

# **MGate 5135/5435 Series Quick Installation Guide**

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**Version 1.0, September 2022**

**Technical Support Contact Information**  
**[www.moxa.com/support](http://www.moxa.com/support)**

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**P/N: 1802051350010**



## Overview

The MGate 5135/5435 is an industrial Ethernet gateway for Modbus RTU/ASCII/TCP and EtherNet/IP network communications.

## Package Checklist

Before installing the MGate 5135/5435, verify that the package contains the following items:

- 1 MGate 5135 or MGate 5435 gateway
- Quick installation guide (printed)
- Warranty card

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

### *Optional Accessories (can be purchased separately)*

- **Mini DB9F-to-TB:** DB9 female to terminal block connector
- **WK-25:** Wall-mounting kit, 2 plates, 4 screws, 25 x 43 x 2 mm

## Hardware Introduction

### LED Indicators

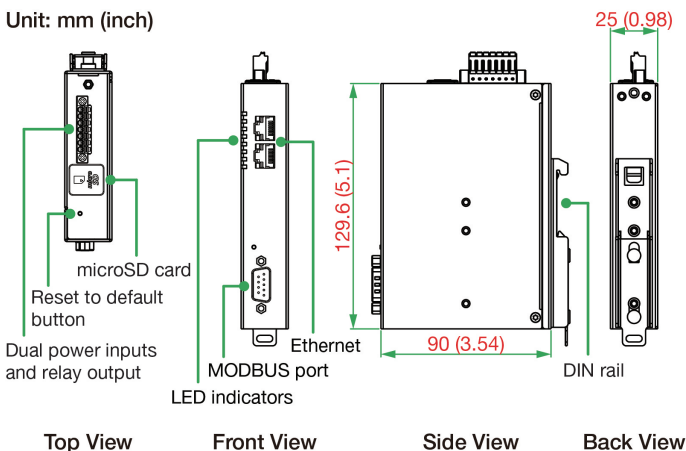
LED	Color	Description
PWR 1, PWR 2	Green	Power is on.
	Off	Power is off.
Ready	Off	Power is off.
	Green	Steady: Power is on, and the MGate is functioning normally.
		Blinking (1 sec.): The MGate has been located by the MGate Manager's Location function.
	Red	Steady: Power is on, and the MGate is booting up.
		Blinking (0.5 sec.): Indicates an IP conflict, or the DHCP or BOOTP server is not responding properly.
Blinking (0.1 sec.): the microSD card failed.		
EtherNet/IP Adapter	Off	No connection has been established.
	Green	Steady: I/O data is being exchanged with all of the connections.
	Red	Steady: Rejects the connection due to incorrect configurations.
		Blinking (1 sec.): One or more connections timed out.
Modbus RTU/ASCII/TCP Client	Off	No communication with Modbus device.
	Green	Modbus communication in progress.
	Red	Blinking (1 sec.): Communication error. 1. The Modbus slave device returned an error (exception). 2. Received a frame error (parity error, checksum error). 3. Timeout (the slave device does not respond).

LED	Color	Description
		4. TCP connection failed (only for Modbus TCP).
ETH 1, ETH 2	Green	Steady ON: Ethernet link on at 100Mbps.
		Blinking: Data transmitting at 100Mbps.
	Amber	Steady ON: Ethernet link on at 10Mbps.
		Blinking: Data transmitting at 10Mbps.
Off	Ethernet is not connected.	

## Dimensions

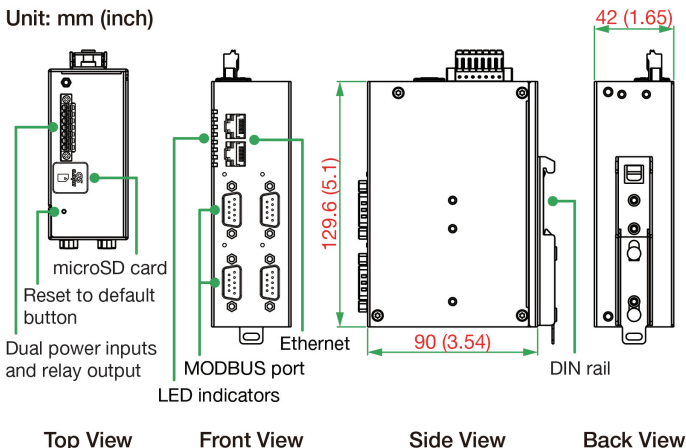
### MGate 5135

Unit: mm (inch)



### MGate 5435

Unit: mm (inch)



## Reset Button

Restore the MGate to factory default settings by using a pointed object (such as a straightened paper clip) to hold the reset button down until the Ready LED stops blinking (approx. five seconds).

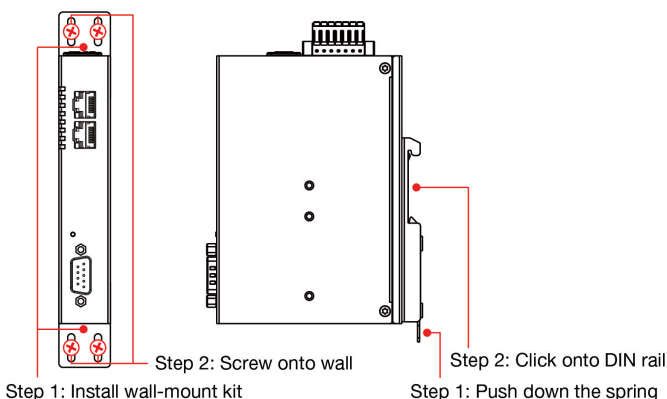
## Hardware Installation Procedure

1. Connect the power adapter. Connect the 12 to 48 VDC power line or DIN-rail power supply to the terminal block of the MGate 5135/5435 device.
2. Use a Modbus serial cable to connect the MGate to a Modbus slave device.
3. Use an Ethernet cable to connect the MGate to the EtherNet/IP controller.
4. We designed the MGate 5135/5435 to attach to a DIN rail or mounted on a wall. For DIN-rail mounting, push down the spring and properly attach it to the DIN rail until it “snaps” into place. For wall mounting, install the wall-mount kit (optional) first and then screw the device onto the wall.

The following figure illustrates the two mounting options:

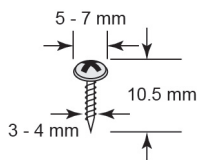
### Wall-Mount Installation

### DIN-Rail Installation



## Wall- or Cabinet-mounting

We provide two metal plates for mounting the unit on a wall or inside a cabinet. Attach the plates to the unit's rear panel with screws. With the plates attached, use screws to mount the unit on a wall. 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 over 10.5 mm.



## Software Installation Information

Please download the User Manual and Device Search Utility (DSU) from Moxa's website: [www.moxa.com](http://www.moxa.com)

Refer to the User's Manual for additional details on using the DSU. The MGate 5135/5435 also supports login via a web browser.

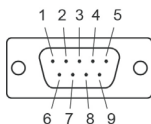
Default IP address: **192.168.127.254**

Create your administration account and password when you log in the first time.

## Pin Assignments

### Modbus Serial Port (Male DB9)

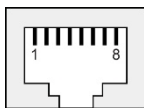
Pin	RS-232	RS-422/ RS-485 (4W)	RS-485 (2W)
1	DCD	TxD-(A)	-
2	RXD	TxD+(B)	-
3	TXD	RxD+(B)	Data+(B)
4	DTR	RxD-(A)	Data-(A)
5*	GND	GND	GND
6	DSR	-	-
7	RTS	-	-
8	CTS	-	-
9	-	-	-



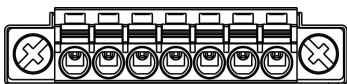
\*Signal ground

### Ethernet Port (RJ45)

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



### Power Input and Relay Output Pinouts



V2+	V2-				V1+	V1-
DC Power Input 2	DC Power Input 2	N.O.	Common	N.C.	DC Power Input 1	DC Power Input 1

## Specifications

Power Parameters	
Power Input	12 to 48 VDC
Power Consumption	MGate 5135 Series: 455 mA max. MGate 5435 Series: 455 mA max.
Relays	
Contact Current Rating	Resistive load: 2 A @ 30 VDC
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% RH
Physical Characteristics	
Dimensions	MGate 5135 Series: 25 x 90 x 129.6 mm (0.98 x 3.54 x 5.1 in) MGate 5435 Series: 42 x 90 x 129.6 mm (1.65 x 3.54 x 5.1 in)

Weight	MGate 5135 Series: 294 g (0.65 lb) MGate 5435 Series: 403 g (0.89 lb)
<b>Reliability</b>	
Alert Tools	Built-in buzzer and RTC
MTBF	MGate 5135 Series: 1,240,821 hrs. MGate 5435 Series: 689,989 hrs.



## ATTENTION

Power terminal plug wiring size is 28-14 AWG, tighten to 1.7 in-lbs, wire Min. 80°C, Use copper conductors only.



Hot Surface Label.



Functional earth terminal.



## ATTENTION

- This device is an open-type equipment and intended to be installed in a suitable enclosure.
- If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.
- When installing, the assembler is responsible for the safety of the system in which the equipment is incorporated.

- NOTE**
- This device is intended for use indoors and at altitudes up to 2,000 meters.
  - Pollution degree 2.

**NOTE** Clean the device with a soft cloth, dry or with water.

**NOTE** The power input specification complies with the requirements of SELV (Safety Extra Low Voltage), and the power supply should comply with UL 61010-1 and UL 61010-2-201.

For any repair or maintenance needs, please contact us.

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