network management software with a license for 1000 nodes (by IP address)
MXview-2000	Industrial network management software with a license for 2000 nodes (by IP address)
MXview Upgrade-50	License expansion of MXview industrial network management software by 50 nodes (by IP address)

© Moxa Inc. All rights reserved. 2019年8月6日更新。

Moxa Inc.の明白な許可を書面で取得しない限り、本書およびその一部の複製や使用はいかなる方法やいかなる場合でも許可されません。製品の仕様は予告なく変更されることがあります。最新の製品情報については当社のWebサイトをご覧ください。