



# MOXA MGate 5135/5435 Series Modbus TCP Gateways Installation Guide

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**MOXA MGate 5135/5435 Series Modbus TCP Gateways**



## 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.
	Off	No connection has been established.

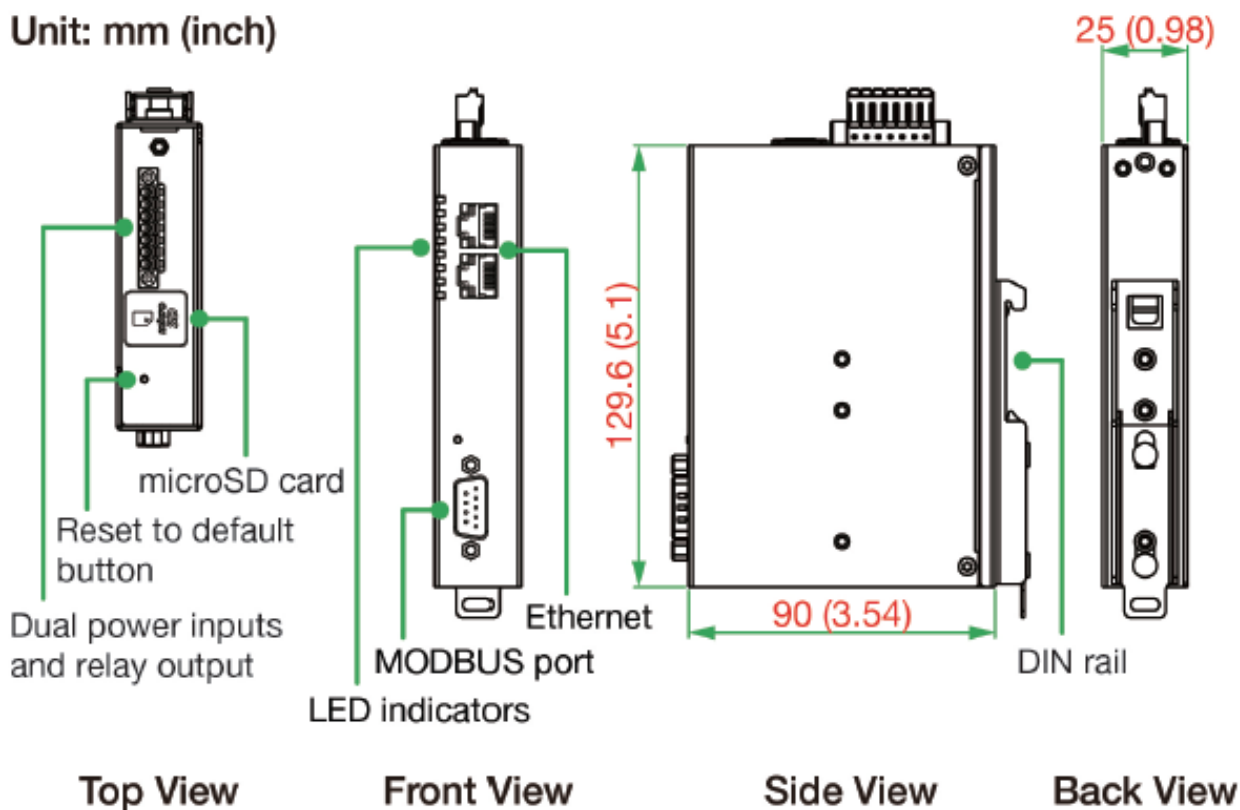
EtherNet/IP Adapter	Green	Steady: I/O data is being exchanged with all of the connections.
	Red	Steady: Rejects the connection due to incorrect configurations.
		Blinking (1 sec.): One or more connections timed out.
Modbus RTU/ASCII/TC P Client	Off	No communication with Modbus device.
	Green	Modbus communication in progress.
	Red	<p>Blinking (1 sec.):Communication error.</p> <ol style="list-style-type: none"> <li>1. The Modbus slave device returned an error (exception).</li> <li>2. Received a frame error (parity error, checksum error).</li> <li>3. Timeout (the slave device does not respond).</li> </ol>

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

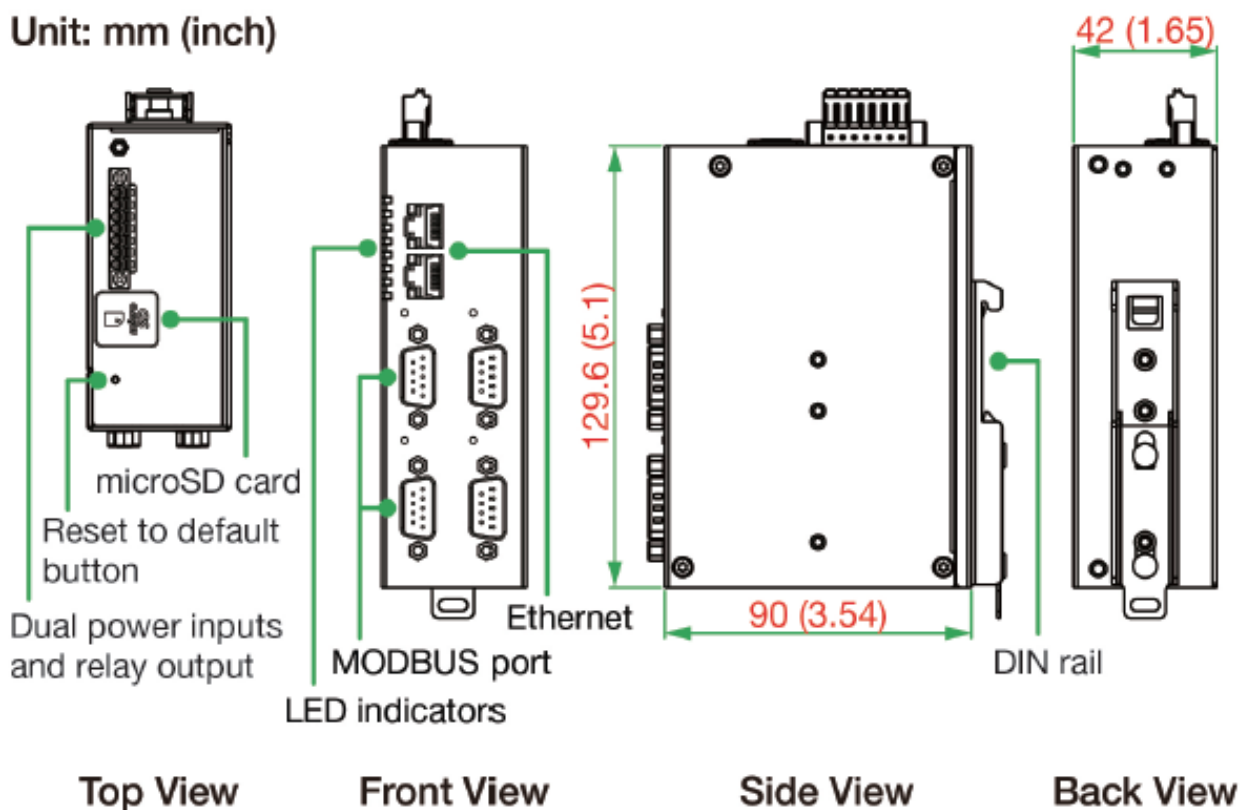
## MGate 5135

Unit: mm (inch)



## MGate 5435

Unit: mm (inch)



### **Reset Button**

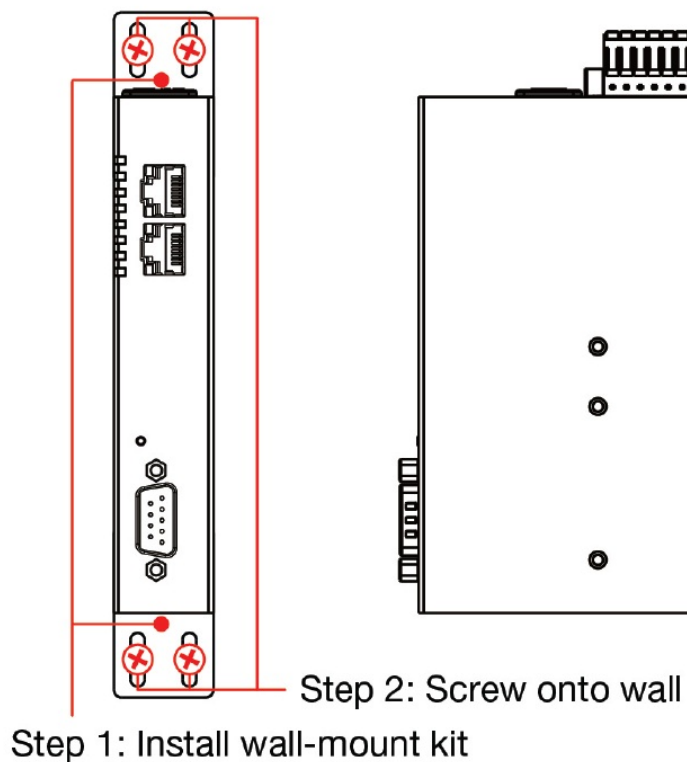
Restore the MGate to factory default settings by using a pointed object (such as a straightened paper clip) to hold the reset button down until the Ready LED stops blinking (approx. five seconds).

## Hardware Installation Procedure

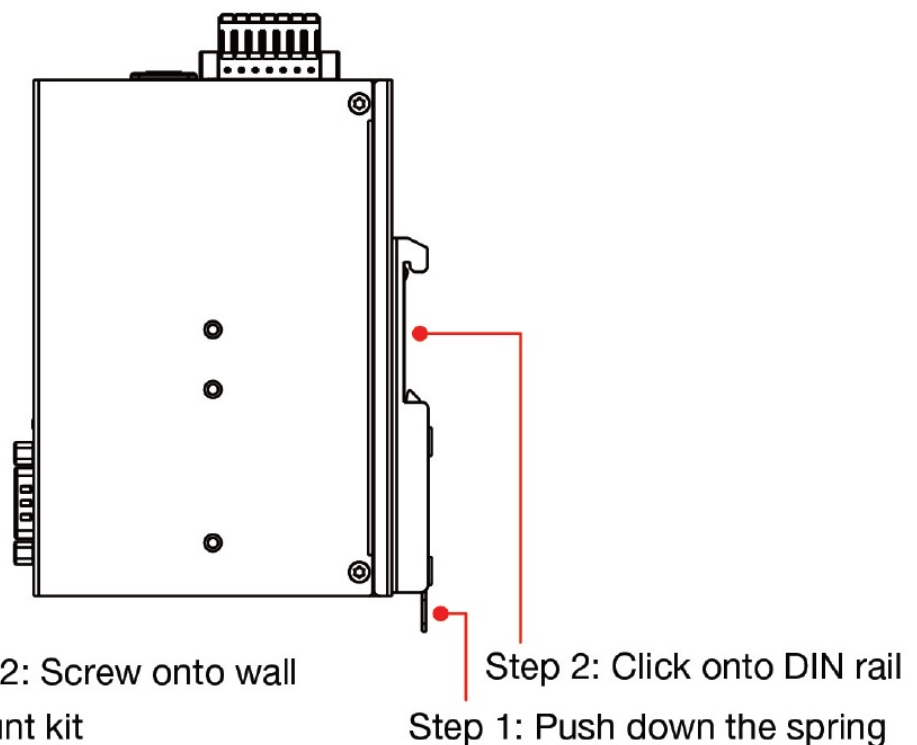
1. Connect the power adapter. Connect the 12 to 48 VDC power line or DIN-rail power supply to the terminal block of the MGate 5135/5435 device.
2. Use a Modbus serial cable to connect the MGate to a Modbus slave device.
3. Use an Ethernet cable to connect the MGate to the EtherNet/IP controller.
4. We 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

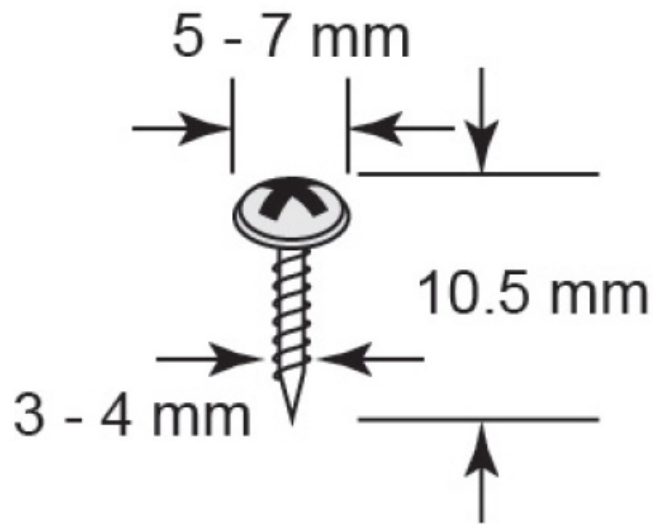


### DIN-Rail Installation



## 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

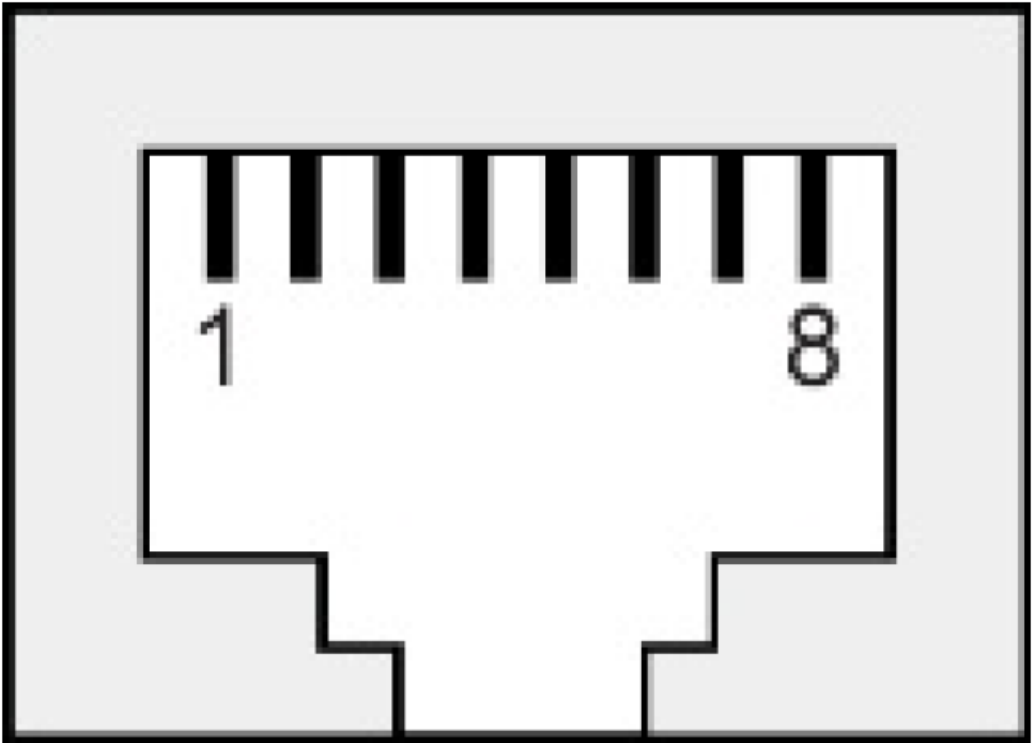
### Modbus Serial Port (Male DB9)

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	—	—	—

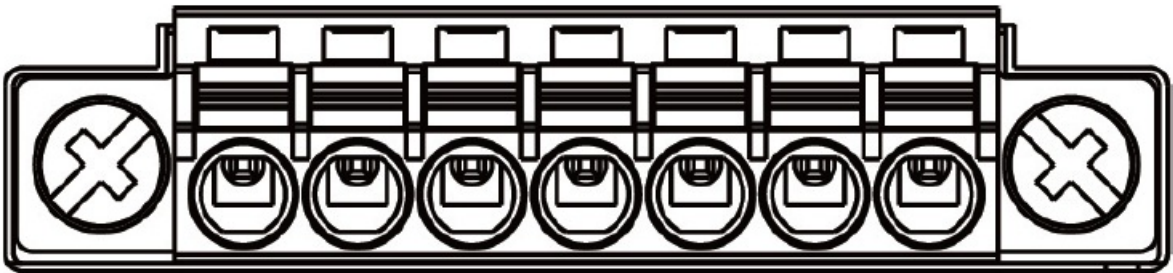
\*Signal ground Ethernet Port (RJ45)



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



Power Input and Relay Output Pinouts



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

Specifications

<b>Power Parameters</b>	
Power Input	12 to 48 VDC
Power Consumption	MGate 5135 Series: 455 mA max. MGate 5435 Series: 455 mA max.
<b>Relays</b>	
Contact Current Rating	Resistive load: 2 A @ 30 VDC
<b>Environmental Limits</b>	
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
<b>Physical Characteristics</b>	
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.
- 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.
- Clean the device with a soft cloth, dry or with water.
- 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. Moxa Inc. No. 1111, Heping Rd., Bade Dist., Taoyuan City 334004, Taiwan +886-03-2737575

Documents / Resources

	<p><a href="#">MOXA MGate 5135/5435 Series Modbus TCP Gateways</a> [pdf] Installation Guide</p> <p>MGate 5135 Series, MGate 5435 Series, Modbus TCP Gateways, MGate 5135 5435 Series Modbus TCP Gateways, MGate 5135 Series Modbus TCP Gateways, MGate 5435 Series Modbus TCP Gateways</p>
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References

- [M Moxa - Your Trusted Partner in Automation](#)
- [M Moxa - Support](#)