# EDS-G512E Series

## 12G-port (with 8 PoE+ ports option) full Gigabit managed Ethernet switches



#### **Features and Benefits**

- 8 IEEE 802.3af and IEEE 802.3at PoE+ standard ports
- 36-watt output per PoE+ port in high-power mode
- Turbo Ring and Turbo Chain (recovery time < 50 ms @ 250 switches), RSTP/ STP, and MSTP for network redundancy
- RADIUS, TACACS+, MAB Authentication, SNMPv3, IEEE 802.1X, MAC ACL, HTTPS, SSH, and sticky MAC-addresses to enhance network security
- EtherNet/IP, PROFINET, and Modbus TCP protocols supported for device management and monitoring
- · Supports MXstudio for easy, visualized industrial network management
- V-ON™ ensures millisecond-level multicast data and video network recovery

#### Certifications









#### Introduction

The EDS-G512E Series is equipped with 12 Gigabit Ethernet ports and up to 4 fiber-optic ports, making it ideal for upgrading an existing network to Gigabit speed or building a new full Gigabit backbone. It also comes with 8 10/100/1000BaseT(X), 802.3af (PoE), and 802.3at (PoE+)-compliant Ethernet port options to connect high-bandwidth PoE devices. Gigabit transmission increases bandwidth for higher performance and transfers large amounts of triple-play services across a network quickly.

Redundant Ethernet technologies such as Turbo Ring, Turbo Chain, RSTP/STP, and MSTP increase the reliability of your system and improve the availability of your network backbone. The EDS-G512E Series is designed specifically for communication demanding applications, such as video and process monitoring, ITS, and DCS systems, all of which can benefit from a scalable backbone construction.

#### **Additional Features and Benefits**

- · Command line interface (CLI) for guickly configuring major managed functions
- Advanced PoE management function (PoE port setting, PD failure check, and PoE scheduling)
- DHCP Option 82 for IP address assignment with different policies
- · Supports EtherNet/IP, PROFINET, and Modbus TCP protocols for device management and monitoring
- · IGMP snooping and GMRP for filtering multicast traffic
- Port-based VLAN, IEEE 802.1Q VLAN, and GVRP to ease network planning
- · Supports the ABC-02-USB (Automatic Backup Configurator) for system configuration backup/restore and firmware upgrade
- · Port mirroring for online debugging

- · QoS (IEEE 802.1p/1Q and TOS/DiffServ) to increase determinism
- · Port Trunking for optimum bandwidth utilization
- RADIUS, TACACS+, MAB Authentication, SNMPv3, IEEE 802.1X, MAC ACL, HTTPS, SSH, and sticky MAC address to enhance network
- SNMPv1/v2c/v3 for different levels of network management
- · RMON for proactive and efficient network monitoring
- Bandwidth management to prevent unpredictable network status
- Lock port function for blocking unauthorized access based on MAC address
- · Automatic warning by exception through email and relay output

#### **Specifications**

#### Input/Output Interface

The state of the s	
Alarm Contact Channels	1 Relay output with current carrying capacity of 1 A @ 24 VDC
Buttons	Reset button
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



#### Ethernet Interface

Ethernet Interface	
10/100/1000BaseT(X) Ports (RJ45 connector)	EDS-G512E-4GSFP: 8 Auto negotiation speed Full/Half duplex mode Auto MDI/MDI-X connection EDS-G512E-4GSFP-T: 8 Auto negotiation speed Full/Half duplex mode Auto MDI/MDI-X connection
PoE Ports (10/100/1000BaseT(X), RJ45 connector)	EDS-G512E-8PoE-4GSFP: 8 EDS-G512E-8PoE-4GSFP-T: 8
100/1000BaseSFP Slots	4
Standards	IEEE 802.3 for 10BaseT IEEE 802.3u for 100BaseT(X) and 100BaseFX IEEE 802.3ab for 1000BaseT(X) IEEE 802.3z for 1000BaseSX/LX/LHX/ZX IEEE 802.3x for flow control IEEE 802.1D-2004 for Spanning Tree Protocol IEEE 802.1w for Rapid Spanning Tree Protocol IEEE 802.1s for Multiple Spanning Tree Protocol IEEE 802.1p for Class of Service IEEE 802.1Q for VLAN Tagging IEEE 802.1X for authentication IEEE 802.3ad for Port Trunk with LACP
Ethernet Software Features	
Filter	802.1Q VLAN BPDU Filter BPDU Guard GMRP GVRP IGMP v1/v2/v3 Port-based VLAN
Industrial Protocols	EtherNet/IP Modbus TCP PROFINET IO Device
Management	LLDP Back Pressure Flow Control BOOTP Port Mirror DHCP Option 66/67/82 DHCP Server/Client Fiber check Flow control IPv4/IPv6 RARP RMON SCP SMTP SMMP Inform SNMPv1/v2c/v3 Syslog Telnet TFTP
MIB	Ethernet-like MIB MIB-II Bridge MIB P-BRIDGE MIB Q-BRIDGE MIB RMON MIB Groups 1, 2, 3, 9 RSTP MIB
Redundancy Protocols	Link Aggregation MRP MSTP



	RSTP STP Turbo Chain Turbo Ring v1/v2
Security	Broadcast storm protection HTTPS/SSL TACACS+ SNMPv3 MAB authentication Sticky MAC NTP authentication IP ACL MAC ACL Port Lock RADIUS SSH SMTP with TLS
Time Management	NTP Server/Client SNTP
Switch Properties	
IGMP Groups	2048
Jumbo Frame Size	9.6 KB
MAC Table Size	8 K
Max. No. of VLANs	256
Packet Buffer Size	4 Mbits
Priority Queues	4
VLAN ID Range	VID 1 to 4094
USB Interface	
Storage Port	USB Type A
LED Interface	
LED Indicators	PWR1, PWR2, STATE, FAULT, 10/100M (TP port), 1000M (TP port), 100/1000M (SFP port), MSTR/HEAD, CPLR/TAIL, smart PoE LED (EDS-G512E-8PoE-4GSFP Series only)
Serial Interface	
Console Port	USB-serial console (Type B connector)
DIP Switch Configuration	
DIP Switches	Turbo Ring, Master, Coupler, Reserve
Power Parameters	
Connection	2 removable 4-contact terminal block(s)
Input Current	EDS-G512E-4GSFP models: 0.34 A @ 24 VDC EDS-G512E-8PoE-4GSFP models: 5.30 A @ 48 VDC
Input Voltage	EDS-G512E-4GSFP models: 12/24/48/-48 VDC EDS-G512E-8PoE-4GSFP models: 48 VDC Redundant dual inputs
Operating Voltage	EDS-G512E-4GSFP models: 9.6 to 60 VDC EDS-G512E-8PoE-4GSFP models: 44 to 57 VDC (> 50 VDC for PoE+ output recommended)
Overload Current Protection	Supported



Reverse Polarity Protection   Supported	
EDS-G512E-8P0E-4GSFP: Max. 14.38 W full loading without EDS-G512E-8P0E-4GSFP: Max. 14.38 W full loading without EDS-G512E-8P0E-4GSFP: Max. 14.38 W full loading with EDS-G512E-8P0E-4GSFP: Men selecting a power supply, consumption.	
EDS-G512E-8P0E-4GSFP-T: Max. 14.36 W full loading with EDS-G512E-8P0E-4GSFP: When selecting a power supply, consumption.   EDS-G512E-8P0E-4GSFP-T: When selecting a power supply consumption.   EDS-G512E-8P0E-4GSFP-T: When selecting a power supply consumption.   Physical Characteristics	umption
Housing	vithout PDs' consumption oly, check the PD power
Dimensions	
Dimensions   79.2 x 135 x 137 mm (3.1 x 5.3 x 5.4 in)	
EDS-G512E-4GSFP: 1,440 g (3.18 lb)	
EDS-G512E-8PoE-4GSFP: 1,540 g (3,40 lb)	
### 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  EDS-G512E-4GSFP/EDS-G512E-8PoE-4GSFP models: UL 5 EDS-G512E-8PoE-4GSFP models: UL 5 EDS-G512E-8PoE-4GSFP models: EN 62368-1  EMC  EN 61000-6-2/-6-4  EMI  FCC Part 15B Class A  EMS  EDS-G512E-4GSFP: IEC 61000-4-2 ESD: Contact: 8 kV; Air: EDS-G512E-8PoE-4GSFP: IEC 61000-4-3 RS: 80 MHz to 1 GHz: 10 EDS-G512E-8PoE-4GSFP: IEC 61000-4-3 RS: 80 MHz to 1 GHz: 10 EDS-G512E-8PoE-4GSFP: IEC 61000-4-3 RS: 80 MHz to 1 GHz: EDS-G512E-8PoE-4GSFP: IEC 61000-4-3 RS: 80 MHz to 1 EDS-G512E-8PoE-4GSFP: IEC 61000-4-4 EFT: Power: 4 kV; Signal EDS-G512E-8PoE-4GSFP: IEC 61000-4-4 EFT: Power: 2 kV; EDS-G512E-8PoE-4GSFP: IEC 61000-4-4 EFT: Power: 4 kV; Signal EDS-G512E-4GSFP: IEC 61000-4-5 Surge: Power: 4 kV; Signal EDS-G512E-8PoE-4GSFP: IEC 61000-4-5 Surge: Power: 2 kV; EDS-G512E-8PoE-4GSFP-T: IEC 61000-4-5 Surge: Power: 2 kV; EDS-G512E-8PoE-	
Standard Models: -10 to 60°C (14 to 140°F)   Wide Temp. Models: -40 to 75°C (-40 to 167°F)	
Wide Temp. Models: -40 to 75°C (-40 to 167°F)	
Ambient Relative Humidity 5 to 95% (non-condensing)  Standards and Certifications  Safety EDS-G512E-4GSFP/EDS-G512E-8PoE-4GSFP models: UL 5 EDS-G512E-8PoE-4GSFP models: EN 62368-1  EMC EN 61000-6-2/-6-4  EMI FCC Part 15B Class A  EMS EDS-G512E-4GSFP: IEC 61000-4-2 ESD: Contact: 8 kV; Air: EDS-G512E-4GSFP: IEC 61000-4-3 RS: 80 MHz to 1 GHz: 10 EDS-G512E-8PoE-4GSFP: IEC 61000-4-3 RS: 80 MHz to 1 GHz: 10 EDS-G512E-8PoE-4GSFP-T: IEC 61000-4-3 RS: 80 MHz to 1 GHz: 10 EDS-G512E-8PoE-4GSFP-T: IEC 61000-4-3 RS: 80 MHz to 1 GHz: EDS-G512E-8PoE-4GSFP-T: IEC 61000-4-4 EFT: Power: 2 kV; EDS-G512E-8PoE-4GSFP: IEC 61000-4-4 EFT: Power: 2 kV; EDS-G512E-4GSFP: IEC 61000-4-4 EFT: Power: 2 kV; EDS-G512E-4GSFP: IEC 61000-4-5 Surge: Power: 4 kV; Sign EDS-G512E-4GSFP-T: IEC 61000-4-5 Surge: Power: 4 kV; Sign EDS-G512E-4GSFP: IEC 61000-4-5 Surge: Power: 2 kV; EDS-G512E-4GSFP-T: IEC 61000-4-5 Surge: Power: 2 kV; EDS-G512E-4GSFP-T: IEC 61000-4-5 Surge: Power: 2 kV; EDS-G512E-4GSFP-T: IEC 61000-4-5 Surge: Power: 2 kV; EDS-G512E-8PoE-4GSFP-T: IEC 61000-4-5 Surge: Power: 2 kV; EDS-G	
Standards and Certifications	
EDS-G512E-4GSFP/EDS-G512E-8PoE-4GSFP models: UL 5	
EDS-G512E-8PoE-4GSFP models: EN 62368-1  EMC  EN 61000-6-2/-6-4  EMI  FCC Part 15B Class A  EMS  EDS-G512E-4GSFP: IEC 61000-4-2 ESD: Contact: 8 kV; Air: EDS-G512E-4GSFP: IEC 61000-4-3 RS: 80 MHz to 1 GES-G512E-8PoE-4GSFP: IEC 61000-4-3 RS: 80 MHz to 1 GES-G512E-8PoE-4GSFP: IEC 61000-4-3 RS: 80 MHz to 1 GES-G512E-8PoE-4GSFP-T: IEC 61000-4-3 RS: 80 MHz to 1 GES-G512E-8PoE-4GSFP-T: IEC 61000-4-3 RS: 80 MHz to 1 GES-G512E-8PoE-4GSFP: IEC 61000-4-4 EFT: Power: 4 kV; SignateDS-G512E-8PoE-4GSFP: IEC 61000-4-4 EFT: Power: 2 kV; EDS-G512E-8PoE-4GSFP: IEC 61000-4-4 EFT: Power: 2 kV; EDS-G512E-4GSFP-T: IEC 61000-4-5 Surge: Power: 4 kV; SignateDS-G512E-8PoE-4GSFP: IEC 61000-4-5 Surge: Power: 4 kV; SignateDS-G512E-8PoE-4GSFP: IEC 61000-4-5 Surge: Power: 4 kV; SignateDS-G512E-4GSFP: IEC 61000-4-5 Surge: Power: 4 kV; SignateDS-G512E-4GSFP: IEC 61000-4-5 Surge: Power: 4 kV; SignateDS-G512E-8PoE-4GSFP: IEC 61000-4-5 Surge: Power: 2 kV; EDS-G512E-8PoE-4GSFP: IEC 61000-4-5 Surge: Power:	
EMS  EDS-G512E-4GSFP: IEC 61000-4-2 ESD: Contact: 8 kV; Air: EDS-G512E-4GSFP: IEC 61000-4-3 RS: 80 MHz to 1 GHz: 10 EDS-G512E-4GSFP: IEC 61000-4-3 RS: 80 MHz to 1 GHz: 10 EDS-G512E-4GSFP-T: IEC 61000-4-3 RS: 80 MHz to 1 GHz: EDS-G512E-4GSFP-T: IEC 61000-4-3 RS: 80 MHz to 1 GHz: EDS-G512E-8PoE-4GSFP-T: IEC 61000-4-4 EFT: Power: 4 kV; Signal EDS-G512E-8PoE-4GSFP: IEC 61000-4-4 EFT: Power: 2 kV; EDS-G512E-8PoE-4GSFP-T: IEC 61000-4-4 EFT: Power: 2 kV; EDS-G512E-8PoE-4GSFP-T: IEC 61000-4-5 Err: Power: 2 kV; EDS-G512E-8PoE-4GSFP: IEC 61000-4-5 Surge: Power: 4 kV; Signal EDS-G512E-8PoE-4GSFP: IEC 61000-4-5 Surge: Power: 2 kV; EDS-G512E-8PoE-4GSFP: IEC 61000-4-5 Surge: Power: 4 kV; Signal EDS-G512E-4GSFP-T: IEC 61000-4-5 Surge: Power: 4 kV; Signal EDS-G512E-4GSFP-T: IEC 61000-4-5 Surge: Power: 4 kV; Signal EDS-G512E-8PoE-4GSFP: IEC 61000-4-5 Surge: Power: 4 kV; Signal EDS-G512E-8PoE-4GSFP-T: IEC 61000-4-5 Surge: Power: 2 kV; EDS-G512E-8Po	JL 508
EMS  EDS-G512E-4GSFP: IEC 61000-4-2 ESD: Contact: 8 kV; Air: EDS-G512E-4GSFP: IEC 61000-4-3 RS: 80 MHz to 1 GHz: 10 EDS-G512E-8PoE-4GSFP: IEC 61000-4-3 RS: 80 MHz to 1 GHz: EDS-G512E-8PoE-4GSFP: IEC 61000-4-3 RS: 80 MHz to 1 GHz: EDS-G512E-4GSFP: IEC 61000-4-3 RS: 80 MHz to 1 GES-G512E-8PoE-4GSFP: IEC 61000-4-3 RS: 80 MHz to 1 EDS-G512E-4GSFP: IEC 61000-4-4 EFT: Power: 4 kV; Signal EDS-G512E-8PoE-4GSFP: IEC 61000-4-4 EFT: Power: 2 kV; EDS-G512E-8PoE-4GSFP: IEC 61000-4-4 EFT: Power: 2 kV; EDS-G512E-4GSFP: IEC 61000-4-5 Surge: Power: 4 kV; Signal EDS-G512E-4GSFP: IEC 61000-4-5 Surge: Power: 2 kV; EDS-G512E-8PoE-4GSFP: IEC 6100	
EDS-G512E-4GSFP: IEC 61000-4-3 RS: 80 MHz to 1 GHz: 10 EDS-G512E-8PoE-4GSFP: IEC 61000-4-3 RS: 80 MHz to 1 GHz: 10 EDS-G512E-4GSFP-T: IEC 61000-4-3 RS: 80 MHz to 1 GHz: EDS-G512E-4GSFP-T: IEC 61000-4-3 RS: 80 MHz to 1 EDS-G512E-8PoE-4GSFP-T: IEC 61000-4-3 RS: 80 MHz to 1 EDS-G512E-8PoE-4GSFP-T: IEC 61000-4-4 EFT: Power: 2 kV; Signal EDS-G512E-8PoE-4GSFP: IEC 61000-4-4 EFT: Power: 2 kV; EDS-G512E-4GSFP-T: IEC 61000-4-4 EFT: Power: 2 kV; EDS-G512E-4GSFP-T: IEC 61000-4-5 Surge: Power: 4 kV; Sign EDS-G512E-4GSFP: IEC 61000-4-5 Surge: Power: 2 kV; EDS-G512E-8PoE-4GSFP: IEC 61000-4-5 Surge: Power: 2 kV; EDS-G512E-8PoE-4GSFP-T: IEC 61000-4-5 Surge: Power: 2 kV; EDS-G512E-4GSFP-T: IEC 61000-4-5 Surge: Power: 2 kV; EDS-G	
Power Substation IEC 61850-3	:: 10 V/m 1 GHz: 20 V/m Hz: 10 V/m to 1 GHz: 20 V/m gnal: 4 kV kV; Signal: 2 kV 2 kV; Signal: 2 kV Signal: 4 kV Signal: 4 kV 2 kV; Signal: 4 kV 5ignal: 4 kV 2 kV; Signal: 2 kV
Railway EN 50121-4	
Traffic Control NEMA TS2	



Vibration	IEC 60068-2-6
Shock	IEC 60068-2-27
Freefall	IEC 60068-2-32
Maritime	EDS-G512E-4GSFP models: DNV, LR, ABS, NK
MTBF	
Time	EDS-G512E-4GSFP(-T) models: 803,337 hrs EDS-G512E-8PoE-4GSFP(-T) models: 788,215 hrs
Standards	Telcordia (Bellcore), GB
Warranty	
Warranty Period	5 years
Details	See www.moxa.com/warranty
Package Contents	
Device	1 x EDS-G512E Series switch
Cable	1 x USB type A male to USB type B male
Installation Kit	4 x cap, plastic, for RJ45 port
Documentation	1 x quick installation guide

1 x warranty card

1 x product notice, Simplified Chinese

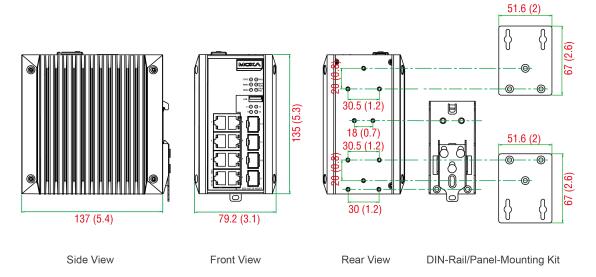
1 x product certificates of quality inspection, Simplified Chinese

SFP modules need to be purchased separately for use with this product.

## **Dimensions**

Unit: mm (inch)

Note



# **Ordering Information**

Model Name	10/100/1000BaseT(X) Ports, RJ45 Connector	PoE Ports, 10/100/ 1000BaseT(X), RJ45 Connector	IEEE 802.3af/at for PoE/PoE+ Output	100/1000Base SFP Slots	Operating Temp.
EDS-G512E-4GSFP	8	-	-	4	-10 to 60°C
EDS-G512E-4GSFP-T	8	-	-	4	-40 to 75°C
EDS-G512E-8PoE-4GSFP	-	8	✓	4	-10 to 60°C
EDS-G512E-8PoE-4GSFP-T	-	8	✓	4	-40 to 75°C

# **Accessories (sold separately)**

Storage	e 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

#### Power Supplies

Power Supplies	
HDR-60-24	$60W/2.5$ A DIN-rail 24 VDC power supply, universal 85 to 264 VAC or 120 to 370 VDC input voltage, -30 to $70^\circ\text{C}$ 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 $70^{\circ}$ 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 $70^{\circ}$ 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 $70^{\circ}$ 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

## **Rack-Mounting Kits**

RK-4U	19-inch rack-mounting kit
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Wall-Mounting Kits	
WK-51-01	Wall mounting kit with 2 plates (51.6 x 67 x 2 mm) and 6 screws
SFP Modules	
SFP-1FELLC-T	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-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 $60^{\circ}$ 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 $60^{\circ}$ 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-1GEZXLC	SFP module with 1 1000BaseEZX port with LC connector for 110 km transmission, 0 to 60°C operating temperature
SFP-1GEZXLC-120	SFP module with 1 1000BaseEZX port with LC connector for 120 km transmission, 0 to $60^{\circ}$ 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 1km/2km transmission, 0 to 60°C operating temperature
SFP-1GLSXLC-T	SFP module with 1 1000BaseLSX port with LC connector for 1km/2km 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 300m/550m transmission, 0 to 60°C operating temperature
SFP-1GSXLC-T	SFP module with 1 1000BaseSX port with LC connector for 300m/550m 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
SFP-1GTXRJ45-T	SFP module with 1 1000BaseT port with RJ45 connector for 100 m transmission, -40 to 75°C operating temperature

### Software

MXview-50	MXview license for 50 nodes
MXview-100	MXview license for 100 nodes
MXview-250	MXview license for 250 nodes
MXview-500	MXview license for 500 nodes
MXview-1000	MXview license for 1000 nodes
MXview-2000	MXview license for 2000 nodes
MXview Upgrade-50	MXview license expansion for 50 nodes



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