

EDS-408Aシリーズ

8ポートエントリーレベルマネージドイーサネットスイッチ



機能とメリット

- 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）をサポートし、RSTP/STPでネットワーク冗長性を実現
- IGMPスヌーピング、QoS、IEEE 802.1Q VLAN、ポートベースVLANをサポート
- 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
- PROFINETまたはEtherNet/IPがデフォルトで有効（PNまたはEIPモデル）
- 簡単に視覚化された産業用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-408Aシリーズは、特に産業用アプリケーション向けに設計されています。このスイッチは、Turbo Ring、Turbo Chain、リングカップリング、IGMPスヌーピング、IEEE 802.1Q VLAN、ポートベースVLAN、QoS、RMON、帯域幅管理、ポートミラーリング、および電子メールまたはリレーによる警告など、様々な便利な管理機能をサポートしています。すぐに使用できるTurbo Ringは、Webベースの管理インターフェース、またはEDS-408Aスイッチの上部パネルにあるDIPスイッチを使用して簡単にセットアップできます。

その他の機能とメリット

- 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、Modbus TCPおよびPROFINET¹プロトコルをサポート
- EtherNet/IP EDS（電子データシート）ファイル、カスタムAOI（アドオン指示）、およびFactoryTalk[®] Viewフェイスプレートが利用可能
- PROFINET GSDMLファイルおよびSIMATIC STEP 7デバイスアイコンが利用可能²
- オンラインデバッグ用のポートミラーリング
- ポートベースのVLAN、IEEE 802.1Q VLAN、GVRPでネットワークブランチングを簡素化
- QoS（IEEE 802.1pおよびTOS/DiffServ）
- 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
- 異なるレベルのネットワーク管理セキュリティを実現するSNMPv1/v2c/v3
- 想定外のネットワーク状況を防ぐ帯域幅管理

仕様

Ethernet Interface

10/100BaseT(X) Ports (RJ45 connector)	EDS-408A/408A-T, EDS-408A-EIP/PN models: 8 EDS-408A-MM-SC/MM-ST/SS-SC models: 6 EDS-408A-3M-SC/3M-ST/3S-SC/3S-SC-48/1M2S-SC/2M1S-SC models: 5 All models support: Auto negotiation speed Full/Half duplex mode Auto MDI/MDI-X connection
100BaseFX Ports (multi-mode SC connector)	EDS-408A-MM-SC/2M1S-SC models: 2 EDS-408A-3M-SC models: 3 EDS-408A-1M2S-SC models: 1
100BaseFX Ports (multi-mode ST connector)	EDS-408A-MM-ST models: 2 EDS-408A-3M-ST models: 3

1. EDS-408A-PNシリーズのみ

100BaseFX Ports (single-mode SC connector)	EDS-408A-SS-SC/1M2S-SC models: 2 EDS-408A-2M1S-SC models: 1 EDS-408A-3S-SC/3S-SC-48 models: 3				
Standards	IEEE 802.3 for 10BaseT IEEE 802.3u for 100BaseT(X) and 100BaseFX IEEE 802.3x for flow control IEEE 802.1D-2004 for Spanning Tree Protocol IEEE 802.1p for Class of Service IEEE 802.1Q for VLAN Tagging IEEE 802.1w for Rapid Spanning Tree Protocol				
Optical Fiber			100BaseFX		
			Multi-Mode		Single-Mode
			OM1	50/125 μm	G.652
	800 MHz x km				
	Typical Distance		4 km	5 km	40 km
	Wavelength	Typical (nm)	1300		1310
		TX Range (nm)	1260 to 1360		1280 to 1340
		RX Range (nm)	1100 to 1600		1100 to 1600
	Optical Power	TX Range (dBm)	-10 to -20		0 to -5
		RX Range (dBm)	-3 to -32		-3 to -34
		Link Budget (dB)	12		29
		Dispersion Penalty (dB)	3		1
	Note: When connecting a single-mode fiber transceiver, we recommend using an attenuator to prevent damage caused by excessive optical power. Note: Compute the “typical distance” of a specific fiber transceiver as follows: Link budget (dB) > dispersion penalty (dB) + total link loss (dB).				

Ethernet Software Features

Filter	802.1Q VLAN GMRP GVRP IGMP v1/v2 Port-based VLAN
Industrial Protocols	EtherNet/IP Modbus TCP EDS-408A-PN models: PROFINET IO Device (Slave)
Management	Back Pressure Flow Control BOOTP DHCP Option 66/67/82 DHCP Server/Client Flow control IPv4/IPv6 LLDP Port Mirroring RARP RMON SMTP SNMP Inform SNMPv1/v2c/v3 Syslog Telnet TFTP
MIB	Bridge-MIB Ethernet-like-MIB

	MIB-II P-BRIDGE MIB RMON MIB Groups 1, 2, 3, 9 RSTP MIB
Redundancy Protocols	RSTP STP Turbo Chain Turbo Ring v1/v2
Security	Broadcast storm protection HTTPS/SSL NTP authentication Port Lock SNMPv3 SSH Trust access control
Time Management	NTP Server/Client SNTP

Switch Properties

IGMP Groups	256
MAC Table Size	8 K
Max. No. of VLANs	64
Packet Buffer Size	1 Mbits
Priority Queues	4
VLAN ID Range	VID 1 to 4094

Serial Interface

Console Port	RS-232 (Tx/D, Rx/D, GND), 10-pin RJ45 (115200, n, 8, 1)
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DIP Switch Configuration

Ethernet Interface	Turbo Ring, Master, Coupler, Reserve
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Input/Output Interface

Alarm Contact Channels	Relay output with current carrying capacity of 1 A @ 24 VDC
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Power Parameters

Connection	1 removable 6-contact terminal block(s)
Input Voltage	All models: Redundant dual inputs EDS-408A/408A-T, EDS-408A-MM-SC/MM-ST/SS-SC/3M-SC/3M-ST/3S-SC/1M2S-SC/ 2M1S-SC/EIP/PN models: 12/24/48 VDC EDS-408A-3S-SC-48/408A-3S-SC-48-T models: $\pm 24/\pm 48$ VDC
Operating Voltage	EDS-408A/408A-T, EDS-408A-MM-SC/MM-ST/SS-SC/3M-SC/3M-ST/3S-SC/1M2S-SC/ 2M1S-SC/EIP/PN models: 9.6 to 60 VDC EDS-408A-3S-SC-48 models: ± 19 to ± 60 VDC ²
Input Current	EDS-408A, EDS-408A-EIP/PN/MM-SC/MM-ST/SS-SC models: 0.61 @ 12 VDC 0.3 @ 24 VDC 0.16 @ 48 VDC EDS-408A-3M-SC/3M-ST/3S-SC/1M2S-SC/2M1S-SC models: 0.73 @ 12 VDC

2. ^{-60~-19 VDC または19~60 VDC。電源極性システムを混在させないでください。}

	0.35 @ 24 VDC 0.18 @ 48 VDC EDS-408A-3S-SC-48 models: 0.33 A @ 24 VDC 0.17 A @ 48 VDC
Overload Current Protection	Supported
Reverse Polarity Protection	Supported

Physical Characteristics

Housing	Metal
IP Rating	IP30
Dimensions	53.6 x 135 x 105 mm (2.11 x 5.31 x 4.13 in)
Weight	EDS-408A, EDS-408A-MM-SC/MM-ST/SS-SC/EIP/PN models: 650 g (1.44 lb) EDS-408A-3M-SC/3M-ST/3S-SC/3S-SC-48/1M2S-SC/2M1S-SC models: 890 g (1.97 lb)
Installation	DIN-rail mounting Wall mounting (with optional kit)

Environmental Limits

Operating Temperature	Standard Models: -10 to 60°C (14 to 140°F) Wide Temp. Models: -40 to 75°C (-40 to 167°F)
Storage Temperature (package included)	-40 to 85°C (-40 to 185°F)
Ambient Relative Humidity	5 to 95% (non-condensing)

Standards and Certifications

Safety	All models: UL 508 EDS-408A/408A-T, EDS-408A-MM-SC/MM-ST/SS-SC models, EDS-EIP/PN models: UL 6095-01. EN 62368-1
EMC	EN 55032/35
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: 2 kV; Signal: 2 kV IEC 61000-4-5 Surge: Power: 2 kV; Signal: 2 kV IEC 61000-4-6 CS: 10 V IEC 61000-4-8 PFMF
Hazardous Locations	EDS-408A, EDS-408A-MM-SC/MM-ST/SS-SC/EIP/PN models: ATEX, Class I Division 2, IECEx
Railway	EN 50121-4
Traffic Control	EDS-408A, EDS-408A-MM-SC/MM-ST/SS-SC/EIP/PN models: NEMA TS2
Vibration	IEC 60068-2-6
Shock	IEC 60068-2-27
Freefall	IEC 60068-2-31
Maritime	All models, exclude EDS-408A-3S-SC-48-(T): DNV, NK, LR EDS-408A, EDS-408A-MM-SC/MM-ST/SS-SC/EIP/PN models: ABS

MTBF

Time	EDS-408A, EDS-408A-EIP/PN models: 1,339,439 hrs EDS-408A-MM-SC/MM-ST models: 1,277,138 hrs EDS-408A-SS-SC models: 1,294,561 hrs EDS-408A-3M-SC/3M-ST/3S-SC/1M2S-SC/2M1S-SC models: 1,253,072 hrs EDS-408A-3S-SC-48 models: 989,940 hrs
Standards	Telcordia (Bellcore), GB

Warranty

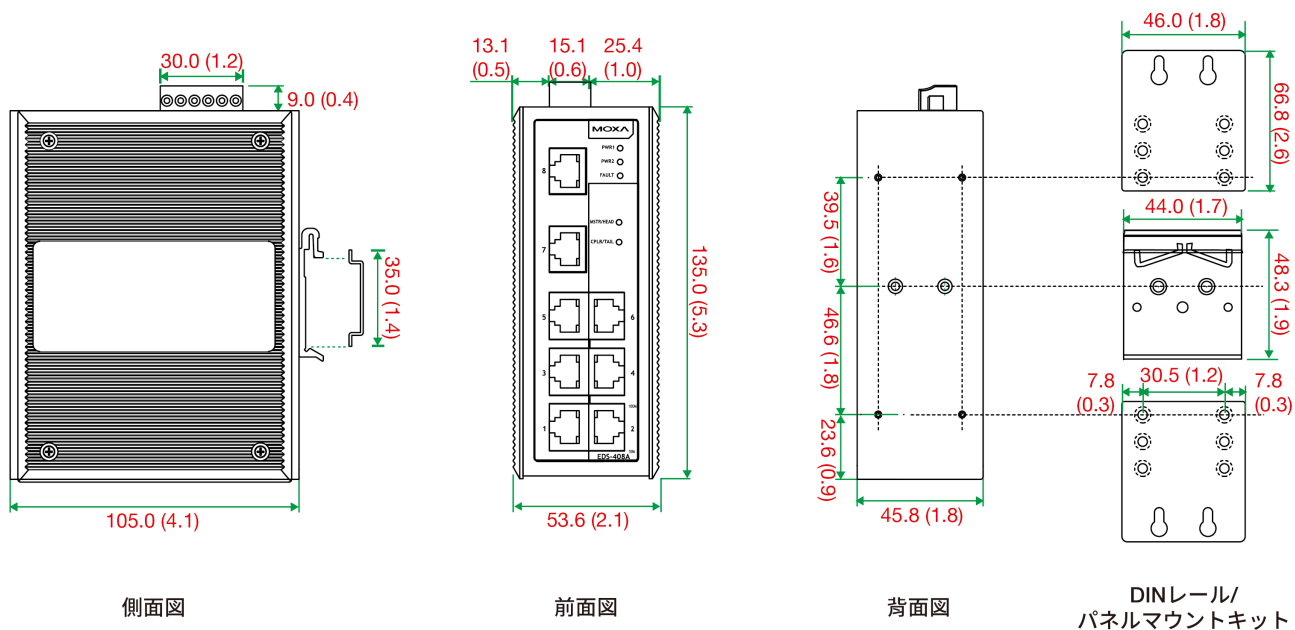
Warranty Period	5 years
Details	See www.moxa.com/jp/warranty

Package Contents

Device	1 x EDS-408A Series switch
Cable	1 x RJ45-to-DB9 console cable
Installation Kit	4 x cap, plastic, for RJ45 port
Documentation	1 x product certificates of quality inspection, Simplified Chinese 1 x product notice, Simplified Chinese 1 x quick installation guide 1 x warranty card

寸法

単位：mm（インチ）



注文情報

Model Name	Layer	Total No. of Ports	10/100BaseT(X) Ports RJ45 Connector	100BaseFX Ports Multi-Mode, SC Connector	100BaseFX Ports Multi-Mode, ST Connector	100BaseFX Ports Single-Mode, SC Connector	Operating Temp.
EDS-408A	2	8	8	–	–	–	-10 to 60°C
EDS-408A-T	2	8	8	–	–	–	-40 to 75°C
EDS-408A-MM-ST	2	8	6	–	2	–	-10 to 60°C
EDS-408A-MM-ST-T	2	8	6	–	2	–	-40 to 75°C

Model Name	Layer	Total No. of Ports	10/100BaseT(X) Ports RJ45 Connector	100BaseFX Ports Multi-Mode, SC Connector	100BaseFX Ports Multi-Mode, ST Connector	100BaseFX Ports Single-Mode, SC Connector	Operating Temp.
EDS-408A-MM-SC	2	8	6	2	–	–	-10 to 60°C
EDS-408A-MM-SC-T	2	8	6	2	–	–	-40 to 75°C
EDS-408A-SS-SC	2	8	6	–	–	2	-10 to 60°C
EDS-408A-SS-SC-T	2	8	6	–	–	2	-40 to 75°C
EDS-408A-3M-ST	2	8	5	–	3	–	-10 to 60°C
EDS-408A-3M-ST-T	2	8	5	–	3	–	-40 to 75°C
EDS-408A-3M-SC	2	8	5	3	–	–	-10 to 60°C
EDS-408A-3M-SC-T	2	8	5	3	–	–	-40 to 75°C
EDS-408A-3S-SC	2	8	5	–	–	3	-10 to 60°C
EDS-408A-3S-SC-T	2	8	5	–	–	3	-40 to 75°C
EDS-408A-3S-SC-48	2	8	5	–	–	3	-10 to 60°C
EDS-408A-3S-SC-48-T	2	8	5	–	–	3	-40 to 75°C
EDS-408A-1M2S-SC	2	8	5	1	–	2	-10 to 60°C
EDS-408A-1M2S-SC-T	2	8	5	1	–	2	-40 to 75°C
EDS-408A-2M1S-SC	2	8	5	2	–	1	-10 to 60°C
EDS-408A-2M1S-SC-T	2	8	5	2	–	1	-40 to 75°C
EDS-408A-EIP	2	8	8	–	–	–	-10 to 60°C
EDS-408A-EIP-T	2	8	8	–	–	–	-40 to 75°C
EDS-408A-PN	2	8	8	–	–	–	-10 to 60°C
EDS-408A-PN-T	2	8	8	–	–	–	-40 to 75°C

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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
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Power Supplies

HDR-60-24	60 W/2.5 A DIN-rail 24 VDC power supply, universal 85 to 264 VAC or 120 to 370 VDC input voltage, -30 to 70°C operating temperature
NDR-120-24	120 W/5.0 A DIN-rail 24 VDC power supply, universal 90 to 264 VAC or 127 to 370 VDC input voltage, -20 to 70°C operating temperature
NDR-120-48	120 W/2.5 A DIN-rail 48 VDC power supply, universal 90 to 264 VAC or 127 to 370 VDC input voltage, -20 to 70°C operating temperature
NDR-240-48	240 W/5.0 A DIN-rail 48 VDC power supply, universal 90 to 264 VAC or 127 to 370 VDC input voltage, -20 to 70°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

Software

LIC-MXviewOne-NEW-XN-SR	MXview One node license with customizable node quantity (minimum 1 node)
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Wall-Mounting Kits

WK-46-01	Wall-mounting kit, 2 plates, 8 screws, 46 x 66.8 x 2 mm
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Rack-Mounting Kits

RK-4U	19-inch rack-mounting kit
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