

EDS-4008 Series

8-port (with options of 4 802.3bt PoE ports or 4 Giga uplink ports) managed Ethernet switches



Features and Benefits

- Turbo Ring and Turbo Chain (recovery time < 20 ms @ 250 switches)¹, and RSTP/STP for network redundancy
- Support for IEEE 802.3bt PoE for up to 90 W output per port
- Wide range of power input options for flexible deployment
- Compact and flexible housing design to fit into confined spaces
- Supports MXstudio for easy, visualized industrial network management
- IEC 62443-4-2 Security Level 2 certified

Certifications



Introduction

The EDS-4008 Series is a range of 8-port managed Fast Ethernet switches with the option for four 1 Gbps uplink ports or two 100M ST/SC fiber-optic ports. This Series also offers models with four 10/100BaseT(X) 802.3af (PoE), 802.3at (PoE+), and 802.3bt-compliant Ethernet PoE port options to connect high-bandwidth PoE devices.

Redundant Ethernet technologies such as Turbo Ring, Turbo Chain, and RSTP/STP increase the reliability of your system and improve the availability of your network backbone. The EDS-4008 Series is designed specifically for demanding applications such as video and process monitoring, ITS, and DCS systems, all of which can benefit from a scalable backbone.

IEC 62443-4-2 Security Level 2 Certified

EDS-(G)4000 Series models are IEC 62443-4-2 Security Level 2 certified (<https://certificates.iecee.org/#!/deliverables/CERT/1605016/view>) helping our customers meet the compliance requirements of secure industrial network design.

Specifications

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-2GT-2GS-LVA/-LVB/-T models: 2
100/1000BaseSFP Slots	EDS-4008-2GT-2GS-LV/-HV/-T models 2

1. If the port link speed is 1 Gigabit or higher, the recovery time is < 50 ms.

	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																																																						
Optical Fiber	<table><tr><th colspan="2" rowspan="2"></th><th colspan="2">100BaseFX</th></tr><tr><th>Multi-Mode</th><th>Single-Mode</th></tr><tr><th rowspan="2">Fiber Cable Type</th><th rowspan="2">OM1</th><th>50/125 μm</th><th rowspan="2">G.652</th></tr><tr><th>800 MHz x km</th></tr><tr><th colspan="2">Typical Distance</th><td>4 km</td><td>5 km</td><td>40 km</td></tr><tr><th rowspan="3">Wavelength</th><th>Typical (nm)</th><td colspan="2">1300</td><td>1310</td></tr><tr><th>TX Range (nm)</th><td colspan="2">1260 to 1360</td><td>1280 to 1340</td></tr><tr><th>RX Range (nm)</th><td colspan="2">1100 to 1600</td><td>1100 to 1600</td></tr><tr><th rowspan="4">Optical Power</th><th>TX Range (dBm)</th><td colspan="2">-10 to -20</td><td>0 to -5</td></tr><tr><th>RX Range (dBm)</th><td colspan="2">-3 to -32</td><td>-3 to -34</td></tr><tr><th>Link Budget (dB)</th><td colspan="2">12</td><td>29</td></tr><tr><th>Dispersion Penalty (dB)</th><td colspan="2">3</td><td>1</td></tr><tr><td colspan="5">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).</td></tr></table>						100BaseFX		Multi-Mode	Single-Mode	Fiber Cable Type	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).				
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Ethernet Software Features

Industrial Protocols	EtherNet/IP Modbus TCP PROFINET IO Device
Management	IPv4/IPv6 Flow control Back Pressure Flow Control DHCP Server/Client ARP RARP LLDP Fiber check Port Mirroring (SPAN, RSPAN) Linkup Delay SMTP SNMP Trap SNMP Inform SNMPv1/v2c/v3 RMON TFTP SFTP HTTP HTTPS Telnet Syslog Private MIB

Filter	GMRP GVRP GARP 802.1Q VLAN IGMP Snooping v1/v2/v3 IGMP Querier
Redundancy Protocols	STP RSTP Turbo Ring v2 Turbo Chain Ring Coupling Dual-Homing Link Aggregation MSTP MRP
Security	Broadcast storm protection Rate Limit Trust access control Static Port Lock MAC Sticky HTTPS/SSL SSH RADIUS TACACS+ Access control list Login and Password Policy DHCP Snooping
Time Management	SNTP NTP Server/Client NTP Authentication IEEE 1588v2 PTP (hardware-based) Supported power profiles: IEEE 1588 Default 2008, IEC 61850-9-3-2016, IEEE C37.238-2017
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
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
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
Serial Interface	
Console Port	RS-232 (TxD, RxD, GND), 8-pin RJ45 (115200, n, 8, 1)
USB Interface	
USB Connector	USB Type A (Reserved)
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	
Connector	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 62443-4-2 Security Level 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
Maritime	-LV/-LV-T, PoE/PoE-T models: DNV, ABS, NK, LR
Vibration	IEC 60068-2-6
Shock	IEC 60068-2-27
Freefall	IEC 60068-2-32
Railway	EN 50121-4
Traffic Control	NEMA TS2
Power Substation	IEC 61850-3 IEEE 1613 Class 1
Hazardous Locations	-LV/-LV-T models: ATEX IECEX Class I Division 2

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 Standard SR-332

Warranty

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

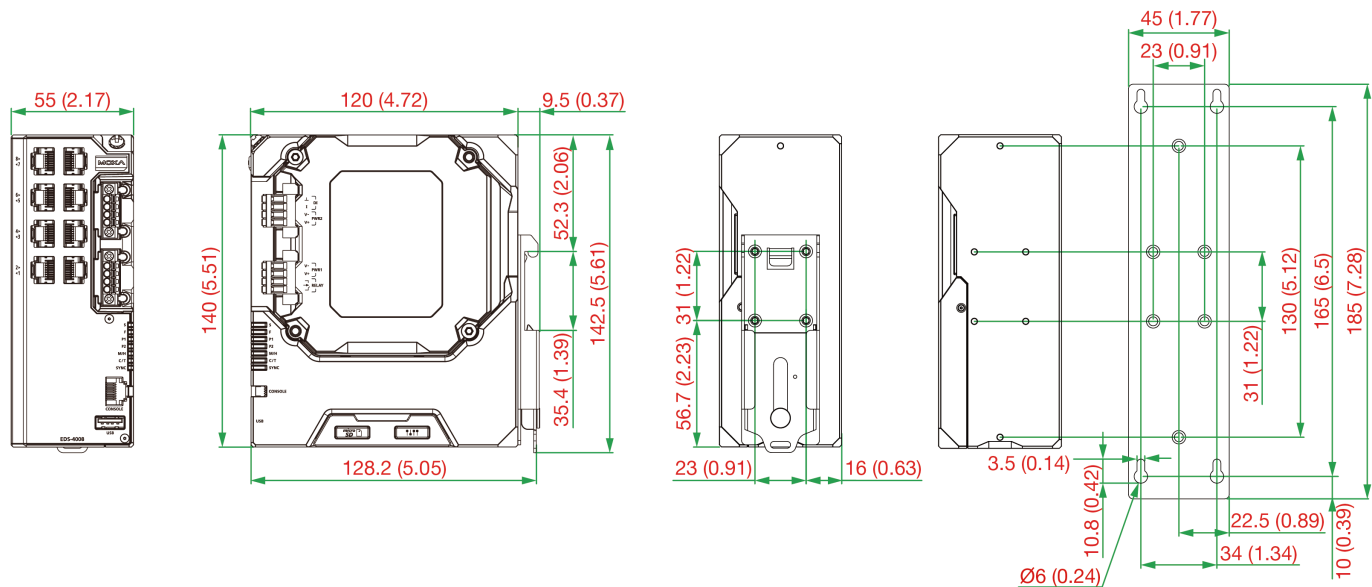
Package Contents

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

Dimensions

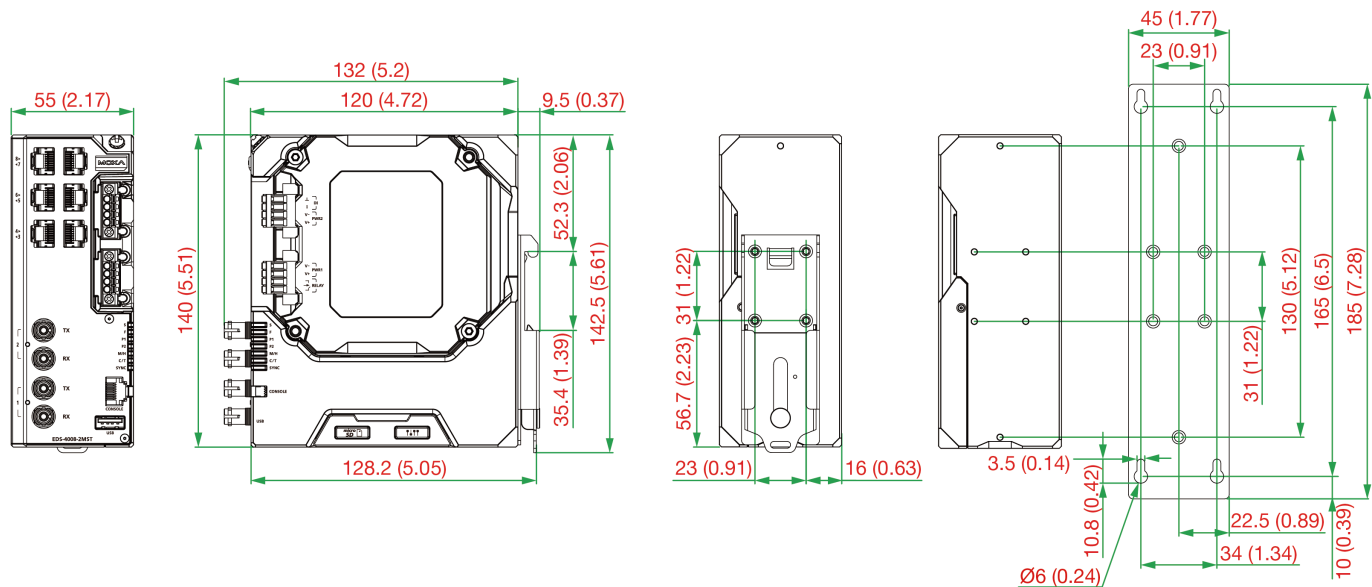
EDS-4008(-T), EDS-4008-2MSC(-T), EDS-4008-2SSC(-T) Models

Unit: mm (inch)



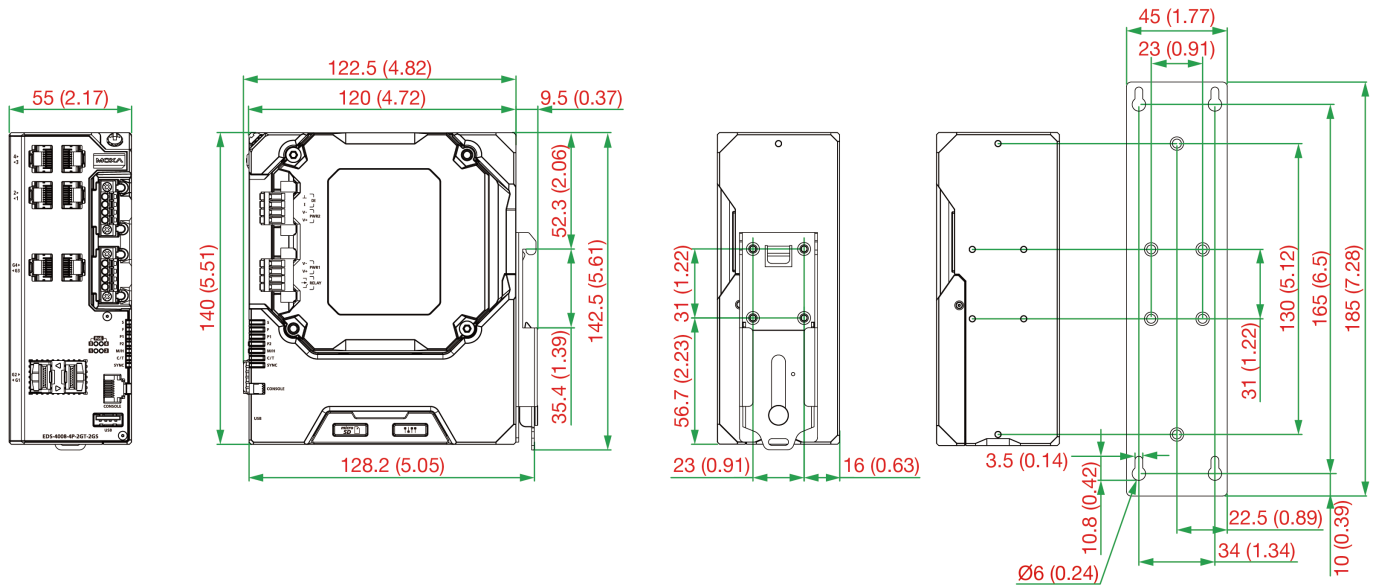
EDS-4008-2MST(-T) Models

Unit: mm (inch)



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

Unit: mm (inch)



Ordering Information

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
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

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-4008-2SSC-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 recommen- ded)	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 recommen- ded)	PWR-101- LV-BP-I	-40 to 75°C
EDS-4008-4P-2GT-2GS-LVB	–	–	–	–	4	2	2	12 to 57 VDC (> 52 VDC for PoE+ output recommen- ded)	PWR-103- LV-VB-I	-10 to 60°C
EDS-4008-4P-2GT-2GS-LVB-T	–	–	–	–	4	2	2	12 to 57 VDC (> 52 VDC for PoE+ output recommen- ded)	PWR-103- LV-VB-I	-40 to 75°C

Accessories (sold separately)

Storage Kits

ABC-02-USB	Configuration backup and restoration tool, firmware upgrade, and log file storage tool for managed Ethernet switches and routers, 0 to 60°C operating temperature
ABC-02-USB-T	Configuration backup and restoration tool, firmware upgrade, and log file storage tool for managed Ethernet switches and routers, -40 to 75°C operating temperature
ABC-03-microSD-T	MicroSD-based configuration backup and restoration tool, firmware upgrades, and log file storage tool for managed Ethernet switches and WLAN products, -40 to 85°C operating temperature

SFP Modules

SFP-1GEZXLC	SFP module with 1 1000BaseEZ port with LC connector for 110 km transmission, 0 to 60°C operating temperature
SFP-1GEZXLC-120	SFP module with 1 1000BaseEZ 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-1GLHXL	SFP module with 1 1000BaseLH port with LC connector for 40 km transmission, 0 to 60°C operating temperature
SFP-1GLSXL	SFP module with 1 1000BaseLS port with LC connector for 1 km/2km transmission, 0 to 60°C operating temperature
SFP-1GLXL	SFP module with 1 1000BaseLX port with LC connector for 10 km transmission, 0 to 60°C operating temperature
SFP-1GSXL	SFP module with 1 1000BaseSX port with LC connector for 300m/550m transmission, 0 to 60°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-1GLHLC-T	SFP module with 1 1000BaseLH port with LC connector for 30 km transmission, -40 to 85°C operating temperature
SFP-1GLHXL-T	SFP module with 1 1000BaseLH port with LC connector for 40 km transmission, -40 to 85°C operating temperature
SFP-1GLSXL-T	SFP module with 1 1000BaseLS port with LC connector for 1 km/2km transmission, -40 to 85°C operating temperature
SFP-1GLXL-T	SFP module with 1 1000BaseLX port with LC connector for 10 km transmission, -40 to 85°C operating temperature
SFP-1GSXL-T	SFP module with 1 1000BaseSX port with LC connector for 300m/550m transmission, -40 to 85°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
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-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-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-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-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-1FELL	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
SFP-1GTXRJ45-T	SFP module with 1 1000BaseT port with RJ45 connector for 100 m transmission, -40 to 75°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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