

# EDS-G4008 系列

## 8G 埠全 Gigabit 網管型乙太網路交換器



### 特色與優點

- Turbo Ring 與 Turbo Chain ( 復原時間 <20 毫秒 @ 250 台交換器 ) , 以及透過 RSTP/STP 協議支援網路備援
- 大範圍功率輸入選項適用於彈性部署
- 小巧且富有彈性的外殼設計, 可輕易安裝至狹小空間
- 支援 MXstudio, 輕鬆實現可視化的工業網路管理
- 通過 IEC 62443-4-2 安全等級 2 認證

### 認證



### 簡介

EDS-G4008 交換器配備有 8 個 Gigabit 乙太網路連接埠, 使其非常適合用於將現有網路升級至 Gigabit 速度, 或是建立新的全 Gigabit 骨幹。Gigabit 傳輸速度可增加頻寬以提供更高效能, 並且透過三合一服務快速地在網路間傳輸大量資料。

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-G4008 系列是專門為高要求的應用所設計 ( 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。

### 通過 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 (FR\_Cyber10011/A2|IECEE 認證) 可協助我們的客戶滿足安全工業網路設計的合規要求。

### 規格

#### Ethernet Interface

10/100/1000BaseT(X) Ports (RJ45 connector)	8 Auto MDI/MDI-X connection Auto negotiation speed Full/Half duplex mode
Standards	IEEE 802.3 for 10BaseT IEEE 802.3u for 100BaseT(X) IEEE 802.3ab for 1000BaseT(X) IEEE 802.3x for flow control IEEE 802.3ad for Port Trunk with LACP IEEE 802.1Q for VLAN Tagging IEEE 802.1D-2004 for Spanning Tree Protocol IEEE 802.1w for Rapid Spanning Tree Protocol IEEE 802.1p for Class of Service IEEE 802.1X for authentication

#### Ethernet Software Features

Industrial Protocols	EtherNet/IP Modbus TCP PROFINET IO Device
Management	IPv4/IPv6 Flow control Back Pressure Flow Control DHCP Server/Client ARP RARP

	LLDP Port Mirroring (SPAN, RSPAN) Linkup Delay SMTP SNMP Trap SNMP Inform SNMPv1/v2c/v3 RMON TFTP SFTP HTTP HTTPS Telnet Syslog Private MIB Fiber check
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
Security	Broadcast storm protection Rate Limit Trust access control Static Port Lock MAC Sticky HTTPS/SSL SSH RADIUS TACACS+ Access control list Login and Password Policy DHCP Snooping
Time Management	SNTP NTP Server/Client NTP Authentication IEEE 1588v2 PTP (hardware-based) Supported power profiles: IEEE 1588 Default 2008, IEC 61850-9-3-2016, IEEE C37.238-2017

Protocols	IPv4/IPv6 TCP/IP UDP ICMP ARP RARP TFTP DNS NTP Client DHCP Server DHCP Client 802.1X QoS HTTPS HTTP Telnet SMTP SNMPv1/v2c/v3 RMON Syslog
MIB	P-BRIDGE MIB Q-BRIDGE MIB IEEE8021-SPANNING-TREE-MIB IEEE8021-PAE-MIB IEEE8023-LAG-MIB LLDP-EXT-DOT1-MIB LLDP-EXT-DOT3-MIB SNMPv2-MIB RMON MIB Groups 1, 2, 3, 9

#### 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
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#### Serial Interface

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

USB Connector	USB Type A (Reserved)
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#### 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 -30 to +3 V for state 0 Max. input current: 8 mA
Buttons	Reset button

## DIP Switch Configuration

DIP Switches	Turbo Ring, Master, Coupler, Reserve
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## Power Parameters

Connection	2 removable 4-contact terminal block(s)
Pre-installed Power Module	-LV/-LV-T models: PWR-100-LV -HV/-HV-T models: PWR-105-HV-I
Note	<p>The EDS-G4008 Series supports modular power supplies. The model names and power parameters are determined by the installed power module.</p> <p>For example: EDS-G4008-T + PWR-100-LV = EDS-G4008-LV-T EDS-G4008-T + PWR-105-HV-I = EDS-G4008-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-G4008-LV-T with the PWR-105-HV-I, refer to the specifications of the EDS-G4008-HV-T.</p>
Input Voltage	-LV/-LV-T models: 12/24/48 VDC, Redundant dual inputs -HV/-HV-T models: 110/220 VDC/VAC, Single input
Operating Voltage	-LV/-LV-T models: 9.6 to 60 VDC -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 -HV/-HV-T models: 110-220 VAC, 50-60 Hz, 0.30-0.20 A or 110-220 VDC, 0.30-0.20 A
Overload Current Protection	Supported
Reverse Polarity Protection	Supported
Power Consumption (Max.)	EDS-G4008-LV(-T) models: 8.84 W EDS-G4008-HV(-T) models: 10.73 W

## Physical Characteristics

IP Rating	IP40
Dimensions	55 x 140 x 120 mm (2.17 x 5.51 x 4.72 in)
Weight	859.5 g (1.89 lb)
Installation	DIN-rail mounting Wall mounting (with optional kit)
Housing	Metal

## Environmental Limits

Operating Temperature	Standard models: -10 to 60°C (14 to 140°F) Wide temp. models: -40 to 75°C (-40 to 167°F)
Storage Temperature (package included)	-40 to 85°C (-40 to 185°F)
Ambient Relative Humidity	5 to 95% (non-condensing)

## Standards and Certifications

Industrial Cybersecurity	IEC 62443-4-2 Security Level 2
Safety	UL 61010-2-201 EN 62368-1 (LVD)
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
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 IEEE 1613 Class 1
Hazardous Locations	-LV/-LV-T models: ATEX IECEX Class I Division 2

#### MTBF

Time	EDS-G4008-LV/-LV-T models: 1,098,085 hrs EDS-G4008-HV/-HV-T models: 511,204 hrs
Standards	Telcordia Standard SR-332

#### Warranty

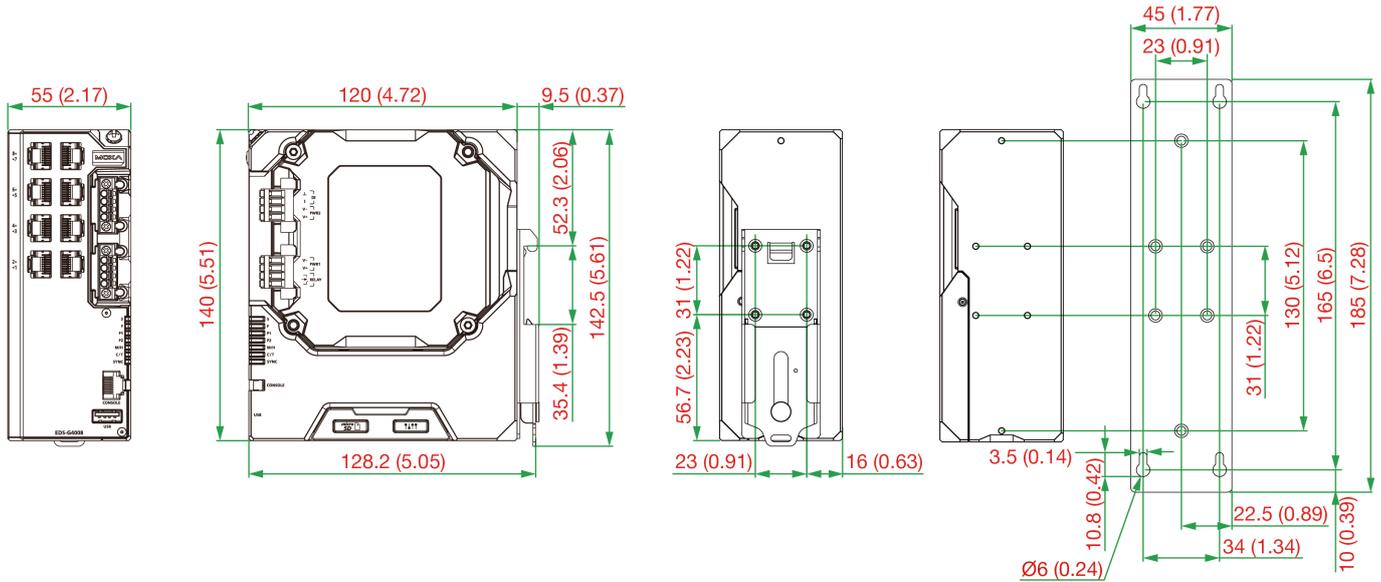
Warranty Period	5 years
Details	See <a href="http://www.moxa.com/tw/warranty">www.moxa.com/tw/warranty</a>

#### Package Contents

Device	1 x EDS-G4008 Series switch
Documentation	1 x quick installation guide 1 x product notice, Simplified Chinese 1 x product certificates of quality inspection, Simplified Chinese 1 x warranty card

# 尺寸

單位：公釐 (英吋)



## 訂購資訊

Model Name	10/100/1000BaseT(X) Ports, RJ45 Connector	Operating Voltage	Pre-installed Power Module	Operating Temp.
EDS-G4008-LV	8	9.6 to 60 VDC	PWR-100-LV	-10 to 60°C
EDS-G4008-LV-T	8	9.6 to 60 VDC	PWR-100-LV	-40 to 75°C
EDS-G4008-HV	8	88 to 300 VDC, 85 to 264 VAC	PWR-105-HV-I	-10 to 60°C
EDS-G4008-HV-T	8	88 to 300 VDC, 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

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