MGate 5217 Series
Quick Installation Guide

Version 1.1, January 2021

Technical Support Contact Information
www.moxa.com/support

P/N: 1802052170011

Overview

The MGate 5217 is an industrial Ethernet gateway to bring Modbus RTU/ASCII/TCP devices to BACnet/IP network.

Package Checklist

Before installing the MGate 5217, verify that the package contains the following items:

- 1 MGate 5217 gateway
- Quick installation guide (printed)
- Warranty card

Optional Accessories:

- **DK-35A:** DIN-rail mounting kit (35 mm)
- **Mini DB9F-to-TB Adaptor:** DB9 female to terminal block adapter
- **DR-4524:** 45W/2A DIN-rail 24 VDC power supply with universal 85 to 264 VAC input
- **DR-75-24:** 75W/3.2A DIN-rail 24 VDC power supply with universal 85 to 264 VAC input
- **DR-120-24:** 120W/5A DIN-rail 24 VDC power supply with 88 to 132 VAC/176 to 264 VAC input by switch

NOTE Please notify your sales representative if any of the above items is missing or damaged.

Hardware Introduction

LED Indicators

Name	Color	Function
PWR1	Red	Power is being supplied to the power input
PWR2	Red	Power is being supplied to the power input
RDY	Red	Steady: Power is on and the unit is booting up
		Blinking: IP conflict, DHCP or BOOTP server did not respond properly, or a relay output occurred
	Green	Steady: Power is on and the unit is functioning normally
		Blinking: Unit is responding to locate function
	Off	Power is off or power error condition exists
Ethernet	Amber	10 Mbps Ethernet connection
	Green	100 Mbps Ethernet connection
	Off	Ethernet cable is disconnected or has a short
P1, P2	Amber	Serial port is receiving data
	Green	Serial port is transmitting data
	Off	Serial port is not transmitting or receiving data

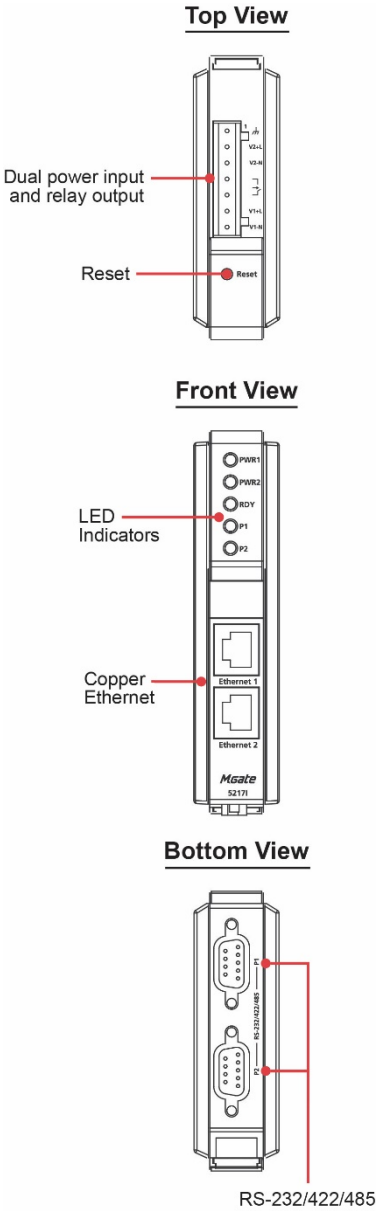
Reset Button

Press the Reset button continuously for 5 sec to load factory defaults:

The reset button is used to load factory defaults. Use a pointed object such as a straightened paper clip to hold the reset button down for five seconds. Release the reset button when the Ready LED stops blinking.

Panel Layouts

The MGate 5217 has two RJ45 Ethernet ports and two DB9 serial ports for connecting to devices.



Hardware Installation Procedure

STEP 1: After removing the MGate 5217 from the box, connect the MGate 5217 to a network. Use a standard straight-through Ethernet cable to connect the unit to a hub or switch. When setting up or testing the MGate 5217, you might find it convenient to connect directly to your computer's Ethernet port. In this case, use a crossover Ethernet cable.

STEP 2: Connect the serial port(s) of the MGate 5217 to a serial device.

STEP 3: The MGate 5217 is designed to be attached to a DIN rail or mounted on a wall. The two sliders on the MGate 5217 rear panel serve a dual purpose. For wall mounting, both sliders should be extended. For DIN-rail mounting, start with one slider pushed in, and the other slider extended. After attaching the MGate 5217 on the DIN rail, push the extended slider in to lock the device server to the rail. The two placement options are illustrated in the accompanying figures.

STEP 4: Connect the 12 to 48 VDC or 24 VAC power source to terminal block power input.

WARNING

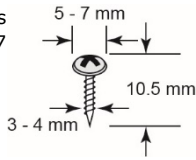
This product is intended to be supplied with a UL-listed power adapter or DC power source marked 'L.P.S' or 'Limited Power Source', rated 12 to 48 VDC, 510m A (min.) or 24VAC, 50/60Hz, 300mA (min.), and Tma 75°C (min.).

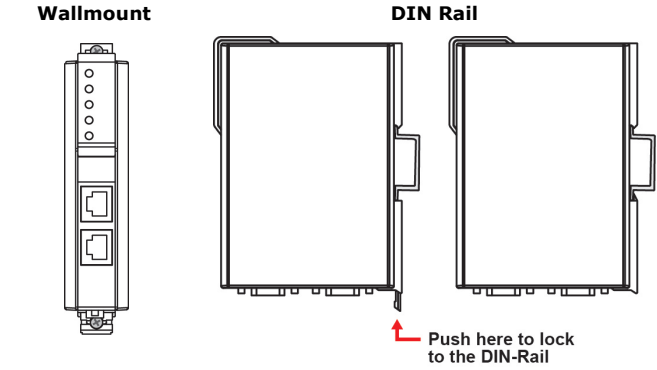
WARNING

The power cord adapter should be connected to a socket outlet with an earthing connection, or the power cord and adapter must comply with Class II construction.

Wall or Cabinet Mounting

Mounting the MGate 5217 Series on to a wall requires two screws. The heads of the screws should be 5 to 7 mm in diameter, the shafts should be 3 to 4 mm in diameter, and the length of the screws should be more than 10.5 mm.



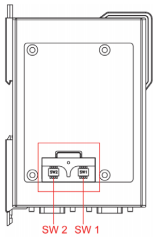


WARNING

The MGate 5217 shall be mounted at a height less than 2 meters.

Pull-high, Pull-low, and Terminator for RS-485

When you remove the MGate 5217's top cover, you will find the DIP switches to adjust each serial port's pull-high resistor, pull-low resistor, and terminator. Serial port1/port2 can be adjusted by SW1/SW2, respectively.



DIP Switch	1	2	3	4
	Pull-high resistor	Pull-low resistor	Terminator	Reserve
ON	1 kΩ	1 kΩ	120 Ω	Reserve
OFF	150 kΩ*	150 kΩ*	–*	Reserve

* Default Settings

Software Installation Information

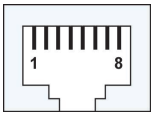
You can download the User's Manual and Device Search Utility (DSU) from Moxa's website: www.moxa.com. Please refer to the User's Manual for additional details on using DSU.

The MGate 5217 also supports login via a web browser.

Default IP address: **192.168.127.254**
Default account: **admin**
Default password: **moxa**

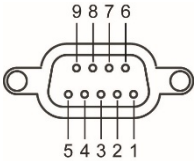
Pin Assignments

Ethernet Port (RJ45)



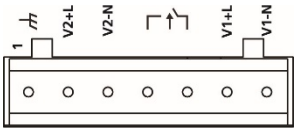
Pin	Signal
1	Tx+
2	Tx-
3	Rx+
6	Rx-

Serial Port (DB9 Male)



Pin	RS-232	RS-422/ RS-485 (4W)	RS-485 (2W)
1	DCD	TxD-	–
2	RxD	TxD+	–
3	TxD	RxD+	Data+
4	DTR	RxD-	Data-
5	GND	GND	GND
6	DSR	–	–
7	RTS	–	–
8	CTS	–	–
9	–	–	–

Power Input and Relay Output Pinouts



	V2+L	V2-N			V1+L	V1-N
Shielded Ground	AC/DC Power Input 2	AC/DC Power Input 2	Relay Output	Relay Output	AC/DC Power Input 1	AC/DC Power Input 1

Specifications

Power Requirements	
Power Input	12 to 48 VDC and 24 VAC
Power Consumption	24 VAC, 300 mA (max.) 12 to 48 VDC, 510 mA (max.)
Operating Temperature	-40 to 75°C (-40 to 167°F)
Storage Temperature	-40 to 85°C (-40 to 185°F)
Operating Humidity	5 to 95% RH
Magnetic Isolation Protection (serial)	2 kV
Dimensions Without ears: With ears extended:	29 x 89.2 x 118.5 mm (1.14 x 3.51 x 4.67 in) 29 x 89.2 x 124.5 mm (1.14 x 3.51 x 4.9 in)
Relay Output	1 digital relay output to alarm (normal close): current carrying capacity 1 A @ 30 VDC

WARNING

If the battery is replaced with the wrong type, the risk of an explosion is highly likely.