# **MGate 5134 Series**

# 1-port Modbus RTU/ASCII/TCP-to-PROFINET gateways



#### **Features and Benefits**

- Protocol conversion from Modbus to PROFINET
- Supports PROFINET IO device
- Supports Modbus RTU/ASCII/TCP Client (Master)
- · Flexible deployment with Ethernet cascading and dual subnet
- · Embedded traffic monitoring/diagnostic information for easy troubleshooting
- · Easy device configuration via a web-based console
- microSD card for configuration backup/duplication
- · Supports dual redundant DC power inputs and 1 relay output
- · Serial port with 2 kV isolation protection
- -40 to 75°C wide operating temperature models available

## Certifications



## Introduction

The MGate 5134 is an industrial Ethernet gateway for converting Modbus RTU/ASCII/TCP to PROFINET network communications. To integrate existing Modbus devices onto a PROFINET network, use the MGate 5134 as a Modbus client to collect data and exchange data with the PROFINET host. All models are protected by a rugged and compact metal housing, are DIN-rail mountable, and offer built-in serial isolation. The rugged design is suitable for industrial applications such as factory automation, power, oil and gas, water and wastewater, and other process automation industries.

### **Easy Configuration**

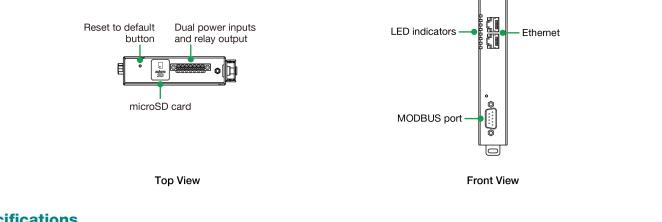
The MGate 5134 gateways are provided with a web console to make configuration easy without having to install an extra utility. In addition, HTTPS encryption of communication ensures higher network security. In most data-acquisition applications, configuration of devices with Modbus commands can be time-consuming and increase costs. The MGate 5134 gateways provide offline configuration via a CSV file to help complete the Modbus settings quickly. The gateways also come with a GSDML export function to enable export of these files so that they can be imported to PROFINET PLCs. The MGate gateways provide software-configurable pull high/low and termination resistor settings for RS-485 2-wire to reduce efforts by eliminating the need to open the chassis.

#### **Easy Troubleshooting**

The MGate 5134 gateways provide a variety of maintenance functions to reduce troubleshooting time and cost, including LED indicators, protocol diagnostics, traffic monitor, and tag view. These tools help you capture and check data to easily identify the root cause of issues, especially during the installation stage. The MGate gateways also come with status monitoring and fault protection functions. The status monitoring function notifies a PLC/DCS/SCADA system when a Modbus device gets disconnected or does not respond, in which case the process PLC/DCS gets the status of each end device and then issues alarms to notify operators. The fault protection function executes actions pre-defined by the user when a host gets disconnected to prevent the end devices from going offline for long periods of time..



# Appearance



## Specifications Ethernet Interface

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 PROFINET IO Device
Configuration Options	Web Console (HTTPS) Device Search Utility (DSU)
Management	ARP DHCP Client DNS HTTP HTTPS SMTP SNMP Trap SNMPv1/v2c/v3 TCP/IP UDP
MIB	RFC1213, RFC1317
Time Management	NTP Client
Security Functions	
Authentication	Local database
Encryption	HTTPS AES-128 AES-256 SHA-256
Security Protocols	SNMPv3 SNMPv2c Trap HTTPS (TLS 1.3)
Serial Interface	
No. of Ports	1
Connector	DB9 male
Serial Standards	RS-232/422/485



Baudrate	300 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
RS-485 Data Direction Control	Automatic Data Direction Control (ADDC)
Pull High/Low Resistor for RS-485	1 kilo-ohm, 150 kilo-ohms software configurable
Terminator for RS-485	120 ohms software configurable
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
Modbus RTU/ASCII	
Mode	Client
Functions Supported	1, 2, 3, 4, 5, 6, 15, 16, 23
Max. No. of Server Connections	31
Max. No. of Commands	128 per serial port
Modbus TCP	
Mode	Client
Functions Supported	1, 2, 3, 4, 5, 6, 15, 16, 23
Max. No. of Server Connections	32
Max. No. of Commands	128
Total Output Data Size	2048 bytes
Total Input Data Size	2048 bytes
PROFINET	
Mode	IO Device class B
Max. No. of Master Connections	2 IO Controllers (shared devices)



Input Data Size	1440 bytes per IO Controller (total: 2880 bytes)	
Output Data Size	1440 bytes per IO Controller (total: 2880 bytes)	
Memory		
microSD Slot	Up to 32 GB (SD 2.0 compatible)	
Power Parameters		
Input Voltage	12 to 48 VDC	
Input Current	455 mA (max)	
Power Connector	Spring-type Euroblock terminal	
Relays		
Contact Current Rating	Resistive load: 2 A @ 30 VDC	
Physical Characteristics		
Housing	Metal	
IP Rating	IP30	
Dimensions	25 x 90 x 129.6 mm (0.98 x 3.54 x 5.1 in)	
Weight	294 g (0.65 lb)	
Environmental Limits		
Operating Temperature	MGate 5134: -10 to 60°C (14 to 140°F) MGate 5134-T: -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		
Safety	EN 61010-2-201 UL 61010-2-201	
EMC	EN 61000-6-2/-6-4	
EMI	FCC Part 15B Class A	
EMS	IEC 61000-4-2 ESD: Contact: 8 kV; Air: 15 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; Signal: 2 kV IEC 61000-4-6 CS: 150 kHz to 80 MHz: 10 V/m; Signal: 10 V/m IEC 61000-4-8 PFMF	
Freefall	IEC 60068-2-31	
Shock	IEC 60068-2-27	
Vibration	IEC 60068-2-6 IEC 60068-2-64	
MTBF		
Time	1,240,821 hrs	
Standards	Telcordia SR332	



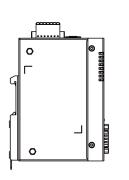
## Warranty

Warranty Period	5 years
Details	See www.moxa.com/warranty
Package Contents	
Device	1 x MGate 5134 Series gateway
Documentation	1 x quick installation guide 1 x warranty card

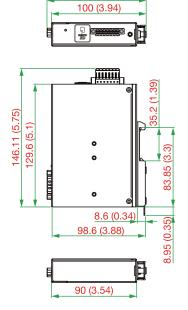
# **Dimensions**

### **DIN-rail Mounting**

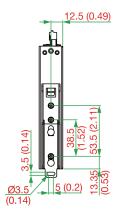
Unit: mm (inch)





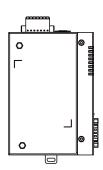


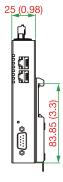
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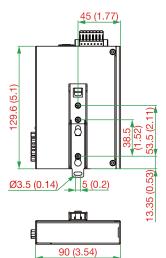
Side DIN-rail Mounting

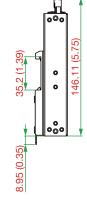
Unit: mm (inch)







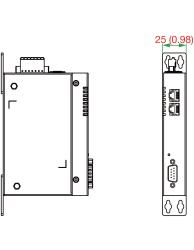




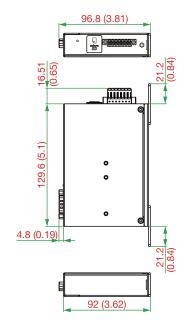


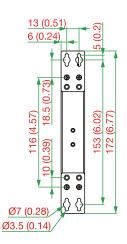
## Wall Mounting

Unit: mm (inch)



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## **Ordering Information**

Model Name	No. of Serial Ports	Operating Temperature
MGate 5134	1	-10 to 60°C
MGate 5134-T	1	-40 to 75°C

# **Accessories (sold separately)**

Connectors Mini DB9F-to-TB DB9 female to terminal block connector Wall-Mounting Kits WK-25 Wall-mounting kit, 2 plates, 4 screws, 25 x 43 x 2 mm © Moxa Inc. All rights reserved. Updated Jun 02, 2025.

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