# **MDS-G4020-L3 Series**

## 20G-port Layer 3 full Gigabit modular managed Ethernet switches



#### **Features and Benefits**

- · Layer 3 routing interconnects multiple LAN segments
- · Multiple interface type 4-port modules for greater versatility
- Tool-free design for effortlessly adding or replacing modules without shutting down the switch
- Ultra-compact size and multiple mounting options for flexible installation
- · 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–L3 Series modular switches support up to 20 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-G4000–L3 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, SFP, and PoE+) and power units (24/48 VDC, 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-G4000–L3 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-G4000 Series can reliably operate in tough and hazardous environments such as power substations, mining sites, ITS, and oil and gas applications. Support for dual power modules provides redundancy for high reliability and availability while LV and HV power module options offer additional flexibility to accommodate the power requirements of different applications.

Support for Layer 3 routing functionality enables these switches to facilitate the deployment of applications across different networks, making them ideal for large-scale industrial networks. In addition, the MDS-G4000–L3 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 Gigabit ports
Module	4 slots for optional 4-port FE/GE modules



Slot Combination	I
------------------	---

Standards

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, PWR-LV-P48 only

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 IEEE 802.3af/at for PoE/PoE+ output

#### **Ethernet Software Features**

Management	IPv4 Flow control Back Pressure Flow Control ARP DHCP Relay Agent (Option 82) Fiber check RARP LLDP Port Mirroring (SPAN, RSPAN) Linkup Delay SMTP SNMP Trap SNMP Trap SNMP Inform SNMPv1/v2c/v3 RMON TFTP SFTP HTTPS Telnet Syslog Private MIB Loopback interface
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 MRP MSTP Network Loop Protection
Routing Redundancy	VRRP
Security	Access control list Broadcast storm protection DHCP Snooping



	Dynamic ARP Inspection IP Source Guard Rate Limit Trust access control Static Port Lock MAC authentication bypass MAC Sticky HTTPS/SSL SSH RADIUS TACACS+ Login and Password Policy
Time Management	SNTP NTP Server/Client NTP Authentication
Protocols	IPv4 TCP/IP UDP ICMP ARP RARP TFTP DNS NTP Client EtherNet/IP 802.1X QoS HTTPS HTTP Modbus TCP Telnet SMTP SNMPv1/v2c/v3 RMON Syslog
Unicast Routing	OSPF Static Route
MIB	P-BRIDGE MIB Q-BRIDGE MIB IEEE8021-SPANNING-TREE-MIB IEEE8023-LAG-MIB ILLDP-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 К
Max. No. of VLANs	256
VLAN ID Range	VID 1 to 4094
IGMP Groups	1024
Jumbo Frame Size	9.216 KB
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 Interface	
USB Connector	USB Type A (Reserved)
Input/Output Interface	
Digital Input Channels	1 (On MGMT Module)
Digital Inputs	+13 to +30 V for state 1 -30 to +3 V for state 0 Max. input current: 8 mA
Alarm Contact Channels	3 (On MGMT, PWR1, PWR2 Module) Relay output with current carrying capacity of 2 A @ 30 VDC
Power Parameters	
Input Voltage	With PWR-HV-P48 installed: 110/220 VDC, 110 VAC, 60 HZ, 220 VAC, 50 Hz, PoE: 48 VDC With PWR-LV-P48 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: 24/48 VDC
Operating Voltage	With PWR-HV-P48 installed: 88 to 300 VDC, 90 to 264 VAC, 47 to 63 Hz, PoE: 46 to 57 VDCWith PWR-LV-P48 installed: 18 to 72 VDC (24/48 VDC for hazardous location), PoE: 46 to 57 VDC (48 VDC for hazardous location)With PWR-HV-NP installed: 88 to 300 VDC, 90 to 264 VAC, 47 to 63 HzWith PWR-LV-NP installed: 18 to 72 VDC
Input Current	With PWR-HV-P48/PWR-HV-NP installed: Max. 0.30 A @ 110 VDC Max. 0.15 A @ 220 VDC Max. 0.60 A @ 110 VAC Max. 0.40 A @ 220 VAC With PWR-LV-P48/PWR-LV-NP installed: Max. 1.5 A @ 24 VDC Max. 0.75 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/PWR-HV-NP installed: Max. 33.0 W @ 110 VDC Max. 34.0 W @ 220 VDC Max. 35.8 W @ 110 VAC Max. 38.0 W @ 220 VACWith PWR-LV-P48/PWR-LV-NP installed: Max. 36.0 W @ 24 VDC Max. 36.0 W @ 48 VDCNote: These are the maximum power consumption ratings for the device with the maximum number of modules installed.
Max. PoE Power Output per Port	36 W



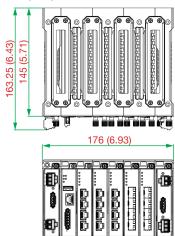
Total PoE Power Budget	Max. 360 W (with one power supply) for total PD consumption at 48 VDC input for PoE systems
	Max. 360 W (with one power supply) for total PD consumption at 53 to 57 VDC input for PoE+ systems
	Max. 720 W (with two power supplies) for total PD consumption at 48 VDC input for PoE systems
	Max. 720 W (with two power supplies) for total PD consumption at 53 to 57 VDC input for PoE+ systems
Overload Current Protection	Supported
Reverse Polarity Protection	Supported
Physical Characteristics	
IP Rating	IP40
Dimensions	176 x 115 x 163.25 mm (6.93 x 4.53 x 6.44 in)
Weight	2500 g (5.51 lb)
Installation	DIN-rail mounting Wall mounting (with optional kit) Rack mounting (with optional kit)
Environmental Limits	
Operating Temperature	Standard Temp 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	EN 62368-1 IEC 62368-1 UL 62368-1 IEC 60950-1
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 IEC 61000-4-11: Voltage Dips and Voltage Interruptions
Railway	EN 50121-4
Traffic Control	NEMA TS2
Shock	IEC 60068-2-27
Freefall	IEC 60068-2-31
Vibration	IEC 60068-2-6

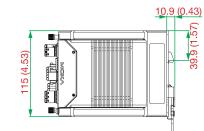


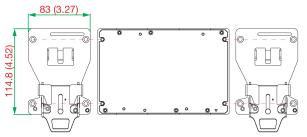
Hazardous Locations	Class I Division 2 ATEX
Power Substation	IEEE 1613 IEC 61850-3
MTBF	
Time	1,007,790 hrs
Standards	Telcordia SR332
Warranty	
Warranty Period	5 years
Details	See www.moxa.com/warranty
Package Contents	
Device	1 x MDS-G4020-L3 Series switch
Cable	1 x RJ45-to-DB9 console cable
Installation Kit	(Pre-installed) 2 x DIN-rail kit 2 x cap, plastic, for RJ45 port
Documentation	<ol> <li>x quick installation guide</li> <li>x product notice, Simplified Chinese</li> <li>x product certificates of quality inspection, Simplified Chinese</li> <li>x warranty card</li> </ol>
Note	This product requires additional modules (sold separately) to function.

## Dimensions

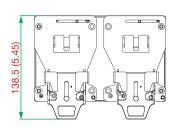








DIN-Rail Mount



# **Ordering Information**

Model Name	Layer	Total No. of Ports	100/ 1000BaseSFP Slots	10/100/ 1000BaseT(X) Ports (RJ45 Connector)	PoE 10/100/ 1000BaseT(X) Ports (RJ45 Connector)	10/ 100BaseT(X) Ports (RJ45 Connector)	PoE 10/ 100BaseT(X) Ports (RJ45 Connector)	Operating Temp.
MDS-G4020-L3	3	20	Up to 16	Up to 20	Up to 16	Up to 16	Up to 16	-10 to 60°C
MDS-G4020-L3-T	3	20	Up to 16	Up to 20	Up to 16	Up to 16	Up to 16	-40 to 75°C



# Accessories (sold separately)

### LM-7000H Module Series

LM-7000H Module Series	
LM-7000H-4GTX	Gigabit Ethernet module with 4 10/100/1000BaseT(X) ports
LM-7000H-4GPoE	Gigabit Ethernet module with 4 10/100/1000BaseT(X) IEEE 802.3af/at PoE+ ports
LM-7000H-4GSFP	Gigabit Ethernet module with 4 100/1000BaseSFP slots
LM-7000H-4TX	Fast Ethernet module with 4 10/100BaseT(X) ports
LM-7000H-4PoE	Fast Ethernet module with 4 10/100BaseT(X) IEEE 802.3af/at PoE+ ports
Power Modules	
PWR-LV-P48	Power supply module (24/48 VDC) with system power input, relay, PoE power input
PWR-HV-P48	Power supply module (110/220 VAC/VDC) with system power input, relay, PoE power input
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-mounting kit, 2 plates, 8 screws
Rack-Mounting Kits	
RK-3U-02	Rack-mounting kit with 4 L-shaped plates for the MDS-G4000 and MDS-G4000-4XGS Series
SFP Modules	
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 $85^{\circ}$ C operating temperature
SFP-1FELLC-T	SFP module with 1 100Base single-mode 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-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°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 $85^{\circ}$ 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-1GLXLC         SFP module with 11000BaseLX port with LC connector for 300m/650m transmission, -40 to 85°C           SFP-1GLXSLC-T         SFP module with 11000BaseLX port with LC connector for 1km/2km transmission, 0 to 60°C           SFP-1GLXSLC-T         SFP module with 11000BaseLX port with LC connector for 1km/2km transmission, 0 to 80°C           SFP-1GLXLC         SFP module with 11000BaseLX port with LC connector for 1km/2km transmission, 0 to 80°C operating temperature           SFP-1GLXLC         SFP module with 11000BaseLX port with LC connector for 10 km transmission, -40 to 85°C operating temperature           SFP-1GLKLC-T         SFP module with 11000BaseLX port with LC connector for 30 km transmission, -40 to 85°C operating temperature           SFP-1GLHLC         SFP module with 11000BaseLH port with LC connector for 30 km transmission, -40 to 85°C operating temperature           SFP-1GLHXLC-T         SFP module with 11000BaseLH port with LC connector for 30 km transmission, -40 to 85°C operating temperature           SFP-1GLHXLC         SFP module with 11000BaseLX port with LC connector for 40 km transmission, -40 to 85°C operating temperature           SFP-1GLKXLC         SFP module with 11000BaseLX port with LC connector for 40 km transmission, 0 to 60°C operating temperature           SFP-1GLKXLC         SFP module with 11000BaseLX port with LC connector for 40 km transmission, 0 to 80°C operating temperature           SFP-1GLXLC         SFP module with 11000BaseLX port with LC connector for 100 km transmission, 0 to 80°C operating temperature	SFP-1GSXLC	SFP module with 1 1000BaseSX port with LC connector for 300m/550m transmission, 0 to 60°C
SFP-1GLSXLC         SFP module with 11000BaseLSX port with LC connector for 1km/2km transmission, 40 to 85°C           SFP-1GLSXLC-T         SFP module with 11000BaseLX port with LC connector for 1km/2km transmission, 40 to 85°C           SFP-1GLXLQ         SFP module with 11000BaseLX port with LC connector for 1km/2km transmission, 40 to 85°C operating temperature           SFP-1GLXLC-T         SFP module with 11000BaseLX port with LC connector for 10 km transmission, 40 to 85°C operating temperature           SFP-1GLHLC         SFP module with 11000BaseLX port with LC connector for 30 km transmission, 40 to 85°C operating temperature           SFP-1GLHLC-T         SFP module with 11000BaseLH port with LC connector for 30 km transmission, 40 to 85°C operating temperature           SFP-1GLHXLC         SFP module with 11000BaseLHX port with LC connector for 40 km transmission, 40 to 85°C operating temperature           SFP-1GLHXLC-T         SFP module with 11000BaseLHX port with LC connector for 40 km transmission, 40 to 85°C operating temperature           SFP-1GLXLC         SFP module with 11000BaseLX port with LC connector for 40 km transmission, 40 to 85°C operating temperature           SFP-1GLXLC         SFP module with 11000BaseLX port with LC connector for 100 km transmission, 40 to 85°C operating temperature           SFP-1GLXLC         SFP module with 11000BaseLX port with LC connector for 100 km transmission, 40 to 85°C operating temperature           SFP-1GZXLC         SFP module with 11000BaseLX port with LC connector for 100 km transmission, 40 to 85°C operating temperature	SFP-1GSXLC-T	•
SFP-1GLSXLC-T         SFP module with 1 000BaseLSX port with LC connector for 1km/2km transmission, -40 to 85°C operating temperature           SFP-1GLXLG         SFP module with 1 1000BaseLX port with LC connector for 10 km transmission, -40 to 85°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-1GLHLC         SFP module with 1 1000BaseLX port with LC connector for 30 km transmission, -40 to 85°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, -40 to 85°C operating temperature           SFP-1GLHXLC-T         SFP module with 1 1000BaseLX port with LC connector for 40 km transmission, -40 to 85°C operating temperature           SFP-1GLKLC         SFP module with 1 1000BaseZX port with LC connector for 80 km transmission, -40 to 85°C operating temperature           SFP-1GLXLC         SFP module with 1 1000BaseZX port with LC connector for 80 km transmission, -40 to 85°C operating temperature           SFP-1GEXLC         SFP module with 1 1000BaseZX port with LC connector for 100 km transmission, -40 to 85°C operating temperature           SFP-1GEXLC-T         SFP module with 1 1000BaseZX port with LC connector for 100 km transmission, -40 to 85°C operating temperature           SFP-1GEXLC         SFP module with 1 1000BaseZX port with LC connector for 100 km	SFP-1GLSXLC	SFP module with 1 1000BaseLSX port with LC connector for 1km/2km transmission, 0 to 60°C
Operating temperature           SFP-1GLXLC         SFP module with 11000BaseLX port with LC connector for 10 km transmission, 0 to 80°C operating temperature           SFP-1GLHLC         SFP module with 11000BaseLX port with LC connector for 30 km transmission, -40 to 85°C operating temperature           SFP-1GLHLC         SFP module with 11000BaseLH port with LC connector for 30 km transmission, -40 to 85°C operating temperature           SFP-1GLHLC-T         SFP module with 11000BaseLH port with LC connector for 30 km transmission, -40 to 85°C operating temperature           SFP-1GLHXLC         SFP module with 11000BaseLHX port with LC connector for 40 km transmission, -40 to 85°C operating temperature           SFP-1GLHXLC-T         SFP module with 11000BaseLX port with LC connector for 80 km transmission, -40 to 85°C operating temperature           SFP-1GLHXLC-T         SFP module with 11000BaseZX port with LC connector for 80 km transmission, -40 to 85°C operating temperature           SFP-1GZXLC         SFP module with 11000BaseZX port with LC connector for 80 km transmission, -40 to 85°C operating temperature           SFP-1GEXLC-120         SFP module with 11000BaseZX port with LC connector for 100 km transmission, -40 to 85°C operating temperature           SFP-1GEXLC-120         SFP module with 11000BaseZX port with LC connector for 100 km transmission, -40 to 85°C operating temperature           SFP-1GEXLC-120         SFP module with 11000BaseZX port with LC connector for 100 km transmission, -40 to 85°C operating temperature           SFP-1GEXLC-120         SFP mod		
Interpretative         Interpretative           SFP-1GLXLC-T         SFP module with 1 1000BaseLX port with LC connector for 10 km transmission, -40 to 85°C operating           SFP-1GLHLC         SFP module with 1 1000BaseLH port with LC connector for 30 km transmission, -40 to 85°C operating           SFP-1GLHLC-T         SFP module with 1 1000BaseLH port with LC connector for 30 km transmission, -40 to 85°C operating           SFP-1GLHXLC         SFP module with 1 1000BaseLHX port with LC connector for 40 km transmission, -40 to 85°C operating           SFP-1GLXLC-T         SFP module with 1 1000BaseLX port with LC connector for 40 km transmission, -40 to 85°C operating           SFP-1GZXLC         SFP module with 1 1000BaseZX port with LC connector for 80 km transmission, -40 to 85°C operating           SFP-1GZXLC         SFP module with 1 1000BaseZX port with LC connector for 80 km transmission, -40 to 85°C operating           SFP-1GZXLC         SFP module with 1 1000BaseZX port with LC connector for 10 km transmission, -40 to 85°C operating           SFP-1GZXLC         SFP module with 1 1000BaseZX port with LC connector for 10 km transmission, -40 to 85°C operating           SFP-1GZXLC         SFP module with 1 1000BaseZX port with LC connector for 10 km transmission, -40 to 60°C operating           SFP-1GEZXLC         SFP module with 1 1000BaseZX port with LC connector for 120 km transmission, -40 to 60°C operating           SFP-1GEZXLC         SFP module with 1 1000BaseZX port with LC connector for 120 km transmission, -40 to 60°C operating temperature	SFP-1GLSXLG-1	
Interpretative           SFP-1GLHLC         SFP module with 11000BaseLH port with LC connector for 30 km transmission, 0 to 60°C operating temperature           SFP-1GLHLC-T         SFP module with 11000BaseLH port with LC connector for 30 km transmission, -40 to 85°C operating temperature           SFP-1GLHXLC         SFP module with 11000BaseLHX port with LC connector for 40 km transmission, -40 to 85°C operating temperature           SFP-1GLHXLC-T         SFP module with 11000BaseLX port with LC connector for 40 km transmission, -40 to 85°C operating temperature           SFP-1GZXLC         SFP module with 11000BaseZX port with LC connector for 80 km transmission, -40 to 85°C operating temperature           SFP-1GZXLC-T         SFP module with 11000BaseZX port with LC connector for 80 km transmission, -40 to 85°C operating temperature           SFP-1GZXLC-T         SFP module with 11000BaseZX port with LC connector for 80 km transmission, 0 to 60°C operating temperature           SFP-1GZXLC         SFP module with 11000BaseZX port with LC connector for 100 km transmission, 0 to 60°C operating temperature           SFP-1GZXLC         SFP module with 11000BaseZX port with LC connector for 100 km transmission, 0 to 60°C operating temperature           SFP-1GZXLC-T         SFP module with 11000BaseZX port with LC connector for 100 km transmission, 0 to 60°C operating temperature           SFP-1GZXLC         SFP module with 11000BaseZX port with LC connector for 100 km transmission, 0 to 60°C operating temperature           SFP-1GZXLC-120         SFP module with 11000BaseZX port	SFP-1GLXLC	
InterpretatureSFP-1GLHLC-TSFP module with 1 100BaseLH port with LC connector for 30 km transmission, -40 to 85°C operating temperatureSFP-1GLHXLCSFP module with 1 100BaseLHX port with LC connector for 40 km transmission, -40 to 85°C operating temperatureSFP-1GLHXLC-TSFP module with 1 100BaseLX port with LC connector for 40 km transmission, -40 to 85°C operating temperatureSFP-1GZXLCSFP module with 1 100BaseZX port with LC connector for 40 km transmission, -40 to 85°C operating temperatureSFP-1GZXLC-TSFP module with 1 100BaseZX port with LC connector for 80 km transmission, 0 to 60°C operating temperatureSFP-1GZXLC-TSFP module with 1 100BaseZX port with LC connector for 100 km transmission, 0 to 60°C operating temperatureSFP-1GZXLC-TSFP module with 1 100BaseZX port with LC connector for 110 km transmission, 0 to 60°C operating temperatureSFP-1GZXLC-TSFP module with 1 100BaseZX port with LC connector for 110 km transmission, 0 to 60°C operating temperatureSFP-1GZXLC-120SFP module with 1 100BaseZX port with LC connector for 100 km transmission, -40 to 75°C operating temperatureSFP-1GTXRJ45-TSFP module with 1 100BaseT port with RJ45 connector for 100 km transmission, -40 to 75°C operating temperaturePower Supplies120 W/2.5 A DIN-rail 24 VDC power supply, universal 85 to 264 VAC or 127 to 370 VDC input voltage, -30 to 70°C operating temperatureNDR-120-24120 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 temperatureSoftwareMXview license for 50 nodesMXview-50MXview license for 50 nodesMXview-50 <td>SFP-1GLXLC-T</td> <td></td>	SFP-1GLXLC-T	
Itemporature         Itemporature           SFP-1GLHXLC         SFP module with 11000BaseLHX port with LC connector for 40 km transmission, 40 to 85°C operating temperature           SFP-1GLHXLC-T         SFP module with 11000BaseLHX port with LC connector for 40 km transmission, -40 to 85°C operating temperature           SFP-1GZXLC         SFP module with 11000BaseZX port with LC connector for 80 km transmission, -40 to 85°C operating temperature           SFP-1GZXLC-T         SFP module with 11000BaseZX port with LC connector for 80 km transmission, 0 to 60°C operating temperature           SFP-1GZXLC-T         SFP module with 11000BaseZX port with LC connector for 100 km transmission, 0 to 60°C operating temperature           SFP-1GZXLC-T         SFP module with 11000BaseZX port with LC connector for 110 km transmission, 0 to 60°C operating temperature           SFP-1GZXLC-120         SFP module with 11000BaseZX port with LC connector for 120 km transmission, 0 to 60°C operating temperature           SFP-1GTXRJ45-T         SFP module with 11000BaseZX port with LC connector for 100 m transmission, -40 to 75°C operating temperature           Power Supplies         MDR-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           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/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 tem	SFP-1GLHLC	
temperatureSFP-1GLHXLC-TSFP module with 11000BaseLHX port with LC connector for 40 km transmission, -40 to 85°C operating temperatureSFP-1GZXLCSFP module with 11000BaseZX port with LC connector for 80 km transmission, 0 to 60°C operating temperatureSFP-1GZXLC-TSFP module with 11000BaseZX port with LC connector for 80 km transmission, -40 to 85°C operating temperatureSFP-1GEZXLCSFP module with 11000BaseZX port with LC connector for 80 km transmission, -40 to 85°C operating temperatureSFP-1GEZXLC-TSFP module with 11000BaseEZX port with LC connector for 110 km transmission, 0 to 60°C operating temperatureSFP-1GEZXLC-120SFP module with 11000BaseEZX port with LC connector for 120 km transmission, 0 to 60°C operating temperatureSFP-1GEZXLC-120SFP module with 11000BaseEZX port with LC connector for 100 m transmission, -40 to 75°C operating temperaturePower SuppliesMDR-60-24HDR-60-2460 W/2.5 A DIN-rail 24 VDC power supply, universal 85 to 264 VAC or 127 to 370 VDC input voltage, -30 to 70°C operating temperatureNDR-120-24120 W/5.5 A DIN-rail 44 VDC power supply, universal 90 to 264 VAC or 127 to 370 VDC input voltage, -20 to 70°C operating temperatureNDR-120-48120 W/5.5 A DIN-rail 44 VDC power supply, universal 90 to 264 VAC or 127 to 370 VDC input voltage, -20 to 70°C operating temperatureSoftwareMXview license for 50 nodesMXview-50MXview license for 50 nodesMXview license for 500 nodesMXview-500MXview license for 50 nodesMXview-1000MXview license for 50 nodesMXview-2000MXview license for 200 nodes <td>SFP-1GLHLC-T</td> <td></td>	SFP-1GLHLC-T	
International operating temperature         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-1GZXLC         SFP module with 1 1000BaseEZX port with LC connector for 100 km transmission, 0 to 60°C operating temperature           SFP-1GZXLC-120         SFP module with 1 1000BaseEZX port with LC connector for 120 km transmission, 0 to 60°C operating temperature           SFP-1GZXLC-120         SFP module with 1 1000BaseEZX port with LC connector for 120 km transmission, 0 to 60°C operating temperature           SFP-1GZXLC-120         SFP module with 1 1000BaseEZX port with LC connector for 100 m transmission, 0 to 60°C operating temperature           SFP-1GZXLC-120         SFP module with 1 1000BaseEZX port with RJ45 connector for 100 m transmission, 0 to 60°C operating temperature           Power Supplies         60 W/2.5 A DIN-rail 24 VDC power supply, universal 85 to 264 VAC or 120 to 370 VDC input voltage, -20 to 70°C operating temperature           NDR-120-24         60 W/2.5 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-120-24         120 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           NDR-120-48         120 W/5.0 A DIN-rail 48 VDC power supply, universal 90 to	SFP-1GLHXLC	
International temperatureSFP-1GZXLC-TSFP module with 1 1000BaseZX port with LC connector for 80 km transmission, -40 to 85°C operating temperatureSFP-1GEZXLCSFP module with 1 1000BaseEZX port with LC connector for 110 km transmission, 0 to 60°C operating temperatureSFP-1GEZXLC-120SFP module with 1 1000BaseEZX port with LC connector for 120 km transmission, 0 to 60°C operating temperatureSFP-1GEZXLC-120SFP module with 1 1000BaseEZX port with LC connector for 120 km transmission, 0 to 60°C operating temperatureSFP-1GTXRJ45-TSFP module with 1 1000BaseT port with RJ45 connector for 100 m transmission, -40 to 75°C operating temperaturePower Supplies60 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 temperatureNDR-120-2460 W/2.5 A DIN-rail 24 VDC power supply, universal 90 to 264 VAC or 127 to 370 VDC input voltage, -20 to 70°C operating temperatureNDR-120-48120 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 temperatureNDR-120-48120 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 temperatureSoftwareMXview-50MXview license for 50 nodesMXview-50MXview license for 50 nodesMXview-500MXview license for 500 nodesMXview-1000MXview license for 500 nodesMXview-1000MXview license for 500 nodesMXview-1000MXview license for 500 nodesMXview-2000MXview license for 2000 nodes	SFP-1GLHXLC-T	
temperatureSFP-1GEZXLCSFP module with 1 1000BaseEZX port with LC connector for 110 km transmission, 0 to 60°C operating temperatureSFP-1GEZXLC-120SFP module with 1 1000BaseEZX port with LC connector for 120 km transmission, 0 to 60°C operating temperatureSFP-1GEZXLC-120SFP module with 1 1000BaseEZX port with LC connector for 120 km transmission, -40 to 75°C operating temperatureSFP-1GTXRJ45-TSFP module with 1 1000BaseT port with RJ45 connector for 100 m transmission, -40 to 75°C operating temperaturePower Supplies60 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 temperatureNDR-120-2460 W/2.5 A DIN-rail 24 VDC power supply, universal 90 to 264 VAC or 127 to 370 VDC input voltage, -20 to 70°C operating temperatureNDR-120-24120 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 temperatureNDR-240-48120 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 temperatureNDR-240-48240 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 temperatureSoftwareMXview license for 50 nodesMXview-50MXview license for 50 nodesMXview-500MXview license for 500 nodesMXview-500MXview license for 250 nodesMXview-1000MXview license for 000 nodesMXview-2000MXview license for 2000 nodes	SFP-1GZXLC	
temperatureSFP-1GEZXLC-120SFP module with 1 1000BaseEZX port with LC connector for 120 km transmission, 0 to 60°C operating temperatureSFP-1GTXRJ45-TSFP module with 1 1000BaseT port with RJ45 connector for 100 m transmission, -40 to 75°C operating temperaturePower Supplies60 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 temperatureNDR-120-2460 W/2.5 A DIN-rail 24 VDC power supply, universal 90 to 264 VAC or 127 to 370 VDC input voltage, -20 to 70°C operating temperatureNDR-120-48120 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 temperatureNDR-240-48240 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 temperatureSoftwareMXview-50 MXview license for 50 nodesMXview-250MXview license for 250 nodesMXview-500MXview license for 500 nodesMXview-100MXview license for 500 nodesMXview-250MXview license for 500 nodesMXview-250MXview license for 200 nodesMXview-250MXview license for 500 nodesMXview-2000MXview license for 1000 nodes	SFP-1GZXLC-T	
temperatureSFP-1GTXRJ45-TSFP module with 1 1000BaseT port with RJ45 connector for 100 m transmission, -40 to 75°C operating temperaturePower SuppliesHDR-60-2460 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 temperatureNDR-120-24120 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 temperatureNDR-120-48120 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 temperatureNDR-240-48240 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 temperatureSoftwareMXview-50MXview-50MXview license for 50 nodesMXview-250MXview license for 500 nodesMXview-500MXview license for 500 nodesMXview-1000MXview license for 500 nodesMXview-2000MXview license for 2000 nodes	SFP-1GEZXLC	
temperaturePower SuppliesHDR-60-2460 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 temperatureNDR-120-24120 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 temperatureNDR-120-48120 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 temperatureNDR-240-48240 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 temperatureSoftwareXview-50MXview license for 50 nodesMXview-500MXview license for 50 nodesMXview-500MXview license for 50 nodesMXview-500MXview license for 500 nodesMXview-500MXview license for 500 nodesMXview-250MXview license for 500 nodesMXview-2000MXview license for 1000 nodesMXview-1000MXview license for 2000 nodes	SFP-1GEZXLC-120	
HDR-60-2460 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 temperatureNDR-120-24120 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 temperatureNDR-120-48120 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 temperatureNDR-240-48240 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 temperatureSoftwareMXview-50MXview-50MXview license for 50 nodesMXview-250MXview license for 200 nodesMXview-500MXview license for 500 nodesMXview-1000MXview license for 500 nodesMXview-1000MXview license for 200 nodesMXview-2000MXview license for 2000 nodes	SFP-1GTXRJ45-T	
to 70°C operating temperatureNDR-120-24120 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 temperatureNDR-120-48120 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 temperatureNDR-240-48240 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 temperatureSoftware240 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 temperatureMXview-50MXview license for 50 nodesMXview-100MXview license for 100 nodesMXview-500MXview license for 500 nodesMXview-1000MXview license for 500 nodesMXview-1000MXview license for 500 nodesMXview-1000MXview license for 100 nodesMXview-2000MXview license for 1000 nodesMXview-1000MXview license for 1000 nodes	Power Supplies	
-20 to 70°C operating temperatureNDR-120-48120 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 temperatureNDR-240-48240 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 temperatureSoftwareMXview-50MXview-100MXview license for 50 nodesMXview-250MXview license for 250 nodesMXview-250MXview license for 250 nodesMXview-200MXview license for 500 nodesMXview-200MXview license for 500 nodesMXview-2000MXview license for 200 nodes	HDR-60-24	
-20 to 70°C operating temperatureNDR-240-48240 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 temperatureSoftwareMXview-50MXview-50MXview license for 50 nodesMXview-100MXview license for 100 nodesMXview-250MXview license for 250 nodesMXview-500MXview license for 500 nodesMXview-500MXview license for 200 nodesMXview-2000MXview license for 2000 nodes	NDR-120-24	1 113/ 1 0/
-20 to 70°C operating temperatureSoftwareMXview-50MXview license for 50 nodesMXview-100MXview license for 100 nodesMXview-250MXview license for 250 nodesMXview-500MXview license for 500 nodesMXview-1000MXview license for 1000 nodesMXview-2000MXview license for 2000 nodes	NDR-120-48	
MXview-50MXview license for 50 nodesMXview-100MXview license for 100 nodesMXview-250MXview license for 250 nodesMXview-500MXview license for 500 nodesMXview-1000MXview license for 1000 nodesMXview-2000MXview license for 2000 nodes	NDR-240-48	
MXview-100MXview license for 100 nodesMXview-250MXview license for 250 nodesMXview-500MXview license for 500 nodesMXview-1000MXview license for 1000 nodesMXview-2000MXview license for 2000 nodes	Software	
MXview-250MXview license for 250 nodesMXview-500MXview license for 500 nodesMXview-1000MXview license for 1000 nodesMXview-2000MXview license for 2000 nodes	MXview-50	MXview license for 50 nodes
MXview-500MXview license for 500 nodesMXview-1000MXview license for 1000 nodesMXview-2000MXview license for 2000 nodes	MXview-100	MXview license for 100 nodes
MXview-1000MXview license for 1000 nodesMXview-2000MXview license for 2000 nodes	MXview-250	MXview license for 250 nodes
MXview-2000 MXview license for 2000 nodes	MXview-500	MXview license for 500 nodes
	MXview-1000	MXview license for 1000 nodes
MXview Upgrade-50 MXview license expansion for 50 nodes	MXview-2000	MXview license for 2000 nodes
	MXview Upgrade-50	MXview license expansion for 50 nodes

© Moxa Inc. All rights reserved. Updated Sep 22, 2023.

This document and any portion thereof may not be reproduced or used in any manner whatsoever without the express written permission of Moxa Inc. Product specifications subject to change without notice. Visit our website for the most up-to-date product information.

