Industrial Modbus Ethernet to Serial Gateways - copper

Models BB-MESR901, BB-MESR902T



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Model BB-MESR901

FEATURES

- Bridge Modbus TCP Ethernet and RS-232/422/485 networks
- Modbus TCP, ASCII, RTU (up to 16 masters & 32 slaves)
- Data rate: up to 230.4 kbps
- -40 to +80 °C wide operating temperature range
- IP30 case, DIN rail mount, (panel mount option)
- 10-48 VDC input required (power supply not included, sold separately)
- UL Class 1/Division 2

MESR900 series Copper Modbus Gateways bridge devices on Modbus serial networks (RS-232, RS-422 or RS-485) with those on Modbus TCP networks allowing seamless integration. Serial ports can be accessed over a LAN or WAN using Direct IP Mode connections.

Supporting up to 16 masters and 32 slaves, these gateways feature autodetecting 10/100 copper options. Serial data rates up to 230 kbps ensure maximum network flexibility.

MESR900 series Copper Modbus Gateways are built for use in industrial environments, featuring a slim IP30 DIN rail mountable case.

They operate from a range of DC power supply voltages and have pluggable terminal block connectors. An external power supply, sold separately, is required. Easy-to-use software is designed for Windows 2000, 2003 Server, XP, Vista, 2008 Server, 7, 8, 10.

ORDERING INFORMATION

MODEL NUMBER	SERIAL PORTS	SERIAL CONNECTOR	ETHERNET PORT	ETHERNET CONNECTOR
BB-MESR901	1	DB9 or Terminal Block	(1) Copper	RJ45
BB-MESR902T	2	Terminal Block	(1) Copper	RJ45

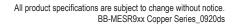
ACCESSORIES - sold separately

BB-MDR-20-24 - 24VDC, 1.0 A output power, DIN rail mount power supply

BB-MDR-40-24 - 24VDC, 1.7 A output power, DIN rail mount power supply

BB-TBKT1 - Replacement Terminal Block - 2-position, 5.08mm, 8A, 30

BB-TBKT2 - Replacement Terminal Block - 5-position, 5.08mm, 8A, 30





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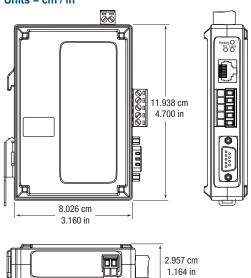


SPECIFICATIONS

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SERIAL TECHNOLOGY		
RS-232	TD, RD, RTS, CTS, DTR, DCR, DTD, GND	
RS-485 2-Wire	Data A(-), Data B(+), GND	
RS-422/485 4-Wire	TDA(-), TDB(+), RDA(-), RDB(+), GND	
Serial Connector/s	DB9M or Removable Terminal Blocks; 12 to 28 AWG	
Data Rate	Up to 230.4 Kbps	
POWER		
Source	External, required (not included, sold separately)	
Input Voltage	10 to 48 VDC (58 VDC, maximum)	
Connector	Removable Terminal Block (12 to 28 AWG)	
POWER CONSUMPTION		
BB-MESR90X	4.0 Watts	
MECHANICAL		
LED Indicators	Serial Port, Ethernet Link, Ready	
Switches	Reset Button	
Dimensions	11.94 x 8.03 x 2.96 cm	
Weight	149.7 gm	
ENVIRONMENTAL		
Operating Temperature	-40 to +80 °C	
Operating Humidity	0 to 95%, non-condensing	
MEANTIME BETWEEN	FAILURES (MTBF)	
MTBF	~132309 hours	
MTBF Calc Method	Parts Count Reliability Prediction	
NETWORK		
Serial Memory	8 KB per port	
Network Memory	4 KB	
LAN	10/100 Mbps, auto-detecting	
Ethernet	IEEE 802.3 auto-detecting & auto MDI/MDX 10/100	

PROTOCOLS				
Protocols	TCP, IPv4, ARP, HTTP 1.0, ICMP/PING, DHCP/BOOTP			
IP Mode	Static, DHCP			
TCP	User definable			
OTHER				
Mode	Modbus RTU Master / Slave Modbus ASCII Master / Slave			
Search	Serial direct COM and Ethernet Auto Search or specific IP			
Diagnostics	Display PC IP, ping, test VCOM, save test config. (text readable)			
Firmware Upgrade	via Vlinx Manager			
ETHERNET PASS-THROUGH PORT (MESR92X)				
Standards	IEEE 802.3, 802.3u, 802.3x			
Processing Type	Store & Forward with 802.3x full duplex, non-blocking flow control			
Flow Control	IEEE 802.3x flow control, back pressure flow control			
MAC Address Table	2K			
CONFIGURATION SOFTWARE				
Vlinx Manager - Windows O/S	2000, XP, 2003 Server, Vista, 2008 Server, 7, 8, 10 (32/64 bit)			
APPROVALS / DIRECTIVES/ STANDARDS				
Compliance	FCC, CE			
UL	UL Listed UL Class 1/Division 2, Groups A, B, C, D (HAZLOC)			
CE - Directives	2014/30/EU - Electromagnetic Compatibility (EMC) 2011/65/EU amended by (EU) 2015/863 Reduction of Hazardous Substances Directive (RoHS) 2012/19/EU - Waste Electrical and Electronic Equipment (WEEE)			
CE - Standards	EN 55032 Class B - Electromagnetic Compatibility of Multimedia Equipment - Emission Requirements EN 55024 - Information Technology Equipment - Immunity Characteristics - Limits and Methods of Measurement (ITE)			

MECHANICAL DIAGRAM - BB-MESR901 Units = cm / in



MECHANICAL DIAGRAM - BB-MESR902T Units = in

