

Modbus Gateways



■ ■ **8/16-port Modbus Gateway**
MB5408A / MB5408A2 / MB5416A / MB5416A2



■ ■ **4-port Modbus Gateway**
MB5404D-X / MB5404D-Sis-X

Modbus is an industry adopted communication protocol based on RTU, ASCII, and TCP protocols for various applications; these three protocols are commonly used by various equipments in the industry, such as DCS, PLC, HMI, power meters, various sensor and measuring instruments.

The Modbus Gateway is capable of implementing the Modbus protocol conversion between different hardware interfaces, thereby streamlining the process of management and application.

Diverse Hardware Infrastructure

Modbus Gateway supports the four most commonly used communication standards, RS-232/485/422, and Ethernet. The ease-of-use configuration utility provided with Modbus Gateway can quickly select the hardware interface, and easily switch to the existing communication infrastructure.

Switching between Modbus Protocols

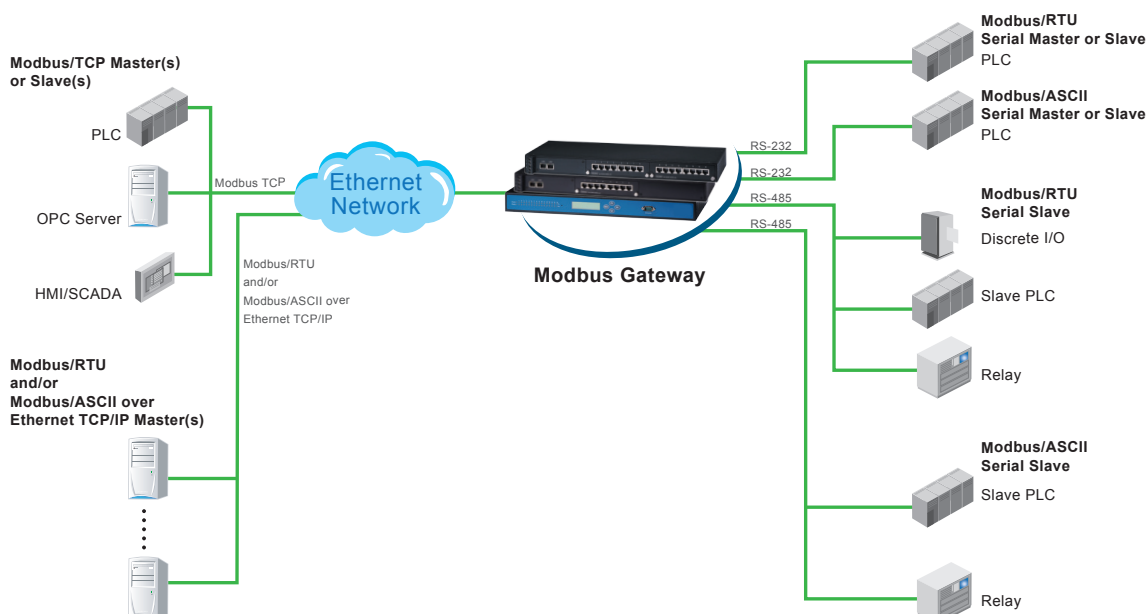
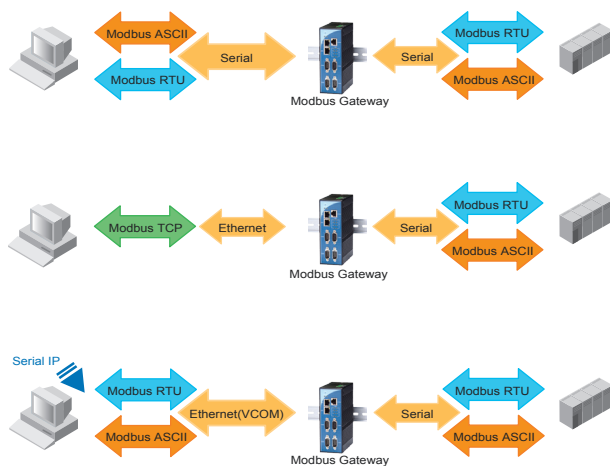
Modbus Gateway supports the standard Modbus protocol and is capable of converting any Modbus protocols between Modbus TCP, Modbus RTU, and Modbus ASCII for all supported hardware interfaces.

Modbus ID Routing

Modbus Gateway is not only capable of hardware and protocol conversions, and when a Modbus ID conflict occurs, the Modbus Gateway also supports ID routing to the existing Modbus hardware.




Simple Integration for Complex Configurations

Modbus Gateway supports various types of hardware communication interfaces, Modbus protocol conversion, and Modbus ID routing. Therefore the Modbus Gateway can integrate your existing and complex Modbus hardware configuration into a simple network that can be easily managed.



Note:
 A total of up to 254 slave devices can be supported.

Specifications

Model Name	MB5404D-X / MB5404D-Sis-X	MB5408A / MB5408A2	MB5416A / MB5416A2
			
Ethernet (RJ-45 Connector)	Dual 10/100M Fast-Ethernet Auto-detection		
Network Protocol	ICMP, Modbus TCP/ASCII/RTU, HTTP, ARP		
Watch Dog Timer	60-second software auto-reset(Customization) ; 1 second real-time clock built-in		
Serial Port	4-Port 9-Pin D-Sub connectors(MB5404D-X) 5-Pin lockable Terminal Blocks(MB5404D-Sis-X)	8-Port RJ-45 connectors	16-Port RJ-45 connectors
Serial Interface	RS-232/422/485 software selectable	RS-232 or RS-422/485	
Date Rate	1200 bps ~ 921 Kbps, Support user define baud rate	50 ~ 921,600bps	
Data Bits	5, 6, 7, 8		
Parity Check	None, Even, Odd, Space, Mark		
Stop Bits	1, 2		
Flow Control	None, XON/XOFF, RTS/CTS		
Power Input	DC 9 ~ 48V, 7-pin TB	AC 100 ~ 240V, AC Model / 24 ~ 48 VDC (DC Model)	
Operation Temperature	-40°C ~ 80°C	0°C ~ 60°C	
Storage Temperature	-40°C ~ 85°C		
Humidity	5%~95% non-condensing		
Mounting	DIN-Rail	Rack mount (1U)	
Dimension (W x H x D) mm	53.4 x 145.7 x 119.9	436 x 43.5 x 200	
Configuration	Web Browser, Windows-based Utility		
Weight	900g	3,000g	3,200g
MTBF	188251 hours / 21.5 years	TBD	TBD

Optional Accessories

Category	Model No.	Specification	MB5404D-X MB5404D-Sis-X	MB5408A MB5408A2	MB5416A MB5416A2
Power adapter	US315-12(US-Y) P/N:50500151120009G	Y-Type (5.08 mm) power adaptor, 100-240VAC input, 1.25A @ 12VDC output, US plug	✓		
	USE315-12(EU-Y) P/N:50500151120019G	Y-Type (5.08 mm) power adaptor, 100-240VAC input, 1.25A @ 12VDC output, EU plug	✓		
	UV315-12(US-LDC) P/N:50500151120108G	Lockable DC jack (5.5/1.35/9.5 mm) power adaptor, 100-240VAC input, 1.25 A @ 12 VDC output, US plug	✓		
	UVE315-12(EU-LDC) P/N:50500151120118G	Lockable DC jack (5.5/1.35/9.5 mm) power adaptor, 100-240VAC input, 1.25 A @ 12 VDC output, EU plug	✓		
Terminal Block	2ESDPM-07P P/N:50707871G	7-pin 5.08mm Screw Terminal Block with 180° Angle	✓		
	2ESDVM-07P P/N:50707741G	7-pin 5.08mm Screw Terminal Block with 90° Angle	✓		
Mounting Kit	WMK-B-459 P/N:202EH731000003G	Black metal Wall Mount Kit	✓		
	CDK-S-459 P/N:201EH731000005G	Conductive silver metal DIN-Rail Kit	✓		
	RMK-B-718 P/N:202SE641600005G	Rack Mount Kit		✓	✓
Console Cable	CBL-RJ45(8P)-DB9(M)-90 P/N:50891781G	8-pin RJ45-DB9 Male Cable, 90cm		✓	✓
	CBL-RJ45(8P)-DB9(F)-90-C P/N:50891971G	8-pin RJ45-DB9 Female Cross Over Cable, 90cm	✓ (MB5404D-X)		
Adaptor	ADP-DB9(F)-TB5 P/N:59906231G	DB9(Female) to TB5(3.81mm) Adaptor	✓		
Grounding Cable	GDC-120 P/N:59906861G	120mm copper woven grounding cable	✓		
DB9 to TB5 Converter	P/N:59906231G	Female DB9 to Female 3.81mm TB5 Converter	✓ (MB5404D-Sis-X)		

Ordering Information		
Model Name	P/N	Description
MB5416A Isolation	1P1MB5416A0001G	16-Port Industrial Modbus Gateway, RS-232, AC Inlet, US Plug, Rack Mount
MB5416A2	1P1MB5416A2001G	
MB5416A-DC Isolation	1P1MB5416A0002G	16-Port Industrial Modbus Gateway, RS-232, DC TB3, Rack Mount
MB5416A2-DC	1P1MB5416A2002G	
MB5416A-S5 Isolation	1P1MB5416A0003G	16-Port Industrial Modbus Gateway, RS-422/485, AC Inlet, US Plug, Rack Mount
MB5416A2-S5	1P1MB5416A2003G	
MB5416A-S5-DC Isolation	1P1MB5416A0004G	16-Port Industrial Modbus Gateway, RS-422/485, DC TB3, Rack Mount
MB5416A2-S5-DC	1P1MB5416A2004G	
MB5416A-EU Isolation	1P1MB5416A0011G	16-Port Industrial Modbus Gateway, RS-232, AC Inlet, EU Plug, Rack Mount
MB5416A2-EU	1P1MB5416A2011G	
MB5416A-S5-EU Isolation	1P1MB5416A0013G	16-Port Industrial Modbus Gateway, RS-422/485, AC Inlet, EU Plug, Rack Mount
MB5416A2-S5-EU	1P1MB5416A2013G	
MB5408A Isolation	1P1MB5408A0001G	8-Port Industrial Modbus Gateway, RS-232, AC Inlet, US Plug, Rack Mount
MB5408A2	1P1MB5408A2001G	
MB5408A-DC Isolation	1P1MB5408A0002G	8-Port Industrial Modbus Gateway, RS-232, DC TB3, Rack Mount
MB5408A2-DC	1P1MB5408A2002G	
MB5408A-S5 Isolation	1P1MB5408A0003G	8-Port Industrial Modbus Gateway, RS-422/485, AC Inlet, US Plug, Rack Mount
MB5408A2-S5	1P1MB5408A2003G	
MB5408A-S5-DC Isolation	1P1MB5408A0004G	8-Port Industrial Modbus Gateway, RS-422/485, DC TB3, Rack Mount
MB5408A2-S5-DC	1P1MB5408A2004G	
MB5408A-EU Isolation	1P1MB5408A0011G	8-Port Industrial Modbus Gateway, RS-232, AC Inlet, EU Plug, Rack Mount
MB5408A2-EU	1P1MB5408A2011G	
MB5408A-S5-EU Isolation	1P1MB5408A0013G	8-Port Industrial Modbus Gateway, RS-422/485, AC Inlet, EU Plug, Rack Mount
MB5408A2-S5-EU	1P1MB5408A2013G	
MB5404D-Sis-X Isolation	1P1MB5404DX001G	4-Port Serial-to-Ethernet Modbus Gateway, TB5
MB5404D-X	1P1MB5404DX002G	4-Port Serial-to-Ethernet Modbus Gateway, DB9(M)

Atop Technologies, Inc.

TEL : +886-3-5508137

FAX : +886-3-5508131

sales@atop.com.tw

http : //www.atop.com.tw

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