MB5202 Series

Compact 2-Port Industrial Modbus TCP/RTU/ASCII Gateway, Field-Mount

FEATURE HIGHLIGHTS

Flexible Connectivity

- Software-selectable RS-232/422/485
- RJ45 Fast Ethernet port or 100Mbps SFP Slot
- Modbus TCP/RTU/ASCII
- Supports TCP server/client, UDP

Comprehensive Management

- Configuration via Web, Telnet, and Windows Utility
- Integrated SNMPv1/v2c/v3, HTTPS, Telnet and SSH
- Upgradable firmware via a remote-PC
- Virtual COM and Tunneling modes

Reliable & Redundant Design

- Rugged metal casing; industrial EMC protection
- Redundant dual power inputs for non-stop operation

High Quality Guaranteed

- Made in Taiwan with 5 years warranty

PRODUCT DESCRIPTION

Diverse Hardware Infrastructure

The MB5202 Modbus Gateway supports the four most commonly used communication standards, RS-232, RS-422, RS-485, and Ethernet. It comes with a user-friendly configuration utility to allow quick hardware interface selection, so you can easily connect to your existing communication infrastructure. And with industrial EMC protection plus a wide operation temperature range, MB5202 is ready for every mission.

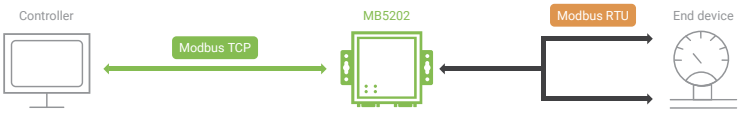
Switching between Modbus Protocols

MB5202 supports the Modbus protocols and is capable of conversion between Modbus TCP, Modbus RTU, and Modbus ASCII for all supported hardware interfaces.

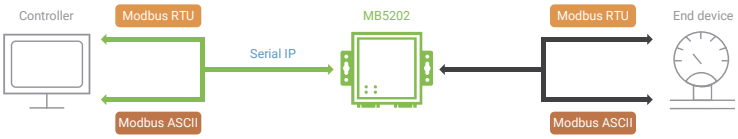
Modbus ID Routing

Besides various types of hardware communication interfaces and Modbus protocol conversion, MB5202 also supports Modbus ID routing. Therefore, it can integrate your existing and complex Modbus hardware configuration into a simple network for easy management.

Ethernet-Serial conversion



Ethernet(VCOM)-Serial conversion



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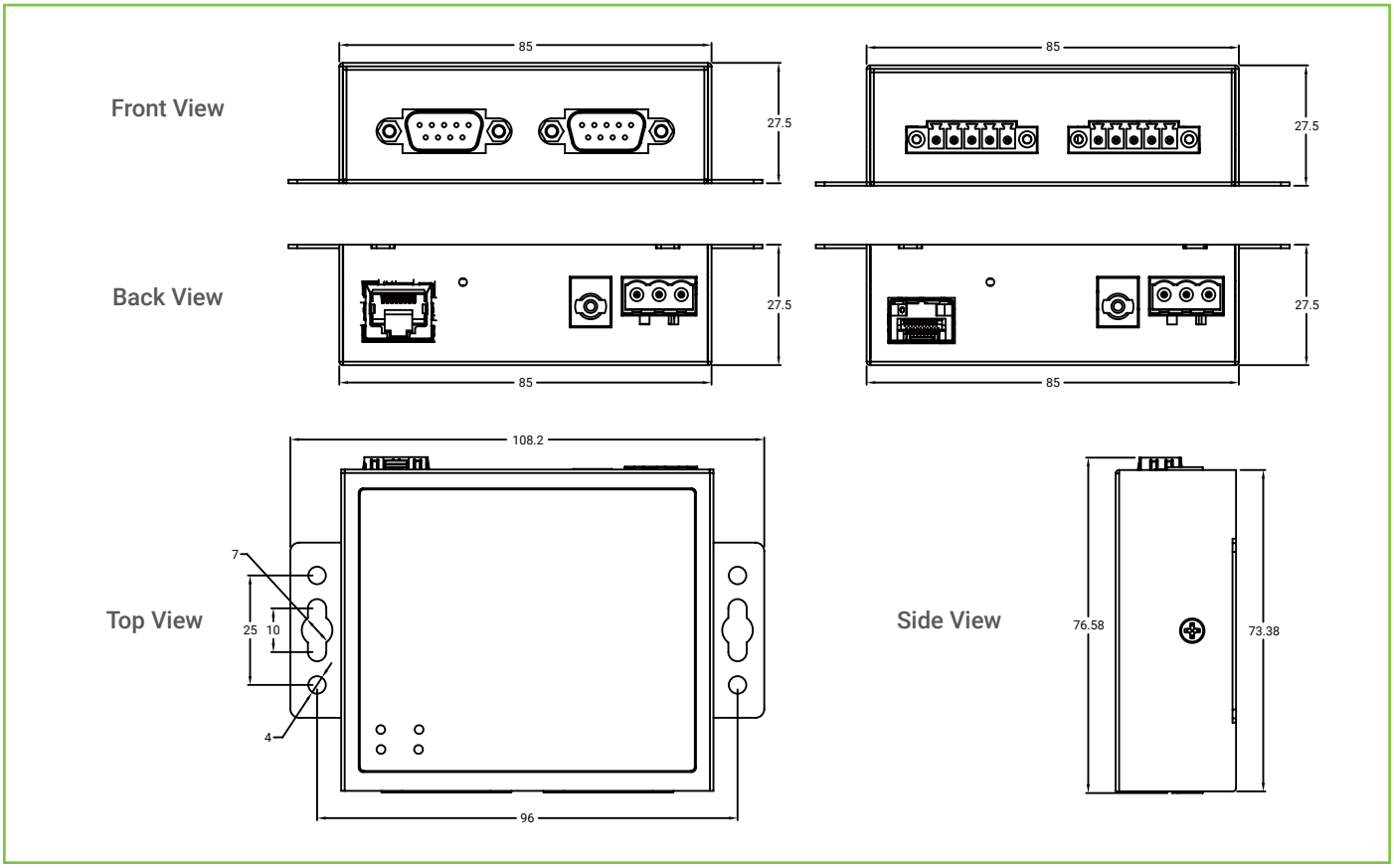
DIMENSIONS & LAYOUT



SPECIFICATIONS

Network Interface	
Ethernet Port	1x 10/100BASE-T(X) RJ-45 or 1x100BASE-FX SFP Slot
Compliance	IEEE 802.3 for 10BASE-T IEEE 802.3u for 100BASE-T(X) and 100BASE-FX
Serial Interface	
Connector	9-Pin D-Sub9 connector(Male, -DB version) or 5-Pin Terminal block (-TB version)
Ports	2
Mode	1x RS-232(Full-function DB9) / RS-422 / 2-wire RS-485, software selectable 1x RS-232 / RS-422 / 2-wire RS-485, software selectable
Baud Rate	1200 to 230,400 bps
Parity	None, Odd, Even, Space, Mark
Data Bits	7, 8
Stop Bits	1, 2
Flow Control	None, Xon/Xoff, RTS/CTS (RS-232 only)
Power Characteristics	
Connector	3-Pin 5.08mm Lockable Terminal Block and DC Jack for redundancy
Input Voltage	3-Pin 5.08mm Lockable Terminal Block: 9-30VDC; DC Jack 5VDC
Power Consumption	<9W
Power Redundancy	Yes
Reverse Polarity Protection	Yes
Mechanicals	
Dimensions(W x D x H)	75 mm x 85 mm x 28 mm (without wall-mount part) MB5202-TB/MB5202-Sis: 74.5 x 108.2 x27.5mm (with wall-mount part) MB5202-DB: 80.3 x 108.2 x27.5mm (with wall-mount part and DB9 connector) MB5202-SFP-TB: 76.6 x 108.2 x 27.5mm (with wall-mount and SFP) MB5202-SFP-DB: 81.4 x 108.2 x 27.5mm (with wall-mount SFP and DB9)
Installation	Wall-Mount or DIN-Rail (optional kit)
Reset Button	Yes
Weight	200g
Environmental Limits	
Operating Temperature	-20°C to +70°C (-4°F to +58°F)
Storage Temperature	-40°C to +85°C (-40°F to +185°F)
Ambient Relative Humidity	5 to 95% RH (non-condensing)
Software	
Protocols	TCP, IPv4, UDP, DHCP Client, HTTP, HTTPS, Telnet, ARP, SNMPv1/v2cv3
Configuration	Atop Management Utility, Web UI, Telnet, CLI
VirtualCOM	Windows/Linux redirection software
Modbus	TCP/RTU/ASCII
TCP Client	Single destination or VirtualCOM
TCP Server	4 Connections; VirtualCOM or reverse Telnet
UDP	Up to 4 Ranges IP

REGULATORY APPROVALS

Approvals				
Safety	EN62368-1			
EMC	FCC Part 15, Subpart B, Class A EN 55032, EN61000-6-4 EN 61000-3-2 EN 61000-3-3 EN 55024, EN61000-6-2			
Test	**Item**		**Value**	**Level**
IEC 61000-4-2	ESD	Contact Discharge Air Discharge	±4KV ±8KV	2 3
IEC 61000-4-3	RS	80-1000MHz	10(V/m)	3
IEC 61000-4-4	EFT	AC Power Port DC Power Port Signal Port	±2.0KV ±2.0KV ±1.0KV	3 3 3
IEC 61000-4-5	Surge	AC Power Port AC Power Port DC Power Port DC Power Port Signal Port	Line-to-Line±1.0KV Line-to Earth±2.0KV Line-to Line ±0.5KV Line-to Line ±0.5KV Line-to-Earth±1.0KV	3 3 2 1 2
IEC 61000-4-6	CS	0.15-80MHz	10 Vrms	3
IEC 61000-4-8	PFMF	Enclosure	30 A/m	3
IEC 61000-4-11	DIP	AC Power Port		-
Shock	MIL-STD-810F Method 516.5			
Drop	MIL-STD-810F Method 516.5			
Vibration	MIL-STD-810F Method 514.5 C-1 & C-2			
RoHS	Yes			
MTBF	TBD			
Warranty	5 years			

ORDERING INFORMATION

Ordering Information		
Model Name	**Part Number**	**Description**
MB5202-DB	1P1MB520200001G	2-Port Entry-Level Modbus Gateway, RS-232/422/485, DB9(M)
MB5202-TB	1P1MB520200002G	2-Port Entry-Level Modbus Gateway, RS-232/422/485, Terminal block
MB5202-SiS	1P1MB520200003G	2-Port Entry-Level Modbus Gateway, RS-232/422/485, 2kV Isolation, Terminal block
MB5202-SFP-DB	1P1MB520200004G	2-Port Entry-Level Modbus Gateway, RS-232/422/485, DB9(M)
MB5202-SFP-TB	1P1MB520200005G	2-Port Entry-Level Modbus Gateway, RS-232/422/485, Terminal block

Optional Accessories		
Model Name	**Part Number**	**Description**
UN315-1212 (US-Y)	50500151120003G	Y-Type power adapter, 100-240VAC input, 1.25A @12VDC output, US plug
UNE315-1212 (EU-Y)	50500151120013G	Y-Type power adapter, 100~240VAC input, 1.25A @12VDC output, EU plug
2AAU005B-EU	50500051500014G	DC jack (5.0/2.1/9.5 mm) with Lock power adapter, 100-240VAC input, 1.0A @ 5 VDC output, EU plug, LV VI
2AAU005B-US	50500051500004G	DC jack (5.0/2.1/9.5 mm) with Lock power adapter, 100-240VAC input, 1.0A @ 5 VDC output, US plug, LV VI
ADP-DB9(F)-TB5	59906231G	Female DB9 to Female 3.81mm TB5 Converter
ADP-DB9(M)-DB9(F)	59901411G	SE_MB52XX DB9 Pin assignment to SE_MB50XX DB9 Pin assignment
DK-25	30200000000022G	Plastic DIN Rail Kit
AXFD-1314-0523	522AXFD1314001G	SFP Transceiver: 155Mbps, Multi-mode, 1310nm, 2km, -40 to +85°C, DDMI
AXFD-1314-0553	522AXFD1314011G	SFP Transceiver: 155Mbps, Single-mode, 1310nm, 30km, -40 to +85°C, DDMI