

# EDS-4009 系列

## 9 埠網管型乙太網路交換器



### 特色與優點

- Turbo Ring 和 Turbo Chain ( 復原時間 < 20 毫秒 @ 250 交換器 )<sup>1</sup>以及透過 RSTP/STP 協議支援網路備援
- 寬範圍電源輸出，可提供彈性部署
- 輕巧靈活的外殼設計，適合狹小空間。
- 支援 MXstudio，輕鬆實現可視化的工業網路管理
- IEC 62443-4-2 安全等級 2 認證
- 海事網路安全認證 ( IACS UR E27 Rev.1、IEC 61162-460 Ed.3.0 for switch role )

### 認證



### 簡介

EDS-4009 系列是一系列 9 埠網管型快速乙太網路交換器，可選配三個 100M ST/SC 光纖連接埠。

備援乙太網路技術 ( 例如 Turbo Ring、Turbo Chain 和 RSTP/STP ) 可增加系統的可靠性，並且改善網路骨幹的可用性。EDS-4009 系列是專門為嚴苛的應用所設計 ( 例如視訊與流程監控、ITS 和 DCS 系統 )，所有應用都可從可擴充的骨幹中獲益。

### IEC 62443-4-2 安全等級 2 認證

EDS-(G)4000 系列型號通過 IEC 62443-4-2 安全等級 2 認證 (<https://certificates.iecee.org/#/deliverables/CERT/1605016/view>)，幫助我們的客戶滿足安全工業網路設計的合規性要求。

### 規格

| Ethernet Interface                         |                                                                                   |
|--------------------------------------------|-----------------------------------------------------------------------------------|
| 10/100BaseT(X) Ports (RJ45 connector)      | 6<br>Auto negotiation speed<br>Full/Half duplex mode<br>Auto MDI/MDI-X connection |
| 100BaseFX Ports (multi-mode SC connector)  | EDS-4009-3MSC-LV/-HV/-T models: 3                                                 |
| 100BaseFX Ports (multi-mode ST connector)  | EDS-4009-3MST-LV/-HV/-T models: 3                                                 |
| 100BaseFX Ports (single-mode SC connector) | EDS-4009-3SSC-LV/-HV/-T models: 3                                                 |

1. 如果連接埠連結速度為 1 Gigabit 或更高，則復原時間小於 50 毫秒。

| Standards        | IEEE 802.3 for 10BaseT<br>IEEE 802.3u for 100BaseT(X) and 100BaseFX<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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |              |             |              |  |  |           |  |            |             |                  |     |           |       |              |                  |  |      |      |       |            |              |      |  |      |               |              |  |              |               |              |  |              |               |                |            |  |         |                |           |  |           |                  |    |  |    |                         |   |  |   |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------|--------------|--|--|-----------|--|------------|-------------|------------------|-----|-----------|-------|--------------|------------------|--|------|------|-------|------------|--------------|------|--|------|---------------|--------------|--|--------------|---------------|--------------|--|--------------|---------------|----------------|------------|--|---------|----------------|-----------|--|-----------|------------------|----|--|----|-------------------------|---|--|---|
| Optical Fiber    | <table><tr><th colspan="2" rowspan="2"></th><th colspan="2">100BaseFX</th></tr><tr><th>Multi-Mode</th><th>Single-Mode</th></tr><tr><th rowspan="2">Fiber Cable Type</th><th rowspan="2">OM1</th><th>50/125 μm</th><th rowspan="2">G.652</th></tr><tr><th>800 MHz x km</th></tr><tr><td colspan="2">Typical Distance</td><td>4 km</td><td>5 km</td><td>40 km</td></tr><tr><th rowspan="3">Wavelength</th><td>Typical (nm)</td><td colspan="2">1300</td><td>1310</td></tr><tr><td>TX Range (nm)</td><td colspan="2">1260 to 1360</td><td>1280 to 1340</td></tr><tr><td>RX Range (nm)</td><td colspan="2">1100 to 1600</td><td>1100 to 1600</td></tr><tr><th rowspan="4">Optical Power</th><td>TX Range (dBm)</td><td colspan="2">-10 to -20</td><td>0 to -5</td></tr><tr><td>RX Range (dBm)</td><td colspan="2">-3 to -32</td><td>-3 to -34</td></tr><tr><td>Link Budget (dB)</td><td colspan="2">12</td><td>29</td></tr><tr><td>Dispersion Penalty (dB)</td><td colspan="2">3</td><td>1</td></tr></table> <p>Note: When connecting a single-mode fiber transceiver, we recommend using an attenuator to prevent damage caused by excessive optical power.</p> <p>Note: Compute the “typical distance” of a specific fiber transceiver as follows: Link budget (dB) &gt; dispersion penalty (dB) + total link loss (dB).</p> |              |             |              |  |  | 100BaseFX |  | Multi-Mode | Single-Mode | Fiber Cable Type | OM1 | 50/125 μm | G.652 | 800 MHz x km | Typical Distance |  | 4 km | 5 km | 40 km | Wavelength | Typical (nm) | 1300 |  | 1310 | TX Range (nm) | 1260 to 1360 |  | 1280 to 1340 | RX Range (nm) | 1100 to 1600 |  | 1100 to 1600 | Optical Power | TX Range (dBm) | -10 to -20 |  | 0 to -5 | RX Range (dBm) | -3 to -32 |  | -3 to -34 | Link Budget (dB) | 12 |  | 29 | Dispersion Penalty (dB) | 3 |  | 1 |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 100BaseFX    |             |              |  |  |           |  |            |             |                  |     |           |       |              |                  |  |      |      |       |            |              |      |  |      |               |              |  |              |               |              |  |              |               |                |            |  |         |                |           |  |           |                  |    |  |    |                         |   |  |   |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Multi-Mode   | Single-Mode |              |  |  |           |  |            |             |                  |     |           |       |              |                  |  |      |      |       |            |              |      |  |      |               |              |  |              |               |              |  |              |               |                |            |  |         |                |           |  |           |                  |    |  |    |                         |   |  |   |
| Fiber Cable Type | OM1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 50/125 μm    | G.652       |              |  |  |           |  |            |             |                  |     |           |       |              |                  |  |      |      |       |            |              |      |  |      |               |              |  |              |               |              |  |              |               |                |            |  |         |                |           |  |           |                  |    |  |    |                         |   |  |   |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 800 MHz x km |             |              |  |  |           |  |            |             |                  |     |           |       |              |                  |  |      |      |       |            |              |      |  |      |               |              |  |              |               |              |  |              |               |                |            |  |         |                |           |  |           |                  |    |  |    |                         |   |  |   |
| Typical Distance |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 4 km         | 5 km        | 40 km        |  |  |           |  |            |             |                  |     |           |       |              |                  |  |      |      |       |            |              |      |  |      |               |              |  |              |               |              |  |              |               |                |            |  |         |                |           |  |           |                  |    |  |    |                         |   |  |   |
| Wavelength       | Typical (nm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1300         |             | 1310         |  |  |           |  |            |             |                  |     |           |       |              |                  |  |      |      |       |            |              |      |  |      |               |              |  |              |               |              |  |              |               |                |            |  |         |                |           |  |           |                  |    |  |    |                         |   |  |   |
|                  | TX Range (nm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1260 to 1360 |             | 1280 to 1340 |  |  |           |  |            |             |                  |     |           |       |              |                  |  |      |      |       |            |              |      |  |      |               |              |  |              |               |              |  |              |               |                |            |  |         |                |           |  |           |                  |    |  |    |                         |   |  |   |
|                  | RX Range (nm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1100 to 1600 |             | 1100 to 1600 |  |  |           |  |            |             |                  |     |           |       |              |                  |  |      |      |       |            |              |      |  |      |               |              |  |              |               |              |  |              |               |                |            |  |         |                |           |  |           |                  |    |  |    |                         |   |  |   |
| Optical Power    | TX Range (dBm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -10 to -20   |             | 0 to -5      |  |  |           |  |            |             |                  |     |           |       |              |                  |  |      |      |       |            |              |      |  |      |               |              |  |              |               |              |  |              |               |                |            |  |         |                |           |  |           |                  |    |  |    |                         |   |  |   |
|                  | RX Range (dBm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -3 to -32    |             | -3 to -34    |  |  |           |  |            |             |                  |     |           |       |              |                  |  |      |      |       |            |              |      |  |      |               |              |  |              |               |              |  |              |               |                |            |  |         |                |           |  |           |                  |    |  |    |                         |   |  |   |
|                  | Link Budget (dB)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 12           |             | 29           |  |  |           |  |            |             |                  |     |           |       |              |                  |  |      |      |       |            |              |      |  |      |               |              |  |              |               |              |  |              |               |                |            |  |         |                |           |  |           |                  |    |  |    |                         |   |  |   |
|                  | Dispersion Penalty (dB)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 3            |             | 1            |  |  |           |  |            |             |                  |     |           |       |              |                  |  |      |      |       |            |              |      |  |      |               |              |  |              |               |              |  |              |               |                |            |  |         |                |           |  |           |                  |    |  |    |                         |   |  |   |

## Ethernet Software Features

|                      |                                                                                                                                                                                                                                                                                                      |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Industrial Protocols | EtherNet/IP<br>Modbus TCP<br>PROFINET IO Device                                                                                                                                                                                                                                                      |
| Management           | IPv4/IPv6<br>Flow control<br>Back Pressure Flow Control<br>DHCP Server/Client<br>ARP<br>RARP<br>LLDP<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 |
| Filter               | GMRP<br>GVRP<br>GARP<br>802.1Q VLAN<br>IGMP Snooping v1/v2/v3                                                                                                                                                                                                                                        |

|                      |                                                                                                                                                                                                                  |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                      | IGMP Querier                                                                                                                                                                                                     |
| Redundancy Protocols | STP<br>RSTP<br>Turbo Ring v2<br>Turbo Chain<br>Ring Coupling<br>Dual-Homing<br>Link Aggregation<br>MRP<br>MSTP                                                                                                   |
| Security             | Broadcast storm protection<br>Rate Limit<br>Trust access control<br>Static Port Lock<br>MAC Sticky<br>HTTPS/SSL<br>SSH<br>RADIUS<br>TACACS+<br>Access control list<br>Login and Password Policy<br>DHCP Snooping |
| Time Management      | SNTP<br>NTP Server/Client<br>NTP Authentication<br>IEEE 1588v2 PTP (hardware-based)<br>Supported power profiles: IEEE 1588 Default 2008, IEC 61850-9-3-2016, IEEE C37.238-2017                                   |
| Protocols            | IPv4/IPv6<br>TCP/IP<br>UDP<br>ICMP<br>ARP<br>RARP<br>TFTP<br>DNS<br>NTP Client<br>DHCP Server<br>DHCP Client<br>802.1X<br>QoS<br>HTTPS<br>HTTP<br>Telnet<br>SMTP<br>SNMPv1/v2c/v3<br>RMON<br>Syslog              |
| 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                         |

#### Switch Properties

|                   |               |
|-------------------|---------------|
| MAC Table Size    | 16 K          |
| Jumbo Frame Size  | 9.216 KB      |
| Max. No. of VLANs | 256           |
| VLAN ID Range     | VID 1 to 4094 |

|                    |      |
|--------------------|------|
| IGMP Groups        | 512  |
| Priority Queues    | 4    |
| Packet Buffer Size | 1 MB |

#### LED Interface

|                |                                                      |
|----------------|------------------------------------------------------|
| LED Indicators | PWR1, PWR2, STATE, FAULT, MSTR/HEAD, CPLR/TAIL, SYNC |
|----------------|------------------------------------------------------|

#### Serial Interface

|              |                                                      |
|--------------|------------------------------------------------------|
| Console Port | RS-232 (TxD, RxD, GND), 8-pin RJ45 (115200, n, 8, 1) |
|--------------|------------------------------------------------------|

#### USB Interface

|               |                       |
|---------------|-----------------------|
| USB Connector | USB Type A (Reserved) |
|---------------|-----------------------|

#### Input/Output Interface

|                        |                                                                                 |
|------------------------|---------------------------------------------------------------------------------|
| Alarm Contact Channels | 1, Relay output with current carrying capacity of 1 A @ 24 VDC                  |
| Digital Input Channels | 1                                                                               |
| Digital Inputs         | +13 to +30 V for state 1<br>-30 to +3 V for state 0<br>Max. input current: 8 mA |
| Buttons                | Reset button                                                                    |

#### DIP Switch Configuration

|              |                                      |
|--------------|--------------------------------------|
| DIP Switches | Turbo Ring, Master, Coupler, Reserve |
|--------------|--------------------------------------|

#### Power Parameters

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Connection                  | 2 removable 4-contact terminal block(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Pre-installed Power Module  | -LV/-LV-T models: PWR-100-LV<br>-HV/-HV-T models: PWR-105-HV-I                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Note                        | <p>The EDS-4009 Series supports modular power supplies. The model names and power parameters are determined by the installed power module.</p> <p>For example:<br/>EDS-4009-T + PWR-100-LV = EDS-4009-LV-T<br/>EDS-4009-T + PWR-105-HV-I = EDS-4009-HV-T</p> <p>If you install a different power module, refer to the specifications of the corresponding model. For example, if you replace the power module of the EDS-4009-LV-T with the PWR-105-HV-I, refer to the specifications of the EDS-4009-HV-T.</p> |
| Input Voltage               | -LV/-LV-T models: 12/24/48 VDC, Redundant dual inputs<br>-HV/-HV-T models: 110/220 VDC/VAC, Single input                                                                                                                                                                                                                                                                                                                                                                                                        |
| Operating Voltage           | -LV/-LV-T models: 9.6 to 60 VDC<br>-HV/-HV-T models: 88 to 300 VDC, 85 to 264 VAC                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Input Current               | -LV/-LV-T models: 12-48 VDC, 1.50-0.40 A or 24 VDC, 0.70 A<br>-HV/-HV-T models: 110-220 VAC, 50-60 Hz, 0.30-0.20 A or 110-220 VDC, 0.30-0.20 A                                                                                                                                                                                                                                                                                                                                                                  |
| Power Consumption (Max.)    | EDS-4009-3MSC-LV(-T) models: 9.51 W<br>EDS-4009-3MSC-HV(-T) models: 12.14 W<br>EDS-4009-3MST-LV(-T) models: 9.51 W<br>EDS-4009-3MST-HV(-T) models: 12.17 W<br>EDS-4009-3SSC-LV(-T) models: 9.51 W<br>EDS-4009-3SSC-HV(-T) models: 12.34 W                                                                                                                                                                                                                                                                       |
| Overload Current Protection | Supported                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Reverse Polarity Protection | Supported                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

## Physical Characteristics

|              |                                                                                                                                                                    |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IP Rating    | IP40                                                                                                                                                               |
| Dimensions   | EDS-4009-3MSC(-T)/EDS-4009-3SSC(-T) models:<br>55 x 140 x 120 mm (2.17 x 5.51 x 4.72 in)<br>EDS-4009-3MST(-T) models:<br>55 x 140 x 132 mm (2.17 x 5.51 x 5.20 in) |
| Weight       | EDS-4009-3MSC(-T) models: 821.5 g (1.81 lb)<br>EDS-4009-3MST(-T) models: 920 g (2.03 lb)<br>EDS-4009-3SSC(-T) models: 932 g (2.05 lb)                              |
| Installation | DIN-rail mounting<br>Wall mounting (with optional kit)                                                                                                             |
| Housing      | Metal                                                                                                                                                              |

## Environmental Limits

|                                        |                                                                                             |
|----------------------------------------|---------------------------------------------------------------------------------------------|
| Operating Temperature                  | Standard 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

|                     |                                                                                                                                                                                                                                             |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Cybersecurity       | IEC 62443-4-2 Security Level 2<br>IEC 61162-460 (switch role)                                                                                                                                                                               |
| Safety              | UL 61010-2-201<br>EN 62368-1 (LVD)                                                                                                                                                                                                          |
| 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 |
| Maritime            | -LV/-LV-T models: DNV, ABS, NK, LR                                                                                                                                                                                                          |
| Vibration           | IEC 60068-2-6                                                                                                                                                                                                                               |
| Shock               | IEC 60068-2-27                                                                                                                                                                                                                              |
| Freefall            | IEC 60068-2-32                                                                                                                                                                                                                              |
| Railway             | EN 50121-4                                                                                                                                                                                                                                  |
| Traffic Control     | NEMA TS2                                                                                                                                                                                                                                    |
| Power Substation    | IEC 61850-3<br>IEEE 1613 Class 1                                                                                                                                                                                                            |
| Hazardous Locations | -LV/-LV-T models:<br>ATEX<br>IECEx<br>Class I Division 2                                                                                                                                                                                    |

## MTBF

|      |                                                                                                                                                                                                                                                                                  |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Time | EDS-4009-3MSC-LV/-LV-T models: 972,841 hrs<br>EDS-4009-3MSC-HV/-HV-T models: 482,263 hrs<br>EDS-4009-3MST-LV/-LV-T models: 972,841 hrs<br>EDS-4009-3MST-HV/-HV-T models: 482,263 hrs<br>EDS-4009-3SSC-LV/-LV-T models: 972,841 hrs<br>EDS-4009-3SSC-HV/-HV-T models: 482,263 hrs |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Warranty

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

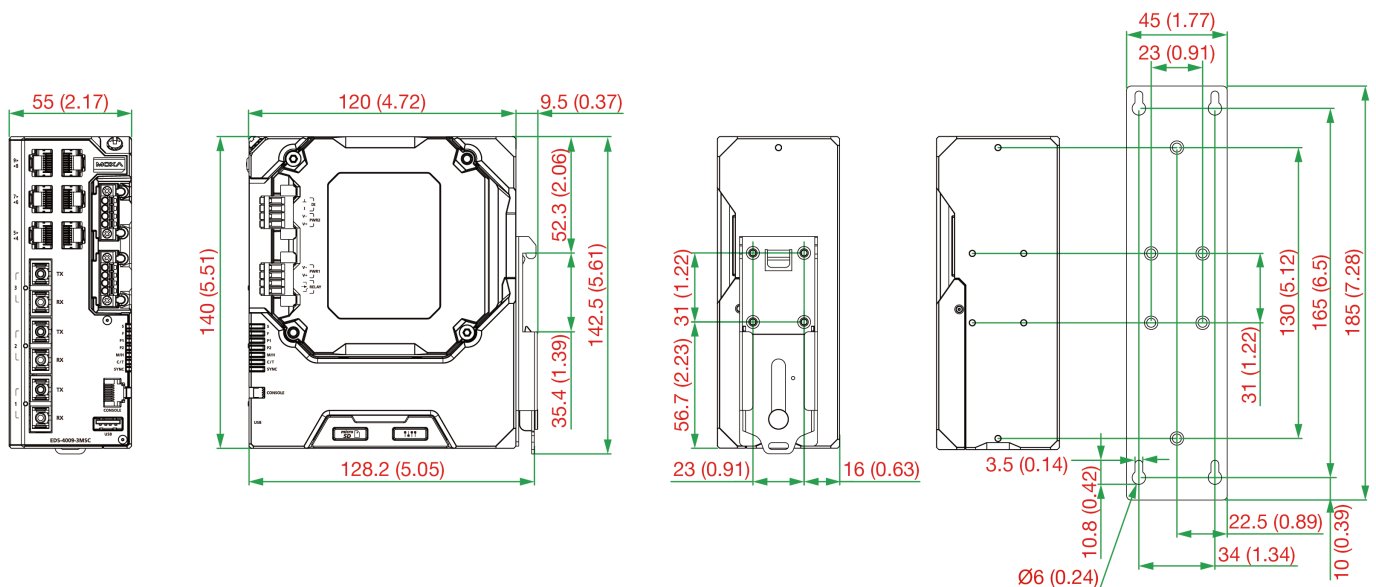
## Package Contents

|               |                                                                                                                                                                   |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Device        | 1 x EDS-4009 Series switch                                                                                                                                        |
| 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 |

## 尺寸

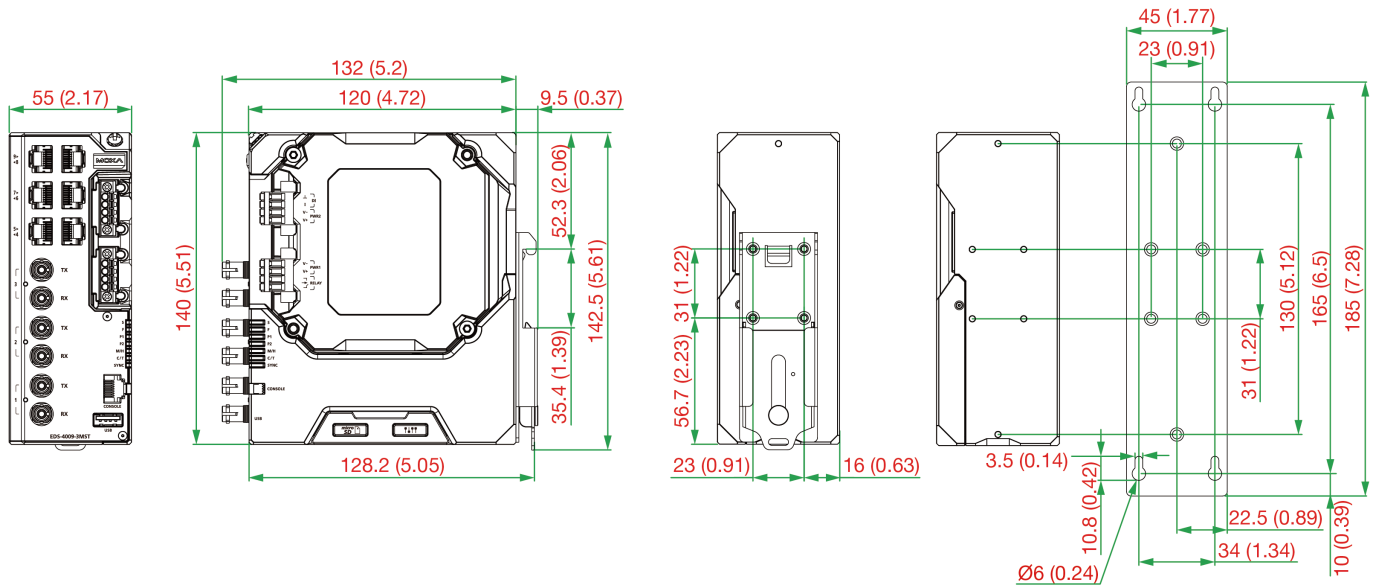
### EDS-4009-3MSC(-T)、EDS-4009-3SSC(-T) 型號

單位：公釐（英吋）



## EDS-4009-3MST(-T) 型號

單位：公釐（英吋）



## 訂購資訊

| Model Name         | 10/100BaseT(X)<br>Ports (RJ45<br>Connector) | 100BaseFX<br>Ports (Multi-<br>mode SC<br>Connector) | 100BaseFX<br>Ports (Multi-<br>mode ST<br>Connector) | 100BaseFX<br>Ports (Single-<br>mode SC<br>Connector) | Operating<br>Voltage            | Pre-installed<br>Power Module | Operating<br>Temp. |
|--------------------|---------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|------------------------------------------------------|---------------------------------|-------------------------------|--------------------|
| EDS-4009-3MSC-LV   | 6                                           | 3                                                   | –                                                   | –                                                    | 9.6 to 60 VDC                   | PWR-100-LV                    | -10 to 60°C        |
| EDS-4009-3MSC-LV-T | 6                                           | 3                                                   | –                                                   | –                                                    | 9.6 to 60 VDC                   | PWR-100-LV                    | -40 to 75°C        |
| EDS-4009-3MSC-HV   | 6                                           | 3                                                   | –                                                   | –                                                    | 88 to 300 VDC,<br>85 to 264 VAC | PWR-105-HV-I                  | -10 to 60°C        |
| EDS-4009-3MSC-HV-T | 6                                           | 3                                                   | –                                                   | –                                                    | 88 to 300 VDC,<br>85 to 264 VAC | PWR-105-HV-I                  | -40 to 75°C        |
| EDS-4009-3MST-LV   | 6                                           | –                                                   | 3                                                   | –                                                    | 9.6 to 60 VDC                   | PWR-100-LV                    | -10 to 60°C        |
| EDS-4009-3MST-LV-T | 6                                           | –                                                   | 3                                                   | –                                                    | 9.6 to 60 VDC                   | PWR-100-LV                    | -40 to 75°C        |
| EDS-4009-3MST-HV   | 6                                           | –                                                   | 3                                                   | –                                                    | 88 to 300 VDC,<br>85 to 264 VAC | PWR-105-HV-I                  | -10 to 60°C        |
| EDS-4009-3MST-HV-T | 6                                           | –                                                   | 3                                                   | –                                                    | 88 to 300 VDC,<br>85 to 264 VAC | PWR-105-HV-I                  | -40 to 75°C        |
| EDS-4009-3SSC-LV   | 6                                           | –                                                   | –                                                   | 3                                                    | 9.6 to 60 VDC                   | PWR-100-LV                    | -10 to 60°C        |
| EDS-4009-3SSC-LV-T | 6                                           | –                                                   | –                                                   | 3                                                    | 9.6 to 60 VDC                   | PWR-100-LV                    | -40 to 75°C        |
| EDS-4009-3SSC-HV   | 6                                           | –                                                   | –                                                   | 3                                                    | 88 to 300 VDC,<br>85 to 264 VAC | PWR-105-HV-I                  | -10 to 60°C        |
| EDS-4009-3SSC-HV-T | 6                                           | –                                                   | –                                                   | 3                                                    | 88 to 300 VDC,<br>85 to 264 VAC | PWR-105-HV-I                  | -40 to 75°C        |

## 配件（選購）

### Storage Kits

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

## Power Supplies

|            |                                                                                                                                      |
|------------|--------------------------------------------------------------------------------------------------------------------------------------|
| HDR-60-24  | 60 W/2.5 A DIN-rail 24 VDC power supply, universal 85 to 264 VAC or 120 to 370 VDC input voltage, -30 to 70°C operating temperature  |
| NDR-120-24 | 120 W/5.0 A DIN-rail 24 VDC power supply, universal 90 to 264 VAC or 127 to 370 VDC input voltage, -20 to 70°C operating temperature |
| NDR-120-48 | 120 W/2.5 A DIN-rail 48 VDC power supply, universal 90 to 264 VAC or 127 to 370 VDC input voltage, -20 to 70°C operating temperature |
| NDR-240-48 | 240 W/5.0 A DIN-rail 48 VDC power supply, universal 90 to 264 VAC or 127 to 370 VDC input voltage, -20 to 70°C operating temperature |
| MDR-40-24  | DIN-rail 24 VDC power supply with 40W/1.7A, 85 to 264 VAC, or 120 to 370 VDC input, -20 to 70°C operating temperature                |
| MDR-60-24  | DIN-rail 24 VDC power supply with 60W/2.5A, 85 to 264 VAC, or 120 to 370 VDC input, -20 to 70°C operating temperature                |

## Software

|                         |                                                                          |
|-------------------------|--------------------------------------------------------------------------|
| LIC-MXviewOne-NEW-XN-SR | MXview One node license with customizable node quantity (minimum 1 node) |
|-------------------------|--------------------------------------------------------------------------|

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