



## Modbus 1-port Gateway series

■ ■ MB5001C / MB5001C-Sis

**RoHS compliant**

### Technology

- Rugged metal housing with DIN-Rail / Wall-Mount
- Ease-of-use in Modbus protocol conversion include RTU, ASCII and TCP
- 15 KV ESD protection for serial signals(MB5001C-Sis only)
- 10/100Mbps Fast Ethernet Full Duplex Auto Negotiation
- Monitor, Manage and Control Industrial Field Devices Remotely
- Configurable via Built-In Web Server Serial Console, or Telnet
- Upgradeable firmware from remote-PC via Ethernet
- Modbus compact design

### Reliability

- Removable 3-pin Terminal Block(DC 9-30V) + DC Jack (DC 5V), two types of power input for MB5001C
- Removable 3-pin Terminal Block power input(DC 9-30V) for MB5001C-Sis
- Operating temperature ranges from 0°C~60°C
- Rugged high-strength housing
- DIN-Rail or wall mounting ability

Modbus is an industry adopted communication protocol that is based on RTU, ASCII, and TCP protocols for various of applications; these three protocols are commonly used by a lot of equipments in the industry, such as DCS, PLC, HMI, power meters, various sensors and measuring instruments. MB5001C series supports the standard Modbus protocol and is capable of converting the Modbus protocols between Modbus TCP (Master) to Modbus RTU/ASCII (Slave). It's a simple and cost effective Modbus Gateway.

### Diverse Hardware Infrastructure

MB5001C series which supports the three most commonly used serial communication interfaces, RS-232, RS-422 and RS-485. It also provides a web-based configuration UI, so the users can select the serial interface easily.

### MB5001C Series Setup



## Specifications

### Ethernet

Compliance	IEEE802.3
Port	1-port
Transmission Rate	10/100Mbps Auto-detection
Connector	RJ-45
Auto MDI/MDI-X	Yes

### Link Mode

ModBus TCP	Yes
ModBus ASC	Yes
ModBus RTU	Yes

### Serial

Interface	RS-232/RS-422/RS-485 Software selectable(MB5001C) RS-422/RS-485 Isolation Software selectable(MB5001C-Sis)
Ports	1-port
Baud Rate	1200bps~230Kbps
Parity	None, Odd, Even, Mark, Space
Data Bits	7, 8
Stop Bits	1, 2
Flow Control	None, Software: Xon/Xoff, Hardware: RTS/CTS
Connector	9-pin D-Sub(MB5001C) 5-pin 3.81mm Terminal block(MB5001C-Sis)
Protection	15KV ESD

### Power

Input	DC 5V(DC-Jack) and 9-30V(TB3) (MB5001C) DC 9-30V(TB3) (MB5001C-Sis)
Consumption	Max. 2.7 W (MB5001C) / Max. 3.6 W (MB5001C-Sis)

### Environment

Operating	0°C ~ 60°C ( 32° ~ 140°F )
Storage	-20° ~ 70°C ( -4°~ 158°F ), 5 ~ 95%RH

### Dimension

W x H x D	65mm x 28mm x 78mm (MB5001C) 85mm x 28mm x 74mm (MB5001C-Sis)
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### Software

Configuration	Web Page / Telnet / Serial console / Windows utility
Utilities	Atop Device Management Utility, VirtualCOM
Support Protocol	ModBus TCP/ASCII/RTU,SNMP,HTTP

## Optional Accessories

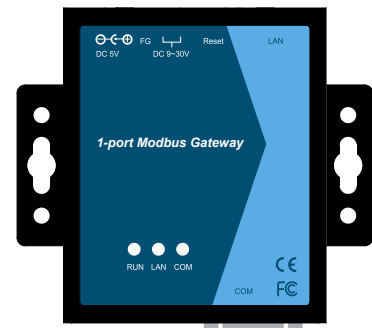
Power Adapter	UN315-1212 (US-Y) : P/N:50500151120003G Y-Type power adapter, 100~240VAC input, 1.25A @ 12VDC output, US plug, LV6
	UNE315-1212 (EU-Y) : P/N:50500151120013G Y-Type power adapter, 100~240VAC input, 1.25A @ 12VDC output, EU plug, LV6
	UV305-0510(US-DC) : P/N:50500051500003G DC jack (3.5/1.35/7.5 mm) power adapter, 100~240VAC input, 1.0A @ 5 VDC output, US plug, LV6
	UVE305-0510(EU-DC) : P/N:50500051500013G DC jack (3.5/1.35/7.5 mm) power adapter, 100~240VAC input, 1.0A @ 5 VDC output, EU plug, LV6
	UVE305-0510(UK-DC) : P/N:50500051500023G DC jack (3.5/1.35/7.5 mm) power adapter, 100~240VAC input, 1.0A @ 5 VDC output, UK plug, LV6

## Approvals

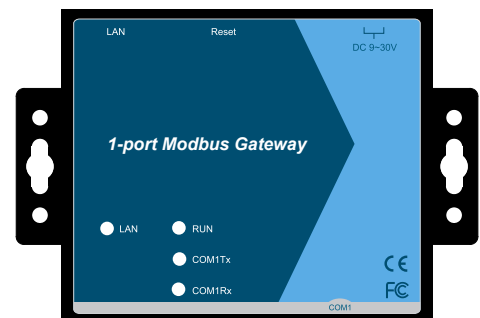
FCC	FCC Part 15, Subpart B, Class A
	CISPR 22
	ICES-003
	ANSI C63.4
CE	EN 55022
	EN 61000-3-2
	EN 61000-3-3
	EN 55024
	IEC 61000-4-2 (ESD)
	IEC 61000-4-3 (RS)
	IEC 61000-4-4 (EFT)
	IEC 61000-4-5 (Surge)
	IEC 61000-4-6 (CS)
	IEC 61000-4-8 (PFMP)
IEC 61000-4-11 (DIP)	
Shock	IEC 60068-2-27
Free Fall	IEC 60068-2-32
Vibration	IEC 60068-2-6
RoHS	Lead(Pb) Free
MTBF	MB5001C: 485853hrs / 55.46 years (25°C)
	MB5001C-Sis: TBD
Warranty	5 years

## Ordering Information

1P1MB5001C0001G	1-LAN port software selectable
MB5001C	RS-232/422/485(DB9) ModBus Gateway
1P1MB5001C0002G	1-LAN port software selectable
MB5001C-Sis	RS-422/485(TB5-ISO) ModBus Gateway



65mm x 28mm x 78mm (MB5001C)



85mm x 28mm x 74mm (MB5001C-Sis)

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