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MB5908/ MB5916 Series

8 or 16-Port Rack-Mount Industrial Secure Modbus TCP/RTU/ASCII Gateway



*: RS-232/RS-485-RS-422 function is available on non-isolated versions. Isolated versions support RS-485 and RS-422 only

PRODUCT DESCRIPTION

Diverse Hardware Infrastructure

Modbus Gateway supports the four most commonly used communication standards, RS-232/485/422, and Ethernet. The ease-ofuse configuration utility provided with Modbus Gateway can quickly select the hardware interface, and easily switch to the existing communication infrastructure. You could set it up via Web Browser, Serial Console, Telnet Console, Windows Utility or through the LCM display in front of the device. Industrial EMC protection makes MB5908/16 ready for every mission.

Advanced embedded security

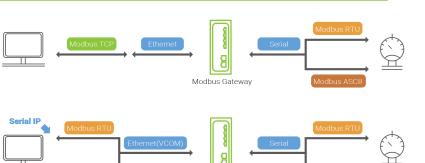
MB5908/16 embeds IPsec VPN Encryption, that allows you to tunnel your data securely throught the internet and prevent unauthorized control of your Serial Devices by malicious people.

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. All of this, in bidirectional mode: Ethernet and Serial ends can selected to be either master or slave

Modbus ID Routing

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.



Modbus Gateway

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SPECIFICATIONS

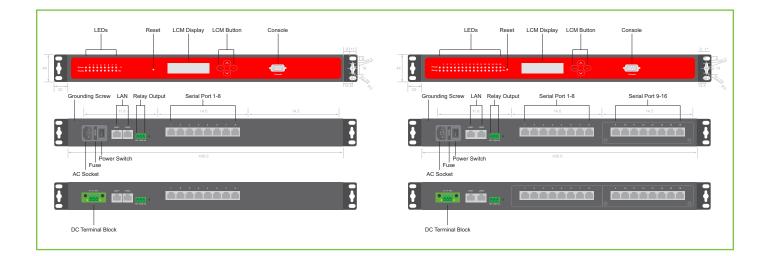
Technical Specifications		
Model Name	MB5908 (8-port) / MB5916 (16-port)	
Network interface		
Speed	IEEE 802.3 10BaseT IEEE 802.3u 100BaseT(X)	
LAN Mode	Dual Subnets or Network Redundancy	
Connector ports	2x 10/100BASE-T(X) RJ-45	
Serial Interface		
Connector	RJ45 RS-232/422/485 software selectable (-N models) or RJ45 Isolated RS-422/485 software selectable (-SiS models)	
Ports	8 (MB5908) or 16 (MB5916)	
Baud Rate	1,200 ~ 921,600 bps software selectable	
Data Bits	5, 6, 7, 8 software selectable	
Stop Bits	1, 2 software selectable	
Parity	None, Odd, Even, Space, Mark	
Flow Control	None, Xon/Xoff, RTS/CTS (RS-232 only)	
Isolation	2.5 kV (SiS versions only)	
Power		
Input Voltage Input Current Power Consumption	DC version: 24 - 48VDC; US-EU version: 100~240 VAC (EU or US Plug) DC version: 0.54 A @24VDC; US-EU version: 0.21A@100VAC Approximately 21 W (Max)	
Connector	DC version: 5.08mm 3-pin Lockable Terminal Block EU-US version: IEC 60320-1 C14 AC Power Inlet	
Power Redundancy	No	
Reverse Polarity Protection	Yes (DC version only)	
Relay Output	Yes (1)	
Physical Characteristics		
Housing Dimension (W x H x D) Weight Installation Reset Button	IP30 SPCC housing 436mm x 43.5mm x 200mm 3,000g (8-port version); 3,200g (16-port version) 19" Rack-Mount (Kit included) Yes	
Environmental Limits		
Operating Temperature Storage Temperature Ambient Relative Humidity	-20°C~70°C (-4°F~158°F) -40°C~85°C (-40°F~185°F) 5%~95% (Non-condensing)	
Sofware		
Protocols	IPv4, ICMP, TCP, UDP, DHCP Client, SNMPv1,v2c,v3, HTTP, HTTPS, Telnet, RFC2217, Security through IPsec host-to-host or host-to-side VPN with u 37.9Mbps VPN throughput	
Configuration	Atop Management Utility, Web UI, Telnet, Serial Console, LCM Display	





VirtualCOM	Windows/Linux redirection software	
Modbus Features		
Supported Modes Ethernet: Modbus TCP Server/Client(or VCOM); Serial: Modbus RTU/ASCII (master/slave)		
Maximum number of clients/slaves	Modbus TCP: Maximum 16 clients; Maximum 32 slave connections	

DIMENSIONS & LAYOUT



REGULATORY APPROVALS

Regulatory Approvals				
Safety	EN60950-1:2006/ IEC60950-1 LVD			
EMC	FCC Part 15, Subpart B, Class B EN 55022, Class B, EN 61000-3-2, EN 61000-3-3, EN 55024			
Test	ltem		Value	Level
IEC 61000-4-2	ESD	Contact Discharge Air Discharge	±8kV ±15kV	4
IEC 61000-4-3	RS	Radiated (enclosure)	10 V/m	3
IEC 61000-4-4	EFT	AC Power Port DC Power Port Signal Port	±4.0KV ±4.0KV ±2.0KV	4 4 3
IEC 61000-4-5	Surge	AC Power Port AC Power Port DC Power Port DC Power Port Signal Port	Line-to Line±2.0KV Line-to Earth±4.0KV Line-to Line±1.0KV Line-to Earth±2.0KV Line-to Earth±2.0KV	4 4 3 3 4
IEC 61000-4-6	CS	AC Power Port DC Power Port Signal Port	10 V rms 10 V rms 10 V rms	3 3 3

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ROHS

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IEC 61000-4-8	PFMF	Enclosure	1 A/m	3
IEC 61000-4-11	DIP	AC Power Port	-	-
Shock Drop (Freefall) /Vibration	IEC 60068-2-27 ISTA Test Procedure 2A /IEC 60068-2-64			
RoHS II	Yes			
MTBF	TBD			
Warranty	5 years			

ORDERING INFORMATION

Model name	Part Number	Description	Ethernet	Serial
MB5908-N-DC	1P1MB590800001G	8-Port Modbus Gateway, RJ45, RS232/422/485 DC	2 (RJ45)	8 (RJ4
MB5908-SiS-DC	1P1MB590800002G	8-Port Modbus Gateway, RJ45, Isolated RS422/485 DC	2 (RJ45)	8 (RJ4
MB5916-N-DC	1P1MB591600001G	16-Port Modbus Gateway, RJ45, RS232/422/485 DC	2 (RJ45)	16 RJ4
MB5916-SiS-DC	1P1MB591600002G	16-Port Modbus Gateway, RJ45, Isolated RS422/485 DC	2 (RJ45)	16 RJ4
MB5908-N-EU	1P1MB590800013G	8-Port Modbus Gateway, RJ45, RS232/422/485 EU Plug	2 (RJ45)	8 (RJ4
MB5908-N-US	1P1MB590800003G	8-Port Modbus Gateway, RJ45, RS232/422/485 US Plug	2 (RJ45)	8 (RJ4
MB5916-N-EU	1P1MB591600013G	16-Port Modbus Gateway,RJ45,RS232/422/485 EU Plug	2 (RJ45)	16 RJ
MB5916-N-US	1P1MB591600003G	16-Port Modbus Gateway,RJ45,RS232/422/485 US Plug	2 (RJ45)	16 RJ
MB5908-SiS-EU	1P1MB590800004G	8-Port Modbus Gateway, RJ45, Isol. RS422/485 EU Plug	2 (RJ45)	8 (RJ4
MB5908-SiS-US	1P1MB590800014G	8-Port Modbus Gateway, RJ45, Isol. RS422/485 US Plug	2 (RJ45)	8 (RJ4
MB5916-SiS-EU	1P1MB591600014G	16-Port Modbus Gateway,RJ45,Isol. RS422/485 EU Plug	2 (RJ45)	16 RJ
MB5916-SiS-US	1P1MB591600004G	16-Port Modbus Gateway,RJ45,Isol. RS422/485 US Plug	2 (RJ45)	16 RJ
SDK version	Contact HQ	SDK Programmable version, ask HQ for information	2 (RJ45)	8/16

Optional Accessories			
Model name	Part Number	Description	
SDR-75-24	50500752240001G	75W/3.2A DIN-Rail 24VDC power supply with 88~264VAC / 124~370VDC input	
AD17-24C (US-Y)	50500151240002G	Y-Type power adaptor,100-240VAC input, 0.6A @ 24VDC output, US plug	
AD17-24D (EU-Y)	50500151240012G	Y-Type power adaptor,100-240VAC input, 0.6A @ 24VDC output, EU plug	
GDC-120	59906861G	120mm copper woven grounding cable	
CBL-RJ45(8P)-DB9(M)-90	50891781G	RJ45 to DB9 Male Cable, 90cm	
CBL-RJ45(8P)-DB9(M)-200	50891951G	RJ45 to DB9 Male Cable, 200cm	
CBL-RJ45(8P)-DB9(F)-90	50891791G	RJ45 to DB9 Female Cable, 90cm	
CBL-RJ45(8P)-DB9(F)-90-C	50891971G	RJ45 to DB9 Female Cross Over Cable, 90cm	
CBL-RJ45(8)-DB9(F)-200-C	50891961G	RJ45 to DB9 Female Cross Over Cable, 200cm	
RMK-718-Black	7010000000040G	Rack Mount Mounting-Kit, Black	
Power Cable (US)	50801041G	6 feet Power Cable, US	
Power Cable (EU)	50801051G	6 feet Power Cable, EU	
Fuse	50709441G	SFP Transceiver, 1250Mbps, 1310nmDFB, Single-mode, 30km, 3.3V, -40~85°C	

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