

# MDS-G4012-L3 系列

## 12G 埠 Layer 3 全 Gigabit 模組化網管型乙太網路交換器



### 特色與優點

- Layer3 路由互連多個 LAN 區段
- 多介面類型 4 埠模組提供更大的多樣性
- 免工具設計，可輕鬆新增或更換模組，而無需關閉交換器
- 超緊湊機身設計，搭配多種安裝方式，便於彈性安裝
- 堅固耐用的壓鑄設計，適用於嚴苛環境
- 直覺化的 HTML5 網頁介面，提供跨平台無縫使用體驗

### 認證



### 簡介

MDS-G4012-L3 系列模組化交換器最多可支援 12 個 Gigabit 連接埠，包括 4 個內嵌連接埠、2 個介面模組擴充插槽，以及 2 個電源 模組插槽，確保適用多種應用的彈性。高度緊湊的 MDS-G4000-L3 系列專為滿足不斷演進的 網路需求而設計，確保安裝與維護更加輕鬆，並採用熱插拔模組設計，讓您能夠輕鬆 更換或新增模組，而無需關閉交換器或中斷 網路操作。

多重 乙太網路模組（RJ45、SFP 和 PoE）及電源模組（24/48 VDC、110/220 VAC/VDC）提供更大靈活性，適用不同操作條件，提供適應性 全 Gigabit 平台，具備作為乙太網路匯集/邊緣交換器所需的 多樣性與頻寬。MDS-G4000-L3 系列 交換器採用緊湊設計，能安裝於狹小空間，並提供多種安裝方式 與方便的免工具模組安裝功能，實現彈性且輕鬆的部署，無需 高度技術工程師即可操作。MDS-G4000-L3 系列 交換器通過多項業界認證，並採用高度 耐用的外殼設計，能夠在電力變電站、礦場、ITS 及石油天然氣等嚴苛與危險環境中穩定可靠地操作。支援雙 電源模組設計，可提供備援功能，確保系統的高可靠性與高可用性，同時，提供 LV 與 HV 電源模組選項，能彈性 滿足不同應用場景的電力需求。

支援 Layer 3 路由功能，使這些交換器能夠在不同網路之間靈活部署應用，非常適合用於大規模工業 網路環境。此外，MDS-G4000-L3 系列採用 HTML5 易用網頁介面，可在不同平台與瀏覽器上提供 回應迅速、操作流暢的使用者體驗。

### 規格

#### Ethernet Interface

|                       |                                           |
|-----------------------|-------------------------------------------|
| Pre-installed Modules | 4 embedded Gigabit ports                  |
| Module                | 2 slots for optional 4-port FE/GE modules |

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Slot Combination | <p>See the LM-7000H module series datasheet for more information.</p> <p>Note: The required power module depends on the choice of LM-7000H module. Refer to the following power/module combination requirements.</p> <p>LM-7000H non-PoE modules:<br/>Any power module</p> <p>LM-7000H PoE modules:<br/>PWR-HV-P48, PWR-LV-P48 only</p>                                                                                          |
| Standards        | <p>IEEE 802.3 for 10BaseT<br/>IEEE 802.3u for 100BaseT(X) and 100BaseFX<br/>IEEE 802.3ab for 1000BaseT(X)<br/>IEEE 802.3z for 1000BaseX<br/>IEEE 802.3x for flow control<br/>IEEE 802.3ad for Port Trunk with LACP<br/>IEEE 802.1Q for VLAN Tagging<br/>IEEE 802.1D-2004 for Spanning Tree Protocol<br/>IEEE 802.1w for Rapid Spanning Tree Protocol<br/>IEEE 802.1p for Class of Service<br/>IEEE 802.1X for authentication</p> |

## Ethernet Software Features

|                      |                                                                                                                                                                                                                                                                                                                                                              |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Management           | <p>IPv4<br/>Flow control<br/>Back Pressure Flow Control<br/>ARP<br/>RARP<br/>LLDP<br/>DHCP Relay Agent (Option 82)<br/>Fiber Check<br/>Port Mirroring (SPAN, RSPAN)<br/>Linkup Delay<br/>SMTP<br/>SNMP Trap<br/>SNMP Inform<br/>SNMPv1/v2c/v3<br/>RMON<br/>TFTP<br/>SFTP<br/>HTTP<br/>HTTPS<br/>Telnet<br/>Syslog<br/>Private MIB<br/>Loopback interface</p> |
| Filter               | <p>GMRP<br/>GVRP<br/>GARP<br/>802.1Q VLAN<br/>IGMP Snooping v1/v2/v3<br/>IGMP Querier</p>                                                                                                                                                                                                                                                                    |
| Redundancy Protocols | <p>STP<br/>RSTP<br/>Turbo Ring v2<br/>Turbo Chain<br/>Ring Coupling<br/>Dual-Homing<br/>MRP<br/>MSTP<br/>Network Loop Protection<br/>Link Aggregation</p>                                                                                                                                                                                                    |
| Routing Redundancy   | <p>VRRP</p>                                                                                                                                                                                                                                                                                                                                                  |
| Security             | <p>Access control list<br/>Broadcast storm protection<br/>DHCP Snooping<br/>Dynamic ARP Inspection</p>                                                                                                                                                                                                                                                       |

|                      |                                                                                                                                                                                            |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                      | IP Source Guard<br>MAC authentication bypass<br>MAC Sticky<br>Rate Limit<br>Trust access control<br>Static Port Lock<br>HTTPS/SSL<br>SSH<br>RADIUS<br>TACACS+<br>Login and Password Policy |
| Time Management      | SNTP<br>NTP Server/Client<br>NTP Authentication                                                                                                                                            |
| Protocols            | IPv4<br>TCP/IP<br>UDP<br>ICMP<br>ARP<br>RARP<br>TFTP<br>DNS<br>NTP Client<br>802.1X<br>QoS<br>HTTPS<br>HTTP<br>Telnet<br>SMTP<br>SNMPv1/v2c/v3<br>RMON<br>Syslog                           |
| Industrial Protocols | EtherNet/IP<br>Modbus TCP                                                                                                                                                                  |
| Unicast Routing      | OSPF<br>Static Route                                                                                                                                                                       |
| MIB                  | P-BRIDGE MIB<br>Q-BRIDGE MIB<br>IEEE8021-SPANNING-TREE-MIB<br>IEEE8021-PAE-MIB<br>IEEE8023-LAG-MIB<br>LLDP-EXT-DOT1-MIB<br>LLDP-EXT-DOT3-MIB<br>SNMPv2-MIB<br>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          |
| Jumbo Frame Size   | 9.216 KB      |
| Priority Queues    | 8             |
| Packet Buffer Size | 12 Mbits      |

## LED Interface

|                |                                                    |
|----------------|----------------------------------------------------|
| LED Indicators | PWR, EPS, STATE, SYNC, FAULT, MSTR/HEAD, CPLR/TAIL |
|----------------|----------------------------------------------------|

## Serial Interface

|              |               |
|--------------|---------------|
| Console Port | RS-232 (RJ45) |
|--------------|---------------|

## USB Interface

|               |            |
|---------------|------------|
| USB Connector | USB Type A |
|---------------|------------|

## Input/Output Interface

|                        |                                                                                               |
|------------------------|-----------------------------------------------------------------------------------------------|
| Digital Input Channels | 1 (On MGMT Module)                                                                            |
| Digital Inputs         | +13 to +30 V for state 1<br>-30 to +3 V for state 0<br>Max. input current: 8 mA               |
| Alarm Contact Channels | 3 (On MGMT, PWR1, PWR2 Module)<br>Relay output with current carrying capacity of 2 A @ 30 VDC |
| Buttons                | Reset button                                                                                  |

## Power Parameters

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                      |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Input Voltage            | <p>With PWR-HV-P48 installed:<br/>110/220 VDC, 110 VAC, 60 Hz, 220 VAC, 50 Hz, PoE: 48 VDC</p> <p>With PWR-LV-P48 installed:<br/>24/48 VDC, PoE: 48 VDC</p> <p>With PWR-HV-NP installed:<br/>110/220 VDC, 110 VAC, 60 Hz, 220 VAC, 50 Hz</p> <p>With PWR-LV-NP installed:<br/>24/48 VDC</p>                                                                                                                          |
| Operating Voltage        | <p>With PWR-HV-P48 installed:<br/>88 to 300 VDC, 90 to 264 VAC, 47 to 63 Hz, PoE: 46 to 57 VDC</p> <p>With PWR-LV-P48 installed:<br/>18 to 72 VDC (24/48 VDC for hazardous location), PoE: 46 to 57 VDC (48 VDC for hazardous location)</p> <p>With PWR-HV-NP installed:<br/>88 to 300 VDC, 90 to 264 VAC, 47 to 63 Hz</p> <p>With PWR-LV-NP installed:<br/>18 to 72 VDC</p>                                         |
| Input Current            | <p>With PWR-HV-P48/PWR-HV-NP installed:<br/>Max. 0.30 A @ 110 VDC<br/>Max. 0.15 A @ 220 VDC<br/>Max. 0.60 A @ 110 VAC<br/>Max. 0.40 A @ 220 VAC</p> <p>With PWR-LV-P48/PWR-LV-NP installed:<br/>Max. 1.5 A @ 24 VDC<br/>Max. 0.75 A @ 48 VDC</p> <p>EPS (PoE models only):<br/>Max. 8.2 A @ 48 VDC</p> <p>Note: These are the input current ratings for the device with the maximum number of modules installed.</p> |
| Power Consumption (Max.) | <p>With PWR-HV-P48/PWR-HV-NP installed:<br/>Max. 33.0 W @ 110 VDC<br/>Max. 34.0 W @ 220 VDC<br/>Max. 35.8 W @ 110 VAC<br/>Max. 38.0 W @ 220 VAC</p>                                                                                                                                                                                                                                                                  |

|                                |                                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                | <p>With PWR-LV-P48/PWR-LV-NP installed:<br/> Max. 36.0 W @ 24 VDC<br/> Max. 36.0 W @ 48 VDC</p> <p>Note: These are the maximum power consumption ratings for the device with the maximum number of modules installed.</p>                                                                                                                                                                                                     |
| Max. PoE Power Output per Port | 36 W                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Total PoE Power Budget         | <p>Max. 360 W (with one power supply) for total PD consumption at 48 VDC input for PoE systems</p> <p>Max. 360 W (with one power supply) for total PD consumption at 53 to 57 VDC input for PoE+ systems</p> <p>Max. 720 W (with two power supplies) for total PD consumption at 48 VDC input for PoE systems</p> <p>Max. 720 W (with two power supplies) for total PD consumption at 53 to 57 VDC input for PoE+ systems</p> |
| Overload Current Protection    | Supported                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Reverse Polarity Protection    | Supported                                                                                                                                                                                                                                                                                                                                                                                                                     |

### Physical Characteristics

|              |                                                                                             |
|--------------|---------------------------------------------------------------------------------------------|
| IP Rating    | IP40                                                                                        |
| Dimensions   | 134 x 115 x 163.25 mm (5.28 x 4.53 x 6.44 in)                                               |
| Weight       | 2000 g (4.41 lb)                                                                            |
| Installation | DIN-rail mounting<br>Wall mounting (with optional kit)<br>Rack mounting (with optional kit) |

### Environmental Limits

|                                        |                                                                                                 |
|----------------------------------------|-------------------------------------------------------------------------------------------------|
| Operating Temperature                  | Standard Temp Models: -10 to 60°C (14 to 140°F)<br>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 IEC 62368-1<br>IEC 60950-1<br>IEC 62368-1<br>UL 62368-1                                                                                                                                                                                                                                 |
| EMC             | EN 55032/35<br>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<br>IEC 61000-4-3 RS: 80 MHz to 1 GHz: 20 V/m<br>IEC 61000-4-4 EFT: Power: 4 kV; Signal: 4 kV<br>IEC 61000-4-5 Surge: Power: 4 kV; Signal: 4 kV<br>IEC 61000-4-6 CS: 10 V<br>IEC 61000-4-8 PFMF<br>IEC 61000-4-11 Voltage Dips & 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<br>ATEX |
| Power Substation    | IEEE 1613<br>IEC 61850-3   |

### MTBF

|           |                 |
|-----------|-----------------|
| Time      | 1,008,160 hrs   |
| Standards | Telcordia SR332 |

### Warranty

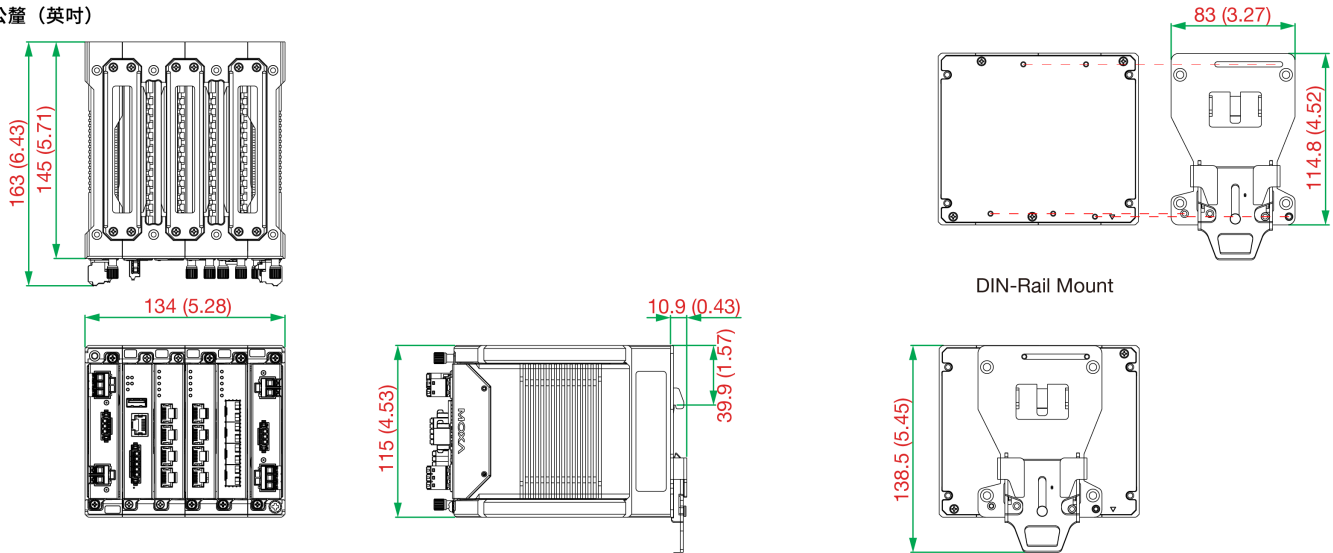
|                 |                                                                            |
|-----------------|----------------------------------------------------------------------------|
| Warranty Period | 5 years                                                                    |
| Details         | See <a href="http://www.moxa.com/tw/warranty">www.moxa.com/tw/warranty</a> |

### Package Contents

|                  |                                                                                                                                                                   |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Device           | 1 x MDS-G4012-L3 Series switch                                                                                                                                    |
| Installation Kit | (Pre-installed) 2 x DIN-rail kit<br>2 x cap, plastic, for RJ45 port                                                                                               |
| Documentation    | 1 x quick installation guide<br>1 x product notice, Simplified Chinese<br>1 x product certificates of quality inspection, Simplified Chinese<br>1 x warranty card |
| Note             | This product requires additional modules (sold separately) to function.                                                                                           |

## 尺寸

單位：公釐（英吋）



| 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-G4012-L3   | 3     | 12                 | Up to 8               | Up to 12                                   | Up to 8                                        | Up to 8                               | Up to 8                                   | -10 to 60°C     |
| MDS-G4012-L3-T | 3     | 12                 | Up to 8               | Up to 12                                   | Up to 8                                        | Up to 8                               | Up to 8                                   | -40 to 75°C     |

## 配件 (選購)

### 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°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°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-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-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-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-1GLHXL     | SFP module with 1 1000BaseLHX port with LC connector for 40 km transmission, 0 to 60°C operating temperature                                           |
| SFP-1GLHXL-T   | SFP module with 1 1000BaseLHX port with LC connector for 40 km 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-1GEZXL     | SFP module with 1 1000BaseEZ port with LC connector for 110 km transmission, 0 to 60°C operating temperature                                           |
| SFP-1GEZXL-120 | SFP module with 1 1000BaseEZ port with LC connector for 120 km transmission, 0 to 60°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 |

## Cables

|         |                                        |
|---------|----------------------------------------|
| CN20070 | 10-pin RJ45 to DB9 female serial cable |
|---------|----------------------------------------|

## 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 |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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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