# MDS-G4020-4XGS Series

## 16 GbE + 4 10GbE-port Layer 2 full Gigabit modular managed Ethernet switches



#### **Features and Benefits**

- · Multiple interface type 4-port modules for greater versatility
- Up to 16 Gigabit Ethernet ports or SFP slots plus 4 embedded 10G Ethernet
- · Tool-free design for effortlessly adding or replacing modules without shutting down the switch
- · Ultra-compact size and multiple mounting options for flexible installation
- · Passive backplane to minimize maintenance efforts
- · Rugged die-cast design for use in harsh environments
- Intuitive, HTML5-based web interface for a seamless experience across different platforms

#### Certifications









### Introduction

The MDS-G4020-4XGS Series modular switches support 4 10GbE + 16 Gigabit ports, including 4 embedded ports, 4 interface module expansion slots, and 2 power module slots to ensure sufficient flexibility for a variety of applications. The highly compact MDS-G4020-4XGS Series is designed to meet evolving network requirements, ensuring effortless installation and maintenance, and features a hot-swappable module design that enables you to easily change or add modules without shutting down the switch or interrupting network operations.

The multiple Ethernet modules (RJ45 and SFP) and power units (24/48 VDC and 110/220 VAC/VDC) provide even greater flexibility as well as suitability for different operating conditions, delivering an adaptive full Gigabit platform that provides the versatility and bandwidth necessary to serve as an Ethernet aggregation/edge switch. Featuring a compact design that fits in confined spaces, multiple mounting methods, and convenient tool-free module installation, the MDS-G4020-4XGS Series switches enable versatile and effortless deployment without the need for highly skilled engineers. With multiple industry certifications and a highly durable housing, the MDS-G4020-4XGS Series can reliably operate in tough and hazardous environments such as power substations, mining sites, ITS, and oil and gas applications. Support for dual LV or HV power modules provides redundancy for high reliability and availability and also offers flexibility to accommodate the power requirements of different applications.

In addition, the MDS-G4020-4XGS Series features an HTML5-based, user-friendly web interface providing a responsive, smooth user experience across different platforms and browsers.

#### **Specifications**

#### Ethernet Interface

Pre-installed Modules	4 embedded 10Gigabit ports
Module	4 slots for optional 4-port FE/GE modules



**Slot Combination** See the LM-7000H module series datasheet for more information. Note: The required power module depends on the choice of LM-7000H module. Refer to the following power/module combination requirements. LM-7000H non-PoE modules: Any power module LM-7000H PoE modules: PWR-HV-P48-A, PWR-LV-P48-A only 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**

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
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 Loop Protection MSTP
Security	Broadcast storm protection Rate Limit Trust access control Static Port Lock MAC Sticky HTTPS/SSL SSH RADIUS TACACS+



	Login and Password Policy Secure Boot MAC Authentication Bypass Access control list
Time Management	SNTP IEEE 1588v2 PTP (hardware-based) NTP Server/Client NTP Authentication
Protocols	IPv4/IPv6 TCP/IP UDP ICMP ARP RARP 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
Power Substation	MMS
Switch Properties	
MAC Table Size	16 K
Max. No. of VLANs	256
VLAN ID Range	VID 1 to 4094
IGMP Groups	1024
Priority Queues	8
Packet Buffer Size	12 Mbits
Serial Interface	
Console Port	RS-232 (TxD, RxD, GND), 8-pin RJ45 (115200, n, 8, 1)
USB Interface	
USB Connector	USB Type A



Digital Inputs  1 (On MGMT Module)  1 (State 1 on Sal V for state 1 on Sal V for state 1 on Sal V for state 0 on Max. Input current: 8 m.M.  Alarm Contact Channels  2 (On MGMT, PWR1, PWR2 Module) Relay output with current carrying capacity of 2 A 8 30 VDC  Power Parameters  Input Voltage  With PWR-HV-P48-A installed: 10/220 VDC, 110 VAC, 60 Hz, 220 VAC, 50 Hz, PoE: 48 VDC With PWR-LV-P48-A installed: 24/48 VDC Max. 0.37 A 8 22 VDC Max. 0.37 A 9 02 VDC	Input/Output Interface	
### Annual Contact Channels    Sol to 43 V for state 0	Digital Input Channels	1 (On MGMT Module)
Power Parameters  Input Voltage  With PWR-HV-P48-A installed: 110/220 VDC, 110 VAC, 60 HZ, 220 VAC, 50 HZ, PoE: 48 VDC  With PWR-HV-P48-A installed: 24/48 VDC. With PWR-HV-P48-A installed: 110/220 VDC, 110 VAC, 60 HZ, 220 VAC, 50 HZ With PWR-HV-P48-A installed: 24/48 VDC.  With PWR-HV-P48-A installed: 24/48 VDC.  With PWR-HV-P48-A installed: 24/48 VDC.  With PWR-HV-P48-A installed: 88 to 300 VDC, 90 to 254 VAC, 47 to 63 Hz, PoE: 46 to 57 VDC  With PWR-HV-P48-A installed: 88 to 300 VDC, 90 to 254 VAC, 47 to 63 Hz, PoE: 46 to 57 VDC  With PWR-HV-P88-A installed: 88 to 300 VDC, 90 to 254 VAC, 47 to 63 Hz With PWR-HV-P89-A installed: 88 to 300 VDC, 90 to 254 VAC, 47 to 63 Hz With PWR-HV-P89-A installed: 88 to 300 VDC, 90 to 254 VAC, 47 to 63 Hz With PWR-HV-P89-A installed: 88 to 300 VDC, 90 to 254 VAC, 47 to 63 Hz With PWR-HV-P89-A installed: 88 to 300 VDC, 90 to 254 VAC, 47 to 63 Hz With PWR-HV-P89-A installed: 88 to 300 VDC, 90 to 254 VAC, 47 to 63 Hz With PWR-HV-P89-A installed: 88 to 300 VDC, 90 to 254 VAC, 47 to 63 Hz With PWR-HV-P89-A installed: 88 to 300 VDC, 90 to 254 VAC, 47 to 63 Hz With PWR-HV-P89-A installed: 88 to 300 VDC, 90 to 254 VAC, 47 to 63 Hz With PWR-HV-P89-A installed: 88 to 300 VDC, 90 to 254 VAC, 47 to 63 Hz With PWR-HV-P89-A installed: 88 to 300 VDC, 90 to 254 VAC, 47 to 63 Hz With PWR-HV-P89-A installed: 88 to 300 VDC, 90 to 254 VAC, 47 to 63 Hz With PWR-HV-P89-A installed: 88 to 300 VDC, 90 to 254 VAC, 47 to 63 Hz With PWR-HV-P89-A installed: 88 to 300 VDC, 90 to 254 VAC, 47 to 63 Hz With PWR-HV-P89-A installed: 88 to 300 VDC, 90 to 254 VAC, 47 to 63 Hz With PWR-HV-P89-A installed: 88 to 300 VDC, 90 to 254 VAC, 47 to 63 Hz With PWR-HV-P89-A installed: 88 to 300 VDC, 90 to 254 VAC, 47 to 63 Hz With PWR-HV-P89-A installed: 88 to 300 VDC, 90 to 254 VAC, 47 to 63 Hz With PWR-HV-P89-A installed: 88 to 300 VDC, 90 to 254 VAC, 47 to 63 Hz With PWR-HV-P89-A installed: 88 to 300 VDC, 90 to 254 VAC, 47 to 63 Hz With PWR-HV-P89-A installed: 88 to 300 VDC, 90 to 254 VAC, 47 to 63 Hz With PWR-HV-P89-A	Digital Inputs	-30 to +3 V for state 0
Input Voltage  With PWR-LV-P48-A installed: 110/220 VDC, 110 VAC, 60 Hz, 220 VAC, 50 Hz, PoE: 48 VDC  With PWR-LV-NP installed: 24/48 VDC  With PWR-LV-NP installed: 110/220 VDC, 110 VAC, 60 Hz, 220 VAC, 50 Hz  With PWR-LV-NP installed: 24/48 VDC  Operating Voltage  With PWR-LV-NP installed: 88 to 300 VDC, 90 to 264 VAC, 47 to 63 Hz, PoE: 46 to 57 VDC  With PWR-LV-P48-A installed: 88 to 300 VDC, 90 to 264 VAC, 47 to 63 Hz, PoE: 46 to 57 VDC  With PWR-LV-NP installed: 88 to 300 VDC, 90 to 264 VAC, 47 to 63 Hz  With PWR-LV-NP installed: 18 to 72 VDC  With PWR-LV-NP installed: 18 to 72 VDC  Input Current  With PWR-LV-NP installed: 18 to 72 VDC  Max. 0.38 A @ 110 VDC  Max. 0.38 A @ 110 VDC  Max. 0.75 A @ 220 VDC  Max. 0.75 A @ 240 VDC  Max. 0.75 A @ 48 VDC  Note: These are the input current ratings for the device with the maximum number of modules installed.  Power Consumption (Max.)  With PWR-LV-P48-A/PWR-HV-NP: Max. 41.8 W @ 210 VDC  Max. 39 A @ 220 VAC  With PWR-LV-P48-A/PWR-HV-NP: Max. 41.8 W @ 210 VDC  Max. 39 A @ 220 VAC  With PWR-LV-P48-A/PWR-HV-NP: Max. 79 a W @ 220 VDC  Max. 39 A @ 220 VAC  With PWR-LV-P48-A/PWR-LV-NP: Max. 79 a W @ 220 VDC  Max. 39 A @ 220 VAC  With PWR-LV-P48-A/PWR-LV-NP: Max. 79 a W @ 220 VDC  Max. 39 A @ 220 VAC  With PWR-LV-P48-A/PWR-LV-NP: Max. 79 a W @ 220 VDC  Max. 39 A @ 220 VAC  With PWR-LV-P48-A/PWR-LV-NP: Max. 79 a W @ 220 VDC  Max. 39 A @ 220 VAC  With PWR-LV-P48-A/PWR-LV-NP: Max. 79 a W @ 220 VDC  Max. 39 A @ 220 VAC  With PWR-LV-P48-A/PWR-LV-NP: Max. 79 a W @ 220 VDC  Max. 39 A @ 220 VAC  With PWR-LV-P48-A/PWR-LV-NP: Max. 79 a W @ 220 VDC  Max. 39 A @ 220 VAC  With PWR-LV-P48-A/PWR-LV-NP: Max. 79 a W @ 220 VDC  Max. 39 A @ 220 VAC  With PWR-LV-P48-A/PWR-LV-NP: Max. 79 a W @ 220 VDC  Max. 39 A @ 220 VAC  With PWR-LV-P48-A/PWR-LV-NP: Max. 79 a W @ 220 VDC  Max. 39 A @ 220 VAC  With PWR-LV-P48-A/PWR-LV-P48-A/PWR-LV-PIP: Max. 79 a W @ 220 VDC  Max. 30 A @ 220 VDC	Alarm Contact Channels	
110/220 VDC, 110 VAC, 60 HZ, 220 VAC, 50 Hz, PoE: 48 VDC With PWR-LV-P48-A installed: 24/48 VDC, PoE: 48 VDC With PWR-HV-NP installed: 110/220 VDC, 110 VAC, 60 HZ, 220 VAC, 50 Hz With PWR-HV-NP installed: 24/48 VDC  Operating Voltage  With PWR-HV-P48-A installed: 88 to 300 VDC, 90 to 284 VAC, 47 to 63 Hz, PoE: 46 to 57 VDC With PWR-LV-P48-A installed: 88 to 300 VDC, 90 to 284 VAC, 47 to 63 Hz, PoE: 46 to 57 VDC With PWR-HV-NP installed: 88 to 300 VDC, 90 to 284 VAC, 47 to 63 Hz With PWR-HV-NP installed: 88 to 300 VDC, 90 to 284 VAC, 47 to 63 Hz With PWR-HV-NP installed: 88 to 300 VDC, 90 to 284 VAC, 47 to 63 Hz With PWR-HV-NP installed: 88 to 300 VDC, 90 to 284 VAC, 47 to 63 Hz With PWR-HV-P48-A/PWR-HV-NP installed: Max. 0.38 & 0 HI 0 VDC Max. 0.75 & 0 HI 0 VDC Max. 0.75 & 0 HI 0 VDC Max. 0.75 & 0 HI 0 VDC Max. 3.0 A 0 24 VDC Max. 3.0 A 0 24 VDC Max. 3.0 A 0 24 VDC Max. 3.0 A 0 40 VDC Note: These are the input current ratings for the device with the maximum number of modules installed.  Power Consumption (Max.)  With PWR-HV-P48-A/PWR-HV-NP: Max. 41.8 W 110 VAC Max. 3.4 W 0 220 VDC Max. 41.5 W 110 VAC Max. 3.9 W 0 220 VDC Max. 41.5 W 0 220 VDC Max. 41.5 W 0 220 VDC Max. 3.9 W 0 220 VDC Max. 3.9 W 0 220 VDC Nax. 3.9 W 0 220 VDC Nax. 3.9 W 0 220 VDC Nax. 3.9 W 0 240 VDC Note: These are the maximum power consumption ratings for the device with the maximum number of modules installed.	Power Parameters	
88 to 300 VDC, 90 to 264 VAC, 47 to 63 Hz, PoE: 46 to 57 VDC  With PWR-I-V-P48-A installed: 18 to 72 VDC, PoE: 46 to 57 VDC  With PWR-HV-NP installed: 88 to 300 VDC, 90 to 264 VAC, 47 to 63 Hz  With PWR-I-V-NP installed: 18 to 72 VDC  Input Current  With PWR-I-V-NP installed: 18 to 72 VDC  Max. 0.33 A @ 110 VDC  Max. 0.17 A @ 220 VDC  Max. 0.37 A @ 220 VAC  With PWR-I-V-P48-A/PWR-I-V-NP installed: Max. 3.30 A @ 24 VDC  Max. 0.37 A @ 48 VDC  EPS (PoE models only): Max. 8.2 A @ 48 VDC  Note: These are the input current ratings for the device with the maximum number of modules installed.  Power Consumption (Max.)  With PWR-I-V-P48-A/PWR-I-V-NP: Max. 41.8 W @ 110 VAC  Max. 374 W @ 220 VAC  With PWR-I-V-P48-A/PWR-I-V-NP: Max. 41.5 W @ 110 VAC  Max. 374 W @ 220 VAC  With PWR-I-V-P48-A/PWR-I-V-NP: Max. 79.2 W @ 24 VDC  Max. 79.2 W @ 24 VDC  Max. 35.0 W @ 48 VDC  Note: These are the maximum power consumption ratings for the device with the maximum number of modules installed.	Input Voltage	110/220 VDC, 110 VAC, 60 HZ, 220 VAC, 50 Hz, PoE: 48 VDC  With PWR-LV-P48-A installed: 24/48 VDC, PoE: 48 VDC  With PWR-HV-NP installed 110/220 VDC, 110 VAC, 60 HZ, 220 VAC, 50 Hz  With PWR-LV-NP installed:
Max. 0.38 A @ 110 VDC Max. 0.17 A @ 220 VDC Max. 0.75 A @ 110 VAC Max. 0.37 A @ 220 VAC  With PWR-LV-P48-A/PWR-LV-NP installed: Max. 3.30 A @ 24 VDC Max. 0.73 A @ 48 VDC  EPS (PoE models only): Max. 8.2 A @ 48 VDC  Note: These are the input current ratings for the device with the maximum number of modules installed.  Power Consumption (Max.)  With PWR-HV-P48-A/PWR-HV-NP: Max. 41.8 W @ 110 VDC Max. 37.4 W @ 220 VDC Max. 37.4 W @ 220 VDC Max. 44.15 W @ 110 VAC Max. 39.63 W @ 220 VAC  With PWR-LV-P48-A/PWR-LV-NP: Max. 79.2 W @ 24 VDC Max. 35.0 W @ 48 VDC  Note: These are the maximum power consumption ratings for the device with the maximum number of modules installed.	Operating Voltage	88 to 300 VDC, 90 to 264 VAC, 47 to 63 Hz, PoE: 46 to 57 VDC  With PWR-LV-P48-A installed: 18 to 72 VDC, PoE: 46 to 57 VDC  With PWR-HV-NP installed: 88 to 300 VDC, 90 to 264 VAC, 47 to 63 Hz  With PWR-LV-NP installed:
Max. 41.8 W @ 110 VDC Max. 37.4 W @ 220 VDC Max. 44.15 W @ 110 VAC Max. 39.63 W @ 220 VAC  With PWR-LV-P48-A/PWR-LV-NP: Max. 79.2 W @ 24 VDC Max. 35.0 W @ 48 VDC  Note: These are the maximum power consumption ratings for the device with the maximum number of modules installed.	Input Current	Max. 0.38 A @ 110 VDC Max. 0.17 A @ 220 VDC Max. 0.75 A @ 110 VAC Max. 0.37 A @ 220 VAC  With PWR-LV-P48-A/PWR-LV-NP installed: Max. 3.30 A @ 24 VDC Max. 0.73 A @ 48 VDC  EPS (PoE models only): Max. 8.2 A @ 48 VDC  Note: These are the input current ratings for the device with the maximum number of
Overload Current Protection Supported	Power Consumption (Max.)	Max. 41.8 W @ 110 VDC Max. 37.4 W @ 220 VDC Max. 44.15 W @ 110 VAC Max. 39.63 W @ 220 VAC  With PWR-LV-P48-A/PWR-LV-NP: Max. 79.2 W @ 24 VDC Max. 35.0 W @ 48 VDC  Note: These are the maximum power consumption ratings for the device with the
	Overload Current Protection	Supported



Reverse Polarity Protection

Supported

Max. PoE Power Output per Port	36 W
Total PoE Power Budget	Max. 360 W (with one power supply) for total PD consumption at 48 VDC input for PoE systems
	Max. 360 W (with one power supply) for total PD consumption at 53 to 57 VDC input for PoE+ systems
	Max. 720 W (with two power supplies) for total PD consumption at 48 VDC input for PoE systems
	Max. 720 W (with two power supplies) for total PD consumption at 53 to 57 VDC input for PoE+ systems $$
Physical Characteristics	
IP Rating	IP40
Dimensions	239 x 115 x 163.25 mm (9.41 x 4.53 x 6.43 in) 254 x 115 x 163.25 mm (10 x 4.53 x 6.43 in) with dual PWR-HV-P48-A/PWR-LV-P48-A power modules installed
Weight	3,400 g (7.50 lb)
Installation	DIN-rail mounting Wall mounting (with optional kit) Rack mounting (with optional kit)
Environmental Limits	
Operating Temperature	-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	EN 62368-1 IEC 62368-1 UL 62368-1 IEC 60950-1 UL 61010-2-201 EN 61010-2-201
EMC	EN 55032/35 EN 61000-6-2/-6-4
ЕМІ	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 IEC 61000-4-11
Railway	EN 50121-4
Traffic Control	NEMA TS2
Shock	IEC 60068-2-27
Freefall	IEC 60068-2-31
Vibration	IEC 60068-2-6
Power Substation	IEC 61850-3 IEEE 1613

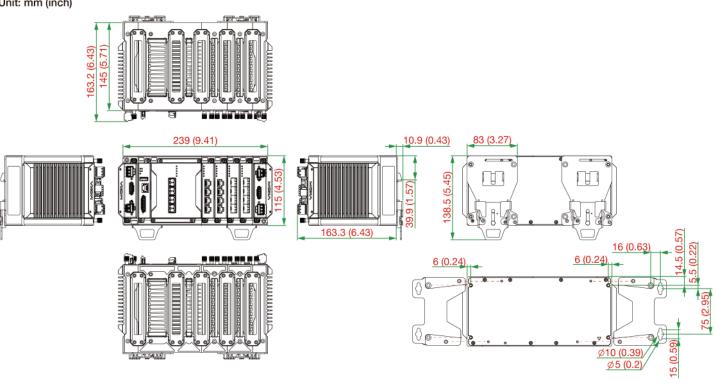


### MTBF

Time	794,302 hrs
Standards	Telcordia SR332
Warranty	
Warranty Period	5 years
Details	See www.moxa.com/warranty
Package Contents	
Device	1 x MDS-G4020-4XGS Series switch
Installation Kit	Preinstalled, 2 x DIN-rail kit 4 x cap, plastic, for SFP+ slots
Documentation	<ul> <li>1 x quick installation guide</li> <li>1 x product notice, Simplified Chinese</li> <li>1 x product certificates of quality inspection, Simplified Chinese</li> <li>1 x warranty card</li> </ul>
Note	This product requires additional modules (sold separately) to function.

### **Dimensions**

Unit: mm (inch)



# **Ordering Information**

Model Name	Layer	Total No. of Ports	10G SFP+ Slots	100/1000Base SFP Slots	10/100/ 1000BaseT(X) Ports RJ45 Connector	10/100BaseT(X) Ports RJ45 Connector	Operating Temp.
MDS-G4020-4XGS-T	2	20	4	Up to 16	Up to 16	Up to 16	-40 to 75°C



# **Accessories (sold separately)**

LM-7000H-4GPoE Gigabit Ether  LM-7000H-4GSFP Gigabit Ether	rnet module with 4 10/100/1000BaseT(X) ports rnet module with 4 10/100/1000BaseT(X) IEEE 802.3af/at PoE+ ports rnet module with 4 100/1000BaseSFP slots
LM-7000H-4GSFP Gigabit Ether	·
	net module with 4 100/1000BaseSFP slots
LM-7000H-4TX Fast Ethernet	
	t module with 4 10/100BaseT(X) ports
LM-7000H-4PoE Fast Ethernet	t module with 4 10/100BaseT(X) IEEE 802.3af/at PoE+ ports
Power Modules	
PWR-LV-P48-A 24/48 VDC pc	ower supply module with system power, relay, PoE power input, advanced heat sink
PWR-HV-P48-A 110/220 VAC sink	/VDC power supply module with system power, relay, PoE power input, advanced heat
PWR-LV-NP Power supply	module (24/48 VDC) with system power input, relay
PWR-HV-NP Power supply	module (110/220 VAC/VDC) with system power input, relay
Wall-Mounting Kits	
WK-112-01 Wall-mountin	ng kit, 2 plates, 8 screws
Rack-Mounting Kits	
RK-3U-02 Rack-mounti	ng kit with 4 L-shaped plates for the MDS-G4000 and MDS-G4000-4XGS Series
SFP Modules	
	e with 1 10GBase-ER port, LC connector for 40 km transmission, -40 to 85°C operating
SFP-10GLRLC-T SFP+ module temperature	e with 1 10GBase-LR port, LC connector for 10 km transmission, -40 to 85°C operating
	with 1 10GBase-SR port, LC connector for 33m/82m/300m/400m transmission, -40 to ng temperature
SFP-10GZRLC-T SFP+ module temperature	with 1 10GBase-ZR port, LC connector for 80 km transmission, -40 to 85°C operating
SFP-1FELLC-T SFP module operating ten	with 1 100Base single-mode with LC connector for 80 km transmission, -40 to 85°C nperature
SFP-1FEMLC-T SFP module temperature	with 1 100Base multi-mode, LC connector for 2/4 km transmission, -40 to 85°C operating
SFP-1FESLC-T SFP module to operating ten	with 1 100Base single-mode with LC connector for 40 km transmission, -40 to 85°C nperature
	BiDi) SFP module with 1 1000BaseSFP port with LC connector for 10 km transmission; TX 1550 nm, 0 to 60°C operating temperature
	BiDi) SFP module with 1 1000BaseSFP port with LC connector for 10 km transmission; TX 1550 nm, -40 to 85°C operating temperature
	BiDi) SFP module with 1 1000BaseSFP port with LC connector for 10 km transmission; TX 1310 nm, 0 to 60°C operating temperature
	BiDi) SFP module with 1 1000BaseSFP port with LC connector for 10 km transmission; TX 1310 nm, -40 to 85°C operating temperature
	BiDi) SFP module with 1 1000BaseSFP port with LC connector for 20 km transmission; TX 1550 nm, 0 to 60°C operating temperature
	BiDi) SFP module with 1 1000BaseSFP port with LC connector for 20 km transmission; TX 1550 nm, -40 to 85°C operating temperature
	BiDi) SFP module with 1 1000BaseSFP port with LC connector for 20 km transmission; TX 1310 nm, 0 to 60°C operating temperature
	BiDi) SFP module with 1 1000BaseSFP port with LC connector for 20 km transmission; TX 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°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 $75^{\circ}$ 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 $70^\circ\text{C}$ 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°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
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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