

# 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 主控裝置/用戶端
- 支援 BACnet/IP 從屬裝置/伺服器
- 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
- 透過編輯 Excel 電子表格快速設定 Modbus 命令
- 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
- 基於 IEC 62443 的資安防護功能

### 認證



### 簡介

MGate 5217I 系列包含 2 埠 BACnet 閘道器，可將 Modbus RTU/ASCII/TCP 轉換為 BACnet/IP 通訊協定。根據網路的規模，閘道器提供 600 個點和 1200 個點模型。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 2kV 隔離。

### 透過 Web 主控台和 Excel 電子表格輕鬆配置

MGate 5217I 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 電子表格來產生 Modbus 命令，因此編輯 Modbus 命令相當容易。

### Modbus 和 BACnet/IP 通訊協定流量監控和診斷

MGate 5217I 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，完全一目瞭然。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。

### 基於 IEC 62443 的資安防護功能

使用符合 IEC 62443-4-2 規格並配備基本安全功能的網路裝置是抵禦網路攻擊的有效預防措施。MGate 5217I 系列具備多項基本安全功能，包括密碼破解防禦、探測程式和數據洩露防護、白名單和帳戶管理。

### 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), BACnet/IP Server (Slave)
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	ADDC® (automatic data direction control)
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 Master
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### Modbus RTU/ASCII

Mode	Master
Functions Supported	1, 2, 3, 4, 5, 6, 16
Max. No. of Commands	MGate 52171-600-T: 600 (up to 300 commands/per serial port) MGate 52171-1200-T: 1200 (up to 600 commands/per serial port)

### Modbus TCP

Mode	Client (Master)
Functions Supported	1, 2, 3, 4, 5, 6, 16

Max. No. of Server Connections	32
Max. No. of Commands	MGate 52171-600-T: 600 MGate 52171-1200-T: 1200

### BACnet/IP

Mode	Server (Slave)
Memory Size	MGate 52171-600-T: 600 points MGate 52171-1200-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

### 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 DIPs

Safety	UL 62368-1, IEC 62368-1
Freefall	IEC 60068-2-32
Shock	IEC 60068-2-27
Vibration	IEC 60068-2-6, IEC 60068-2-64

### MTBF

Time	1,277,500 hrs
Standards	Telcordia SR332

### Warranty

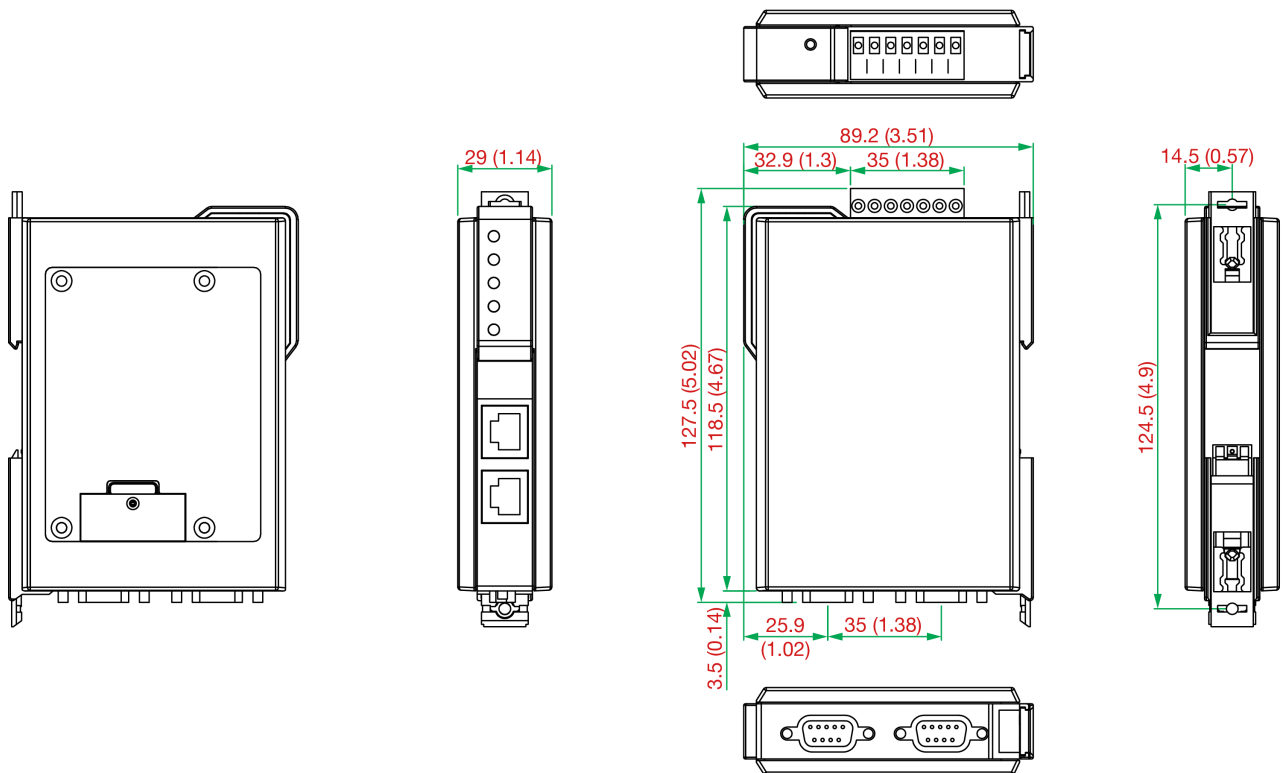
Warranty Period	5 years
Details	See <a href="http://www.moxa.com/tw/warranty">www.moxa.com/tw/warranty</a>

### Package Contents

Device	1 x 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	Nonlocking barrel plug to bare-wire cable
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