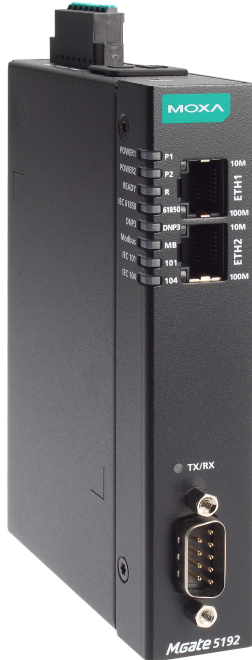


MGate 5192 系列

1 埠 IEC 61850 轉 DNP3/IEC 101/IEC 104/Modbus 閘道器



特色與優點

- 支援 IEC 61850 MMS 用戶端
- 支援 DNP3 串列/TCP/UDP 外站
- 支援 IEC 60870-5-101 伺服器
- 支援 IEC 60870-5-104 用戶端
- 支援 Modbus RTU/ASCII/TCP 伺服器 (從屬裝置)
- 透過乙太網路串聯與雙子網路彈性部署
- 嵌入式流量監控/診斷資訊，便於故障排除
- 透過網頁式主控台輕鬆配置裝置
- microSD 卡可用於備份/複製配置
- 支援雙備援 DC 電源輸入與 1 個繼電器輸出
- 串列內建埠 2kV 隔離保護
- 提供 -40 至 75°C 寬溫度操作型號可供選用

認證



簡介

MGate 5192 是工業通訊協定閘道器，可將 IEC 61850 MMS 轉換為 Modbus RTU/ASCII/TCP、DNP3 串列/TCP/UDP、IEC 60870-5-101 或 IEC 60870-5-104 通訊。若要將現有 IEC 61850 裝置 (例如 IED 或中繼器) 整合到 Modbus、DNP3、IEC 101 或 IEC 104 網路，請使用 MGate 5192 做為 IEC 61850 MMS 用戶端來收集和與 Modbus RTU/ASCII/TCP、DNP3 串列/TCP/UDP、IEC 60870-5-101 或 IEC 60870-5-104 SCADA/裝置交換數據。所有型號均有強固緊湊的金屬外殼加以保護，可使用 DIN 軌道安裝，而且提供內建串列隔離。堅固設計適用於各種工業應用，例如發電廠與可再生能源相關應用。

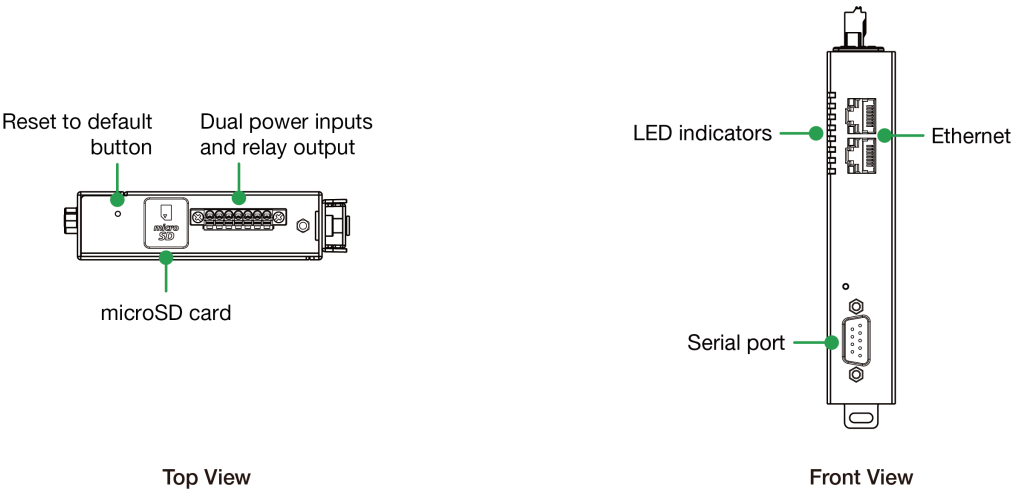
輕鬆配置

MGate 5192 閘道器提供 Web 主控台，無需安裝額外的公用程式即可輕鬆配置。此外，HTTPS 通訊加密還可確保更高的網路安全性。在大多數資料擷取應用中，使用 Modbus 命令設定裝置的過程可能既耗時又會增加成本。MGate 5192 閘道器提供透過 CSV 檔案離線設定的功能，可協助快速完成 Modbus 設定。MGate 閘道器提供可透過軟體設定的 RS-485 兩線式上拉/下拉與終端電阻功能，無需開啟機箱即可完成設定，大幅減少操作負擔。

輕鬆排除故障

MGate 5192 閘道器提供多種維護功能，包括 LED 狀態指示燈、通訊協定診斷、流量監控及標籤檢視等，可縮短故障排除時間並降低維護成本。這些工具可協助您擷取與檢查資料，輕鬆找出問題的根本原因，尤其在安裝階段特別實用。MGate 閘道器也提供狀態監控和失效防護功能。IEC 61850 裝置中斷連線或無回應時，狀態監控功能會通知 SCADA 系統，此時程序 SCADA 會取得每部終端裝置的狀態，並發出警報通知操作員。失效防護功能會保有最新數據，而不會將輸出數據傳送給 IEC 61850 裝置。當 SCADA 中斷連線時，終端裝置會保持最後一項作業而不會離線。

外觀



規格

Ethernet Interface

10/100BaseT(X) Ports (RJ45 connector)	2 Auto MDI/MDI-X connection
Magnetic Isolation Protection	1.5 kV (built-in)

Ethernet Software Features

Industrial Protocols	IEC 61850 MMS Client Modbus TCP Server IEC 60870-5-104 Server DNP3 TCP/UDP Outstation
Configuration Options	Web Console (HTTPS) Device Search Utility (DSU)
Management	ARP DHCP Client DNS HTTP HTTPS SMTP SNMP Trap SNMPv1/v2c/v3 TCP/IP UDP
MIB	RFC1213, RFC1317
Time Management	NTP Client

Security Functions

Authentication	Local database
Encryption	HTTPS AES-128 AES-256 SHA-256
Security Protocols	SNMPv3 SNMPv2c Trap HTTPS (TLS 1.3)

Serial Interface

No. of Ports	1
Connector	DB9 male
Serial Standards	RS-232/422/485
Baudrate	300 bps to 921.6 kbps
Data Bits	7, 8
Parity	None Even Odd Space Mark
Stop Bits	1, 2
Flow Control	RTS Toggle (RS-232 only) RTS/CTS
RS-485 Data Direction Control	Automatic Data Direction Control (ADDC)
Pull High/Low Resistor for RS-485	1 kilo-ohm, 150 kilo-ohms software configurable
Terminator for RS-485	120 ohms software configurable
Isolation	2 kV (built-in)

Serial Signals

RS-232	TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND
RS-422	Tx+, Tx-, Rx+, Rx-, GND
RS-485-2w	Data+, Data-, GND
RS-485-4w	Tx+, Tx-, Rx+, Rx-, GND

Serial Software Features

Industrial Protocols	Modbus RTU/ASCII Server IEC 60870-5-101 Server DNP3 Serial Outstation
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IEC 61850

Mode	MMS Client
Max. No. of Server Connections	32
Max. No. of Data Objects	5000 points

Modbus TCP

Mode	Server
Functions Supported	1, 2, 3, 4, 5, 6, 15, 16, 23
Max. No. of Client Connections	16
Max. No. of Data Tags	5000 tags

Modbus RTU/ASCII

Mode	Server
Functions Supported	1, 2, 3, 4, 5, 6, 15, 16, 23
Max. No. of Client Connections	1
Max. No. of Data Tags	5000 tags

DNP3 TCP/UDP

Mode	Outstation
Objects Supported	Binary inputs Analog inputs Counters Frozen counters Binary outputs Analog outputs
Max. No. of Client Connections	1
Protocol Security	Secure Authentication v5
Max. No. of Objects	5000 points

DNP3 Serial

Mode	Outstation
Objects Supported	Binary inputs Analog inputs Counters Frozen counters Binary outputs Analog outputs
Max. No. of Client Connections	1
Max. No. of Objects	5000 points

IEC 60870-5-101

Mode	Server (balanced/unbalanced)
Objects Supported	Single point Double point Step position Bit string of 32 bit Measured value (normalized) Measured value (scaled) Measured value (floating) Integrated totals
Max. No. of Client Connections	1
Max. No. of Information Objects	5000 points

IEC 60870-5-104

Mode	Server
Objects Supported	Single point Double point Step position Bit string of 32 bit Measured value (normalized) Measured value (scaled) Measured value (floating) Integrated totals

Max. No. of Client Connections	32
Max. No. of Information Objects	5000 points
Memory	
microSD Slot	Up to 32 GB (SD 2.0 compatible)
Power Parameters	
Input Voltage	12 to 48 VDC
Input Current	455 mA (max)
Power Connector	Spring-type Euroblock terminal
Relays	
Contact Current Rating	Resistive load: 2 A @ 30 VDC
Physical Characteristics	
Housing	Metal
IP Rating	IP30
Dimensions	25 x 90 x 129.6 mm (0.98 x 3.54 x 5.1 in)
Weight	294 g (0.65 lb)
Environmental Limits	
Operating Temperature	-40 to 75°C (-40 to 167°F)
Storage Temperature (package included)	-40 to 85°C (-40 to 185°F)
Ambient Relative Humidity	5 to 95% (non-condensing)
Standards and Certifications	
Safety	EN 61010-2-201 UL 61010-2-201
EMC	EN 61000-6-2/-6-4
EMI	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: 2 kV; Signal: 4 kV IEC 61000-4-6 CS: 10 V/m IEC 61000-4-8 PFMF: 100 A/m
Shock	IEC 60068-2-27
Vibration	IEC 60068-2-6 IEC 60068-2-64
Power Substation	IEEE 1613 IEC 61850-3
International Approval	UKCA KC
MTBF	
Time	1,240,821 hrs
Standards	Telcordia SR332

Warranty

Warranty Period	5 years
Details	See www.moxa.com/tw/warranty

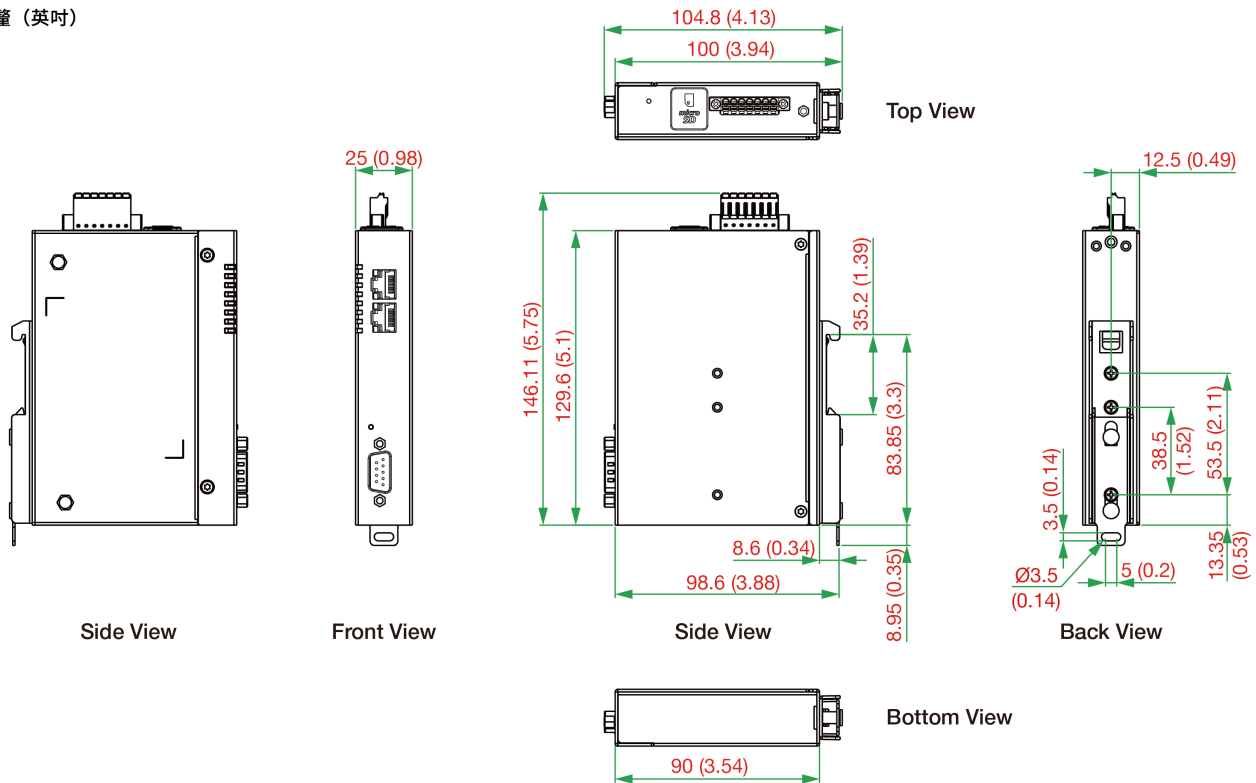
Package Contents

Device	1 x MGate 5192 Series gateway
Documentation	1 x quick installation guide 1 x warranty card

尺寸

DIN 軌道安裝

單位：公釐（英吋）



單位：公釐（英吋）

單位：公釐（英吋）



單位：公釐（英吋）



訂購資訊

Model Name	No. of Serial Ports	Operating Temperature
MGate 5192-T	1	-40 to 75°C

配件（選購）

Connectors

Mini DB9F-to-TB	DB9 female to terminal block connector
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Wall-Mounting Kits

WK-25	Wall-mounting kit, 2 plates, 4 screws, 25 x 43 x 2 mm
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