

EDS-4008シリーズ

8ポート（4つの802.3bt PoEポートまたは4つのギガアップリンクポートのオプション） マネージドイーサネットスイッチ



機能とメリット

- IEC 62443-4-1、IEC 62443-4-2産業サイバーセキュリティ標準に準拠
- ネットワーク冗長性のためのTurbo RingとTurbo Chain（リカバリ時間はスイッチ250台で20ミリ秒未満）¹、および RSTP/STP
- ポートごとに最大90W出力が可能なIEEE 802.3bt PoEをサポート
- 柔軟な導入のための幅広い電源入力オプション
- 狭いスペースにも収まるコンパクトな筐体設計
- 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-4008シリーズには、8ポートのマネージド高速イーサネットスイッチで、4つの1 Gbpsアップリンクポートか2つの100M ST/SC光ファイバポートのオプションがあります。また、このシリーズには、広帯域幅PoEデバイスを接続するために、4つの10/100BaseT(X) 802.3af(PoE)、802.3at(PoE+)、802.3bt準拠のイーサネットPoEポートオプションがあります。

Turbo Ring、Turbo Chain、RSTP/STPなどのイーサネット冗長性技術により、システムの信頼性が高まり、ネットワークバックボーンの可用性が向上します。EDS-4008シリーズは、スケーラブルなバックボーンからメリットを得られる、ビデオおよびプロセス監視、ITS、DCSシステムなどの要求の多いアプリケーション向けに特別に設計されています。

EDS-4008シリーズは、製品のセキュリティと安全な開発ライフサイクルの要件を両方網羅するIEC 62443-4-2とIEC 62443-4-1の産業サイバーセキュリティ標準に準拠していて、これにより弊社のお客様が安全な業界ネットワーク設計の要件を満たす支援をしています。

仕様

Ethernet Interface

10/100BaseT(X) Ports (RJ45 connector)	EDS-4008-LV/-HV/-T models: 8 EDS-4008-2MST-LV/-HV/-T models: 6 EDS-4008-2MSC-LV/-HV/-T models: 6 EDS-4008-2SSC-LV/-HV/-T models: 6 EDS-4008-2GT-2GS-LV/-HV/-T models: 4 Auto negotiation speed Full/Half duplex mode Auto MDI/MDI-X connection
PoE Ports (10/100BaseT(X), RJ45 connector)	EDS-4008-4P-2GT-2GS-LVA/-LVB/-T models: 4
100BaseFX Ports (multi-mode SC connector)	EDS-4008-2MSC-LV/-HV/-T models: 2
100BaseFX Ports (multi-mode ST connector)	EDS-4008-2MST-LV/-HV/-T models: 2
100BaseFX Ports (single-mode SC connector)	EDS-4008-SSC-LV/-HV/-T models: 2
10/100/1000BaseT(X) Ports (RJ45 connector)	EDS-4008-2GT-2GS-LV/-HV/-T models: 2 EDS-4008-4P-2GS-2GT-LVA/-LVB/-T models: 2

1. ポートリンク速度が1ギガビット以上の場合、リカバリ時間は50ミリ秒未満。

100/1000BaseSFP Slots	EDS-4008-2GT-2GS-LV/-HV/-T models 2 EDS-4008-4P-2GT-2GS-LVA/-LVB/-T models: 2
Standards	IEEE 802.3 for 10BaseT IEEE 802.3u for 100BaseT(X) and 100BaseFX IEEE 802.3ab for 1000BaseT(X) IEEE 802.3z for 1000BaseX IEEE 802.3x for flow control IEEE 802.3ad for Port Trunk with LACP IEEE 802.1Q for VLAN Tagging IEEE 802.1D-2004 for Spanning Tree Protocol IEEE 802.1w for Rapid Spanning Tree Protocol IEEE 802.1p for Class of Service IEEE 802.1X for authentication

Ethernet Software Features

Filter	GMRP, GVRP, GARP, 802.1Q VLAN, IGMP Snooping v1/v2/v3, IGMP Querier
Management	IPv4/IPv6, Flow control, Back Pressure Flow Control, DHCP Server/Client, ARP, RARP, LLDP, Port Mirror, Linkup Delay, SMTP, SNMP Trap, SNMP Inform, SNMPv1/v2c/v3, RMON, TFTP, SFTP, HTTP, HTTPS, Telnet, Syslog, Private MIB
MIB	P-BRIDGE MIB, Q-BRIDGE MIB, IEEE8021-SPANNING-TREE-MIB, IEEE8021-PAE-MIB, IEEE8023-LAG-MIB, LLDP-EXT-DOT1-MIB, LLDP-EXT-DOT3-MIB, SNMPv2-MIB, RMON MIB Groups 1, 2, 3, 9
Redundancy Protocols	STP, RSTP, Turbo Ring v2, Turbo Chain, Ring Coupling, Dual-Homing, Link Aggregation
Security	Broadcast storm protection, Rate Limit, Trust access control, Static Port Lock, MAC Sticky, HTTPS/SSL, SSH, RADIUS, TACACS+, Login and Password Policy
Time Management	SNTP, NTP Server/Client, NTP Authentication
Protocols	IPv4/IPv6, TCP/IP, UDP, ICMP, ARP, RARP, TFTP, DNS, NTP Client, DHCP Server, DHCP Client, 802.1X, QoS, HTTPS, HTTP, Telnet, SMTP, SNMPv1/v2c/v3, RMON, Syslog

Switch Properties

MAC Table Size	16 K
Jumbo Frame Size	9.216 KB
Max. No. of VLANs	256
VLAN ID Range	VID 1 to 4094
IGMP Groups	512
Priority Queues	4
Packet Buffer Size	1 MB

LED Interface

LED Indicators	PWR1, PWR2, STATE, FAULT, MSTR/HEAD, CPLR/TAIL, SYNC
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Serial Interface

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

USB Connector	USB Type A (Reserved)
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Input/Output Interface

Alarm Contact Channels	1, Relay output with current carrying capacity of 1 A @ 24 VDC
Digital Input Channels	1

Digital Inputs	+13 to +30 V for state 1 -30 to +3 V for state 0 Max. input current: 8 mA
Buttons	Reset button
DIP Switch Configuration	
DIP Switches	Turbo Ring, Master, Coupler, Reserve
Power Parameters	
Connection	2 removable 4-contact terminal block(s)
Pre-installed Power Module	-LV/-LV-T models: PWR-100-LV -HV/-HV-T models: PWR-105-HV-I -LVA/-LVA-T models: PWR-101-LV-BP-I -LVB/-LVB-T models: PWR-103-LV-VB-I
Note	The EDS-4008 Series supports modular power supplies. The model names and power parameters are determined by the installed power module. For example: EDS-4008-T + PWR-100-LV = EDS-4008-LV-T EDS-4008-T + PWR-105-HV-I = EDS-4008-HV-T If you install a different power module, refer to the specifications of the corresponding model. For example, if you replace the power module of the EDS-4008-LV-T with the PWR-105-HV-I, refer to the specifications of the EDS-4008-HV-T.
Input Voltage	-LV/-LV-T models: 12/24/48 VDC, Redundant dual inputs -HV/-HV-T models: 110/220 VDC/VAC, Single input -LVA/-LVA-T models: 48 VDC, Redundant dual inputs -LVB/-LVB-T models: 12/24/48 VDC, Redundant dual inputs
Operating Voltage	-LV/-LV-T models: 9.6 to 60 VDC -HV/-HV-T models: 88 to 300 VDC, 85 to 264 VAC -LVA/-LVA-T models: 44 to 57 VDC (> 52 VDC for PoE+ output recommended) -LVB/-LVB-T models: 12 to 57 VDC (> 52 VDC for PoE+ output recommended)
Input Current	-LV/-LV-T models: 12-48 VDC, 1.50-0.40 A or 24 VDC, 0.70 A -HV/-HV-T models: 110-220 VAC, 50-60 Hz, 0.30-0.20 A or 110-220 VDC, 0.30-0.20 A -LVA/-LVA-T models: 48 VDC, 5.42 A -LVB/-LVB-T models: 12/48 VDC, 7.46/4.27 A or 24 VDC, 7.26 A
Power Consumption (Max.)	EDS-4008-LV(-T) models: 7.20 W EDS-4008-HV(-T) models: 8.13 W EDS-4008-2MST-LV(-T) models: 8.45 W EDS-4008-2MST-HV(-T) models: 11.13 W EDS-4008-2MSC-LV(-T) models: 8.45 W EDS-4008-2MSC-HV(-T) models: 11.09 W EDS-4008-2SSC-LV(-T) models: 8.98 W EDS-4008-2SSC-HV(-T) models: 11.37 W EDS-4008-2GT-2GS-LV(-T) models: 9.41 W EDS-4008-2GT-2GS-HV(-T) models: 11.17 W EDS-4008-4P-2GT-2GS-LVA(-T) models: Without PoE: 11.22 W With PoE: Max. 240 W for total PD power consumption @ 48 VDC input EDS-4008-4P-2GT-2GS-LVB(-T) models: Without PoE: 15.84 W With PoE: Max. 180 W for total PD power consumption @ 48 VDC input; Max. 150 W for total PD power consumption @ 24 VDC input; Max. 62 W for total PD power consumption @ 12 VDC input
Max. PoE Power Output per Port	PoE models: 90 W

Overload Current Protection	Supported
Reverse Polarity Protection	Supported
Physical Characteristics	
IP Rating	IP40
Dimensions	EDS-4008(-T), EDS-4008-2MSC(-T), EDS-4008-2SSC(-T) models: 55 x 140 x 120 mm (2.2 x 5.51 x 4.72 in) EDS-4008-2MST(-T) models: 55 x 140 x 132 mm (2.2 x 5.51 x 5.2 in) EDS-4008-2GT-2GS(-T), EDS-4008-4P-2GT-2GS(-T) models: 55 x 140 x 122.5 mm (2.2 x 5.51 x 4.82 in)
Weight	EDS-4008(-T) models: 857 g (1.89 lb) EDS-4008-2MSC(-T) models: 886 g (1.95 lb) EDS-4008-2MST(-T) models: 810 g (1.79 lb) EDS-4008-2SSC(-T) models: 882 g (1.94 lb) EDS-4008-2GT-2GS(-T) models: 795 g (1.75 lb) EDS-4008-4P-2GT-2GS(-T) models: 840 g (1.85 lb)
Installation	DIN-rail mounting, Wall mounting (with optional kit)
Housing	Metal
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	
Industrial Cybersecurity	IEC 62443-4-1 IEC 62443-4-2
Safety	UL 61010-2-201, EN 62368-1 (LVD)
EMC	EN 55032/35, EN 61000-6-2/-6-4
EMI	CISPR 32, FCC Part 15B Class A
EMS	IEC 61000-4-2 ESD: Contact: 8 kV; Air: 15 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 20 V/m IEC 61000-4-4 EFT: Power: 4 kV; Signal: 4 kV IEC 61000-4-5 Surge: Power: 4 kV; Signal: 4 kV IEC 61000-4-6 CS: 10 V IEC 61000-4-8 PFMF
Vibration	IEC 60068-2-6
Shock	IEC 60068-2-27
Freefall	IEC 60068-2-32
Railway	EN 50121-4
Traffic Control	NEMA TS2

MTBF

Time	EDS-4008-LV/-LV-T models: 1,121,399 hrs EDS-4008-HV/-HV-T models: 513,575 hrs EDS-4008-2MSC-LV/-LV-T models: 1,014,299 hrs EDS-4008-2MSC-HV/-HV-T models: 492,582 hrs EDS-4008-2MST-LV/-LV-T models: 1,015,718 hrs EDS-4008-2MST-HV/-HV-T models: 492,582 hrs EDS-4008-2SSC-LV/-LV-T models: 1,015,718 hrs EDS-4008-2SSC-HV/-HV-T models: 492,582 hrs EDS-4008-2GT-2GS-LV/-LV-T models: 1,074,099 hrs EDS-4008-2GT-2GS-HV/-HV-T models: 505,936 hrs EDS-4008-4P-2GT-2GS-LVA/-LVA-T models: 923,670 hrs EDS-4008-4P-2GT-2GS-LVB/-LVB-T models: 870,865 hrs
Standards	Telcordia SR332

Warranty

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

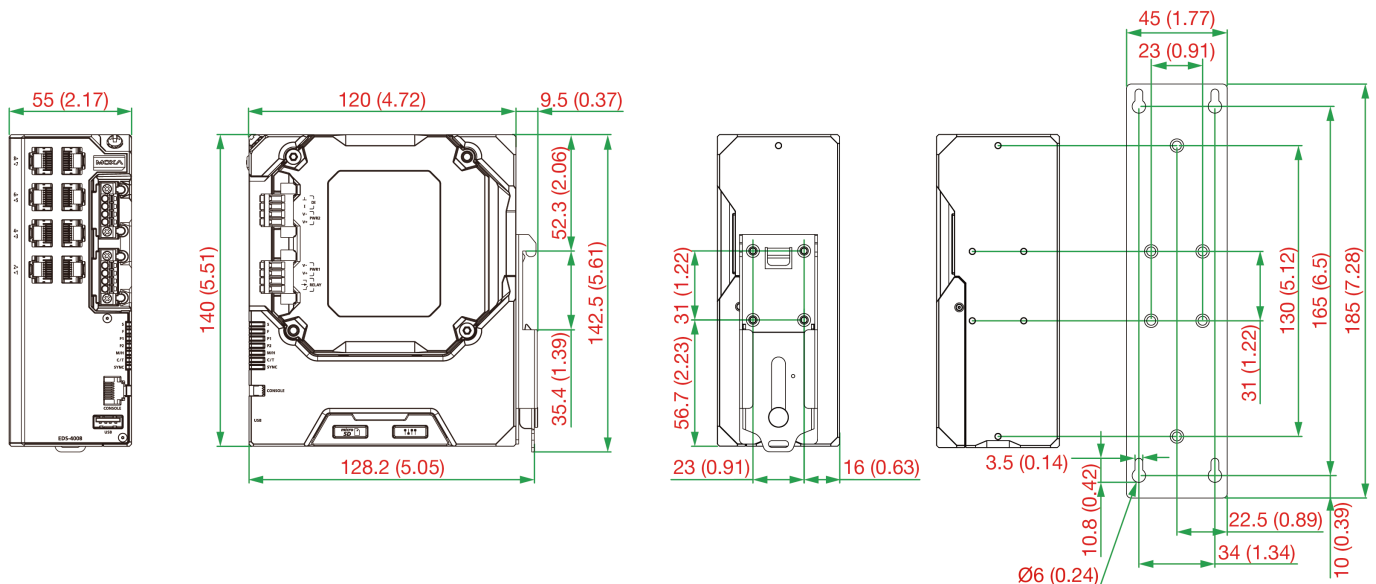
Package Contents

Device	1 x EDS-4008 Series switch
Documentation	1 x quick installation guide 1 x product notice, Simplified Chinese 1 x product certificates of quality inspection, Simplified Chinese 1 x warranty card

寸法

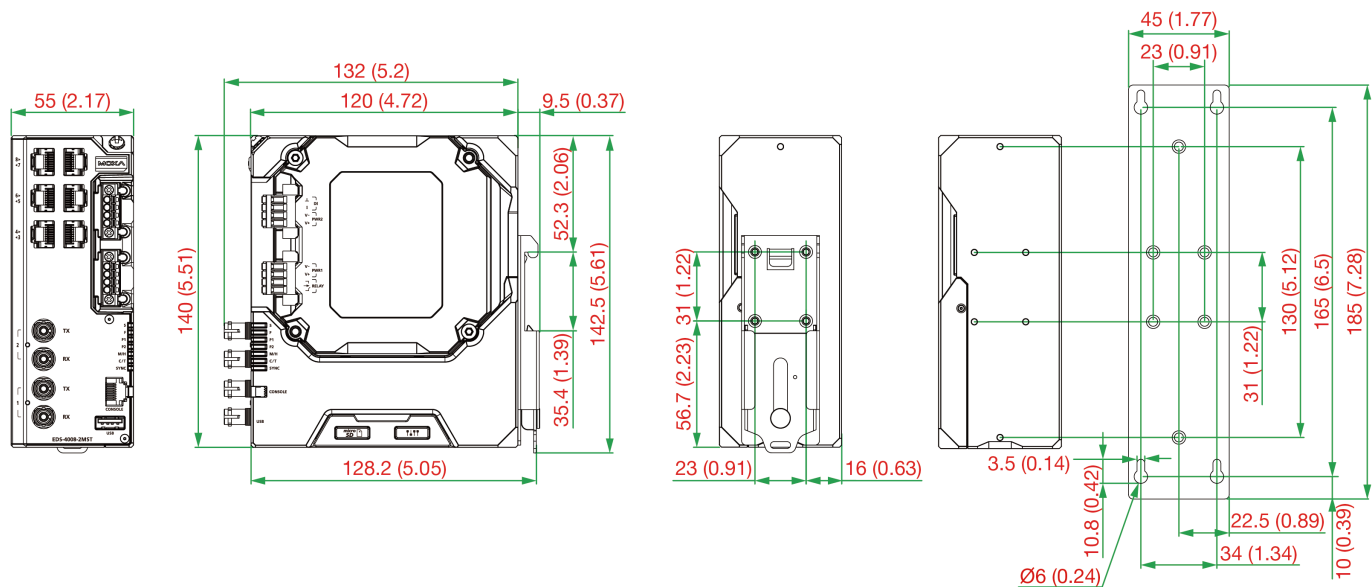
EDS-4008(-T), EDS-4008-2MSC(-T), EDS-4008-2SSC(-T) Models

単位：mm（インチ）



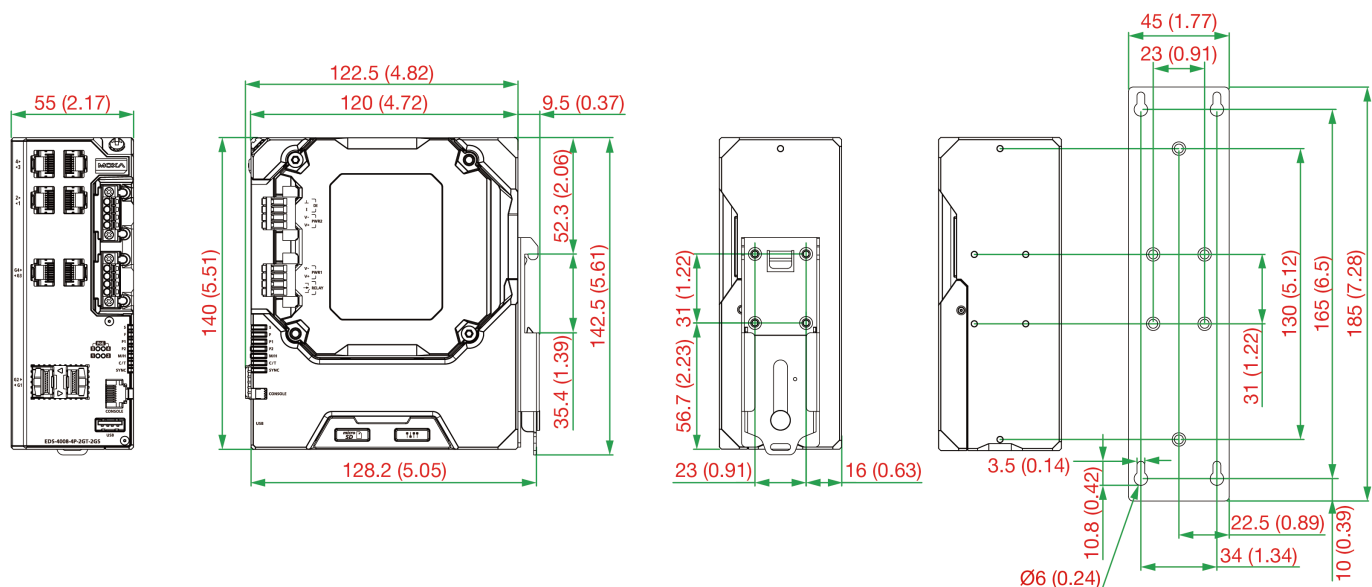
EDS-4008-2MST(-T) Models

単位：mm（インチ）



EDS-4008-2GT-2GS(-T), EDS-4008-4P-2GT-2GS(-T) Models

単位：mm（インチ）



注文情報

Model Name	10/100 BaseT(X) Ports (RJ45 Connector)	100 BaseFX Ports (Multi-mode SC Connector)	100 BaseFX Ports (Multi-mode ST Connector)	100 BaseFX Ports (Single-mode SC Connector)	PoE 10/100 BaseT(X) Ports (RJ45 Connector)	10/100/1000 BaseT(X) Ports (RJ45 Connector)	100/1000 BaseSFP Slots	Operating Voltage	Pre-installed Power Module	Operating Temp.
EDS-4008-LV	8	-	-	-	-	-	-	9.6 to 60 VDC	PWR-100-LV	-10 to 60° C
EDS-4008-LV-T	8	-	-	-	-	-	-	9.6 to 60 VDC	PWR-100-LV	-40 to 75° C
EDS-4008-HV	8	-	-	-	-	-	-	88 to 300 VDC, 85 to 264 VAC	PWR-105-HV-I	-10 to 60° C

Model Name	10/ 100 BaseT(X) Ports (RJ45 Connecto r)	100 BaseFX Ports (Multi- mode SC Connecto r)	100 BaseFX Ports (Multi- mode ST Connecto r)	100 BaseFX Ports (Single- mode SC Connecto r)	PoE 10/ 100 BaseT(X) Ports (RJ45 Connecto r)	10/100/ 1000 BaseT(X) Ports (RJ45 Connecto r)	100/ 1000 BaseSFP Slots	Operating Voltage	Pre- installed Power Module	Operating Temp.
EDS-4008-HV-T	8	–	–	–	–	–	–	88 to 300 VDC, 85 to 264 VAC	PWR-105- HV-I	-40 to 75° C
EDS-4008-2MSC- LV	6	2	–	–	–	–	–	9.6 to 60 VDC	PWR-100- LV	-10 to 60° C
EDS-4008-2MSC- LV-T	6	2	–	–	–	–	–	9.6 to 60 VDC	PWR-100- LV	-40 to 75° C
EDS-4008-2MSC- HV	6	2	–	–	–	–	–	88 to 300 VDC, 85 to 264 VAC	PWR-105- HV-I	-10 to 60° C
EDS-4008-2MSC- HV-T	6	2	–	–	–	–	–	88 to 300 VDC, 85 to 264 VAC	PWR-105- HV-I	-40 to 75° C
EDS-4008-2MST- LV	6	–	2	–	–	–	–	9.6 to 60 VDC	PWR-100- LV	-10 to 60° C
EDS-4008-2MST- LV-T	6	–	2	–	–	–	–	9.6 to 60 VDC	PWR-100- LV	-40 to 75° C
EDS-4008-2MST- HV	6	–	2	–	–	–	–	88 to 300 VDC, 85 to 264 VAC	PWR-105- HV-I	-10 to 60° C
EDS-4008-2MST- HV-T	6	–	2	–	–	–	–	88 to 300 VDC, 85 to 264 VAC	PWR-105- HV-I	-40 to 75° C
EDS-4008-2SSC- LV	6	–	–	2	–	–	–	9.6 to 60 VDC	PWR-100- LV	-10 to 60° C
EDS-4008-2SSC- LV-T	6	–	–	2	–	–	–	9.6 to 60 VDC	PWR-100- LV	-40 to 75° C
EDS-4008-2SSC- HV	6	–	–	2	–	–	–	88 to 300 VDC, 85 to 264 VAC	PWR-105- HV-I	-10 to 60° C
EDS-4008-2SSC- HV-T	6	–	–	2	–	–	–	88 to 300 VDC, 85 to 264 VAC	PWR-105- HV-I	-40 to 75° C
EDS-4008-2GT- 2GS-LV	4	–	–	–	–	2	2	9.6 to 60 VDC	PWR-100- LV	-10 to 60° C
EDS-4008-2GT- 2GS-LV-T	4	–	–	–	–	2	2	9.6 to 60 VDC	PWR-100- LV	-40 to 75° C
EDS-4008-2GT- 2GS-HV	4	–	–	–	–	2	2	88 to 300 VDC, 85 to 264 VAC	PWR-105- HV-I	-10 to 60° C
EDS-4008-2GT- 2GS-HV-T	4	–	–	–	–	2	2	88 to 300 VDC, 85 to 264 VAC	PWR-105- HV-I	-40 to 75° C
EDS-4008-4P-2GT- 2GS-LVA	–	–	–	–	4	2	2	44 to 57 VDC (> 52 VDC for PoE+ output recomme- nded)	PWR-101- LV-BP-I	-10 to 60° C
EDS-4008-4P-2GT- 2GS-LVA-T	–	–	–	–	4	2	2	44 to 57 VDC (> 52 VDC for PoE+ output recomme- nded)	PWR-101- LV-BP-I	-40 to 75° C

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-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-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-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-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-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-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-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-1FELLCT	SFP module with 1 100Base single-mode with LC connector for 80 km transmission, -40 to 85°C operating temperature
SFP-1FEMLC-T	SFP module with 1 100Base multi-mode, LC connector for 2/4 km transmission, -40 to 85°C operating temperature
SFP-1FESLC-T	SFP module with 1 100Base single-mode with LC connector for 40 km transmission, -40 to 85°C operating temperature

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

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