

# Modbus Gateway

A smart gateway specializes in Modbus communication and seamless conversion between Serial and Ethernet interfaces.

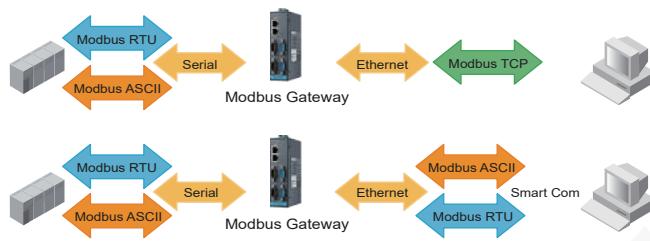


Struggling with managing multiple Modbus protocols, industrial devices, and the connectivity between, Serial and Ethernet ?

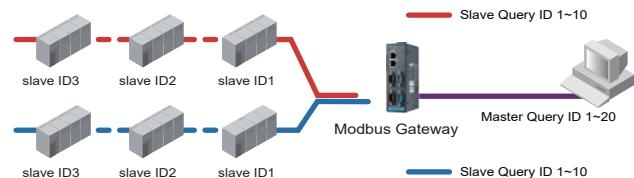
The **Modbus Gateway (MG)** is here to simplify your operations and unlock full connectivity potential.

## Why Choose MG

- Universal Protocol Support:** Supports Modbus TCP, RTU, and ASCII across Serial and Ethernet interfaces.
- Versatile Interface Compatibility:** Supports the most used industrial Interface: RS-232, RS-422, RS-485, and Ethernet.
- Smooth Integration:** Simplify the communication architecture, making the device management easier.
- Reliable Communication:** Ensure uninterrupted, seamless data exchange between diverse devices.
- Serial-to-Ethernet Conversion:** Effortlessly convert existing serial connections to Ethernet, streamlining communication management, reducing cabling complexity, and cutting wiring costs.
- Modbus ID Routing:** Integrate existing field devices even when device IDs cannot be changed or when duplicate IDs exist.



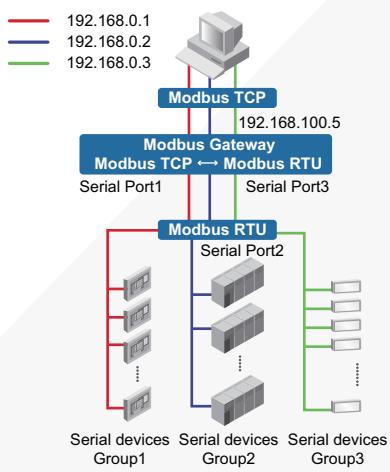
Conversion between Modbus protocols and Serial/Ethernet interfaces



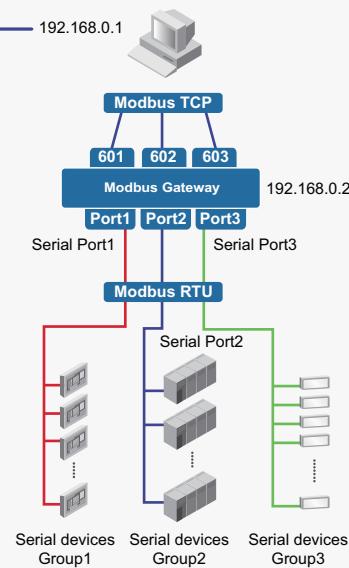
Modbus ID routing

## Application structure

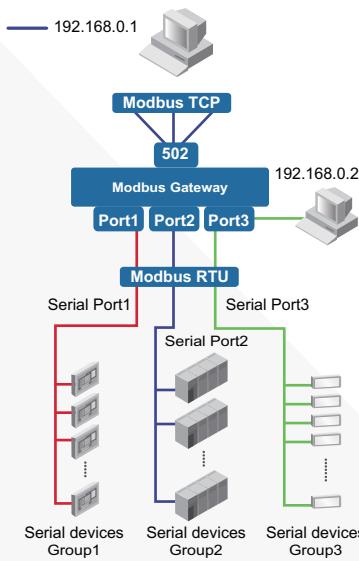
- Select different IP addresses for each serial device.



- Using same IP address but different I/O port.



- Using Same IP address and same I/O port.



## Specifications

	MG514	MG516
Model	514	516
Network Communication		
Specification	IEEE 802.3, IEEE 802.3u	IEEE 802.3, IEEE 802.3u, IEEE 802.3ab
Transmission Speed	10/100 Mbps/8-pin RJ45	10/100/1000 Mbps, auto MDI/MDIX
Number of Ports	2 (8-pin RJ45)	
Communication Protocols	Modbus TCP, Modbus RTU, Modbus ASCII	
Security Features	Built-in 2.25k VDC magnetic isolation	Built-in 1.5k VDC magnetic isolation
Serial Communication		
Supported Interfaces	RS-232/422/485-2w/485-4w, software selectable	RS-232/422/485, software selectable
Number of Ports	4	16
Connector Type	DB9 Male	
Data Bits	5, 6, 7, 8	
Stop Bits	1, 1.5, 2	
Parity Check	None, Odd, Even, Space, Mark	
Flow Control	XON/XOFF, RTS/CTS	XON/XOFF, RTS/CTS, DTR/DSR
Baud Rate	50 bps~921.6 kbps, any baud rate setting	50 bps ~ 921.6 kbps, any baud rate setting 16 ports up to 230.4 kbps simultaneously
Signal Type	RS-232: TxD, RxD, CTS, RTS, DTR, DSR, DCD, GND, RI RS-422: TxD+, TxD-, RxD+, RxD-, GND RS-485: Data+, Data-, GND	
Software		
Operating System Support	32-bit/64-bit Windows XP/Vista/7/8/10, Mac OSX, IOS, Android	Windows XP/7/8.1/10, Windows Server 2003/2008/2012/2016/2019, and Linux
Setup Method	Web Browser	
Hardware		
Dimensions (mm)	42 x 140 x 95	438 x 43.6 x 259.2
Material	Metal with solid mounting hardware	SECC chassis
Mounting Method	DIN-rail, Wall	Rack
Net Weight (kg)	0.537	3.65
General		
LED Indicators	System: Power, System Status/LAN: Speed, Link/Active Serial: Tx, Rx	
Power Requirements		
Power Input	12 ~ 48 VDC, redundant dual inputs	VHDC 120 ~ 270 VDC, Terminal Block
Connector	Terminal Block	
Power Consumption	4.1 W	5.6 W
Environment		
Operating Temperature	-10 ~ 60 °C (14 ~ 140 °F)	
Storage Temperature	-40 ~ 85 °C (-40 ~ 185 °F)	-20 ~ 80 °C (-4 ~ 176 °F)
Humidity	10 ~ 95% RH	
Certification		
EMC Testing	CE, FCC Part 15 Subpart B (Class A)	

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