

MGate 5217 系列

2 埠 Modbus RTU/ASCII/TCP 轉 BACnet/IP 閘道器



特色與優點

- 支援 Modbus RTU/ASCII/TCP 用戶端 (主控裝置) / 伺服器 (從屬裝置)
- 支援 BACnet/IP 伺服器 / 用戶端
- 支援 600 個點和 1200 個點型號
- 支援快速數據通訊的 COV
- 支援使得每個 Modbus 裝置成為個別 BACnet/IP 裝置的虛擬節點
- 支援透過編輯 Excel 試算表來快速設定 Modbus 命令與 BACnet/IP 物件
- 嵌入式流量和診斷資訊，便於故障排除
- 輕鬆佈線的內建乙太網路串接
- 工業設計，-40 至 75°C 操作溫度範圍
- 串列內建埠 2kV 隔離保護
- 雙交流/直流電源
- 5 年保固

認證



簡介

MGate 5217 系列包含 2 埠 BACnet 閘道器，可將 Modbus RTU/ASCII/TCP 伺服器 (從屬裝置) 裝置轉換為 BACnet/IP 用戶端系統或將 BACnet/IP 伺服器裝置轉換為 Modbus RTU/ASCII/TCP 用戶端 (主控裝置) 系統。根據網路的規模，您可以使用 600 個點或 1200 個點的閘道器型號。所有型號都堅固耐用，可安裝在 DIN 軌道上，可在寬溫度範圍內運作，並為串列訊號提供內建 2-kV 隔離。

透過 Web 主控台和 Excel 電子表格輕鬆配置

MGate 5217 系列採用直覺式 UI 設計，配置更便利。如此一來，您可以輕鬆存取通訊協定轉換模式並透過一些步驟完成配置，不需要在電腦中安裝其他的工程公用程式。此外，MGate 可以匯入 Excel 試算表來產生 Modbus 命令與 BACnet/IP 物件，因此編輯起來相當容易。

Modbus 和 BACnet/IP 通訊協定流量監控和診斷

MGate 5217 閘道器支援 Modbus 和 BACnet/IP 通訊協定流量監控和診斷，故障排除更容易，尤其在安裝階段。不正確的軟體參數 (例如錯誤的從屬裝置 ID 和暫存器位址) 或不正確的命令配置會造成通訊問題。透過診斷，您可以檢查通訊狀態並查看值，完全一目了然。有了 Modbus/BACnet 通訊協定流量監控，您可以檢查所擷取的數據，並輕鬆判斷問題根本原因。

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	Modbus TCP Client (Master) / Server (Slave) BACnet/IP Server / Client
Configuration Options	Web Console (HTTP/HTTPS)

	Device Search Utility (DSU) Telnet Console
Management	ARP DHCP Client DNS HTTP HTTPS SMTP SNMP Trap SNMPv1/v2c/v3 TCP/IP Telnet UDP NTP Client
MIB	RFC1213, RFC1317
Time Management	NTP Client

Serial Interface

No. of Ports	2
Connector	DB9 male
Serial Standards	RS-232/422/485
Baudrate	50 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 DTR/DSR
RS-485 Data Direction Control	Automatic Data Direction Control (ADDC)
Pull High/Low Resistor for RS-485	1 kilo-ohm, 150 kilo-ohms
Terminator for RS-485	120 ohms
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 Client (Master) Modbus RTU/ASCII Server (Slave)
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Modbus RTU/ASCII

Mode	Client (Master) Server (Slave)
Functions Supported	1, 2, 3, 4, 5, 6, 16
Max. No. of Commands	MGate 5217I-600-T: 600 MGate 5217I-1200-T: 1200

Modbus TCP

Mode	Client (Master) Server (Slave)
Functions Supported	1, 2, 3, 4, 5, 6, 16
Max. No. of Server Connections	32
Max. No. of Commands	MGate 5217I-600-T: 600 MGate 5217I-1200-T: 1200

BACnet/IP

Mode	Client Server
Memory Size	MGate 5217I-600-T: 600 points MGate 5217I-1200-T: 1200 points
Supported BACnet Object	Binary Input Binary Output Binary Value Analog Input Analog Output Analog Value Multi-state Input Multi-state Output Multi-state Value Integer Value Positive Integer Value

Security Functions

Authentication	Local database
Encryption	HTTPS AES-128 AES-256 SHA-256
Security Protocols	SNMPv3 SNMPv2c Trap HTTPS (TLS 1.2)

Power Parameters

Input Voltage	24 VAC 12 to 48 VDC
Input Current	300 mA @ 24 VAC 510 mA @ 12 VDC
Power Connector	Screw-fastened Euroblock terminal

Relays

Contact Current Rating	Resistive load: 1 A @ 30 VDC
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Physical Characteristics

Housing	Plastic
IP Rating	IP30
Dimensions (without ears)	29 x 89.2 x 118.5 mm (1.14 x 3.51 x 4.67 in)
Dimensions (with ears)	29 x 89.2 x 124.5 mm (1.14 x 3.51 x 4.90 in)
Weight	380 g (0.84 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

EMC	EN 55032/35
EMI	CISPR 32, FCC Part 15B Class A
EMS	IEC 61000-4-2 ESD: Contact: 6 kV; Air: 8 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 10 V/m IEC 61000-4-4 EFT: Power: 4 kV; Signal: 2 kV IEC 61000-4-5 Surge: Power: 2 kV IEC 61000-4-6 CS: 10 V IEC 61000-4-8 PFMF IEC 61000-4-11
Safety	UL 60950-1 UL 62368-1 IEC 60950-1 IEC 62368-1
Freefall	IEC 60068-2-32
Shock	IEC 60068-2-27
Vibration	IEC 60068-2-6 IEC 60068-2-64
International Approval	KC

MTBF

Time	1,277,500 hrs
Standards	Telcordia Standard SR-332

Warranty

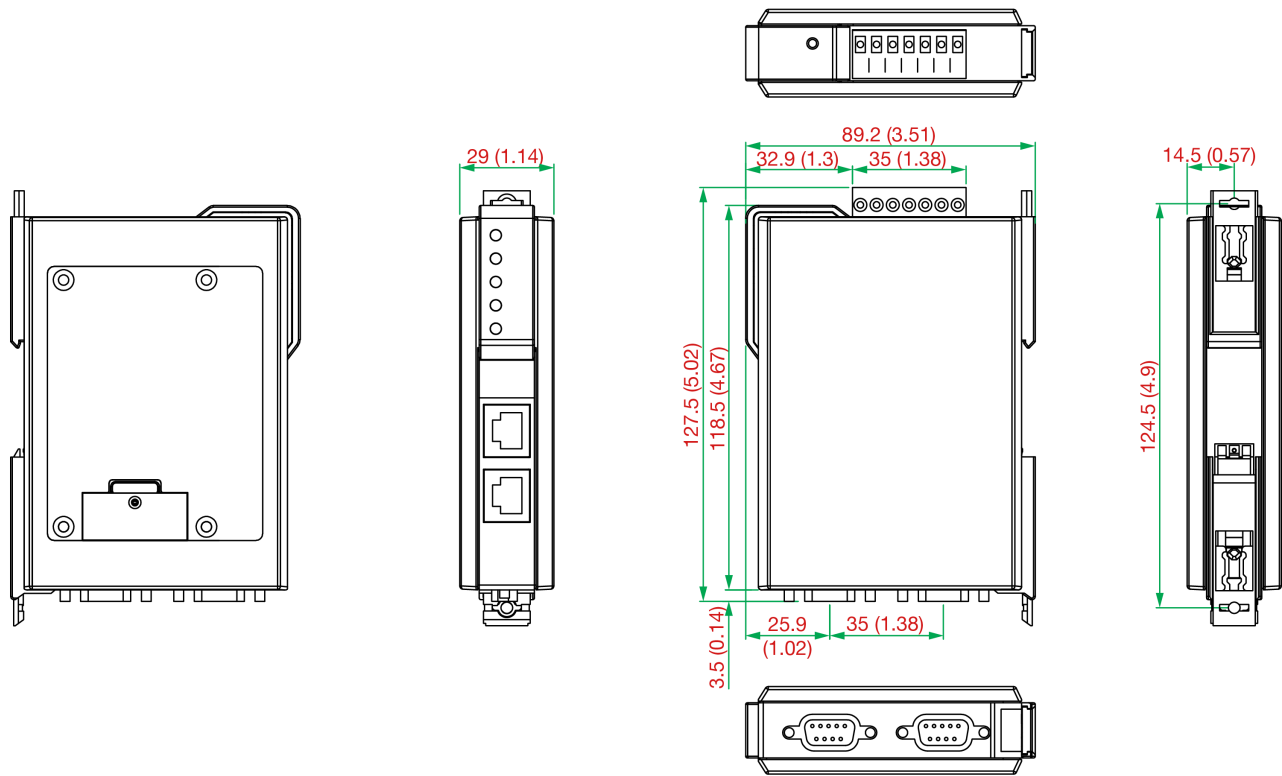
Warranty Period	5 years
Details	See www.moxa.com/tw/warranty

Package Contents

Device	1 x MGate 5217 Series gateway
Documentation	1 x quick installation guide 1 x warranty card

尺寸

單位：公釐（英吋）



訂購資訊

Model Name	Data Points
MGate 5217I-600-T	600
MGate 5217I-1200-T	1200

配件（選購）

Cables

CBL-F9M9-150	DB9 female to DB9 male serial cable, 1.5 m
CBL-F9M9-20	DB9 female to DB9 male serial cable, 20 cm

Connectors

Mini DB9F-to-TB	DB9 female to terminal block connector
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Power Cords

CBL-PJTB-10	Non-locking barrel plug to bare-wire cable
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