Ultra Compact Modbus Gateway

Model BB-MESP211T



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FEATURES

- Connect Modbus devices to the Ethernet network
- RS-232/422/485 to Modbus TCP, ASCII, RTU (masters, slaves)
- Data rate: up to 230.4kbps
- Remote monitoring, configuration, upgrades via web browser
- Wide operating temperature: -40 to +80 °C
- · Compact IP30 metal enclosure is panel or DIN rail mount
- 10-30Vdc power supply required and included

Model BB-MESP211T, Vlinx™ Modbus Gateway, connects Modbus devices to Ethernet networks and lets you monitor and control Modbus devices from anywhere on the Ethernet LAN or WAN. Supporting up to 16 masters and 32 slaves, the gateway features an auto-detecting 10/100 Ethernet copper RJ-45 port and a serial port that supports RS-232/422/485 communications via a removable terminal block connection.

The gateway is built for use in industrial environments with a heavy-duty metal enclosure that is panel (standard) or DIN rail mountable (with optional adapters).

Power Source (included)

The product requires and operates from a 10-30Vdc range of power inputs. It ships with an included AC wall power supply that features a universal AC input, barrel connector and interchangeable blades for North America, Europe, UK, Australia and China.

Ease of Use

Configuration, upgrades and monitoring are easy with Vlinx Manager software. It installs on your PC giving access to the device on your desktop/laptop. Remotely manage the Modbus Gateway over a LAN/WAN via the built-in web server. This is helpful for off-site troubleshooting and can be done with an ordinary web browser.

Software Support

Windows XP (32/64 bit), 2003 Server (32/64 bit), Vista 32/64 bit), 2008 Server (32/64 bit), 7 (32/64 bit), 8 (32/64 bit), 10 (32/64 bit).

ORDERING INFORMATION

MODEL NUMBER	PROTOCOL	SERIA L PORT		ETHERNET CONNECT OR
BB-MESP211T	RS-232/422/485	Removable Terminal Block	1	RJ45

ACCESSORIES - sold separately

BB-SMI6-12-V-P5 - Power supply, 12V DC, 6 Watt, 5mmplug, International AC input, International AC blades. *One power supply (this model#) included with product.*

BB-DRAD35 - Optional DIN rail adapter clip (pair)

BB-232NM9 - Optional null modem crossover cable for DTE to DTE connection

BB-TBKT2 - Replacement terminal block, 5-position, 5.08mm, 8A, 30





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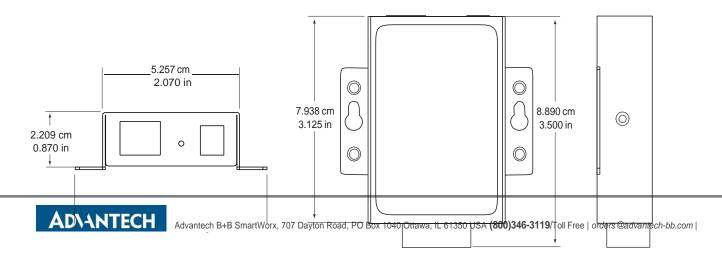
SPECIFICATIONS

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SERIAL TECHNOLOGY					
RS-232	TD, RD, DTR, DSR, RTS, CTS, DCD plus Signal Ground				
RS-485 2-Wire	Data A(-), Data B(+), GND				
RS-422/485 4-Wire	TDA(-), TDB(+), RDA(-), RDB(+), GND				
Serial Protocols & Connectors	RS-232/422/485 (removeable terminal block)				
Data Rate	Up to 230.4 Kbps				
MECHANICAL					
LED Indicators	Serial Port, Ethernet, Ready				
Switches	Reset button				
Dimensions	7.938 x 5.257 x 2.209 cm (3.125 x 2.070 x 0.870 in)				
Enclosure	IP30, metal				
ENVIRONMENTAL					
Operating Temperature	-40 to +80 °C (-40 to +176 °F)				
Operating Humidity	10 to 95%, non-condensing				
MEANTIME BETWEEN F	FAILURES (MTBF)				
MTBF	1020400 hours				
MTBF Calculation Method	MIL 217 F Parts Count Reliability Prediction				
POWER SOURCE - INCLUDED					
Included Power Supply	AC Wall Adapter Power Supply & international blade kit				
Output Voltage	12Vdc				
Output Current	0.5A, maximum				
Output Power	6W, maximum				
Ripple & Noise	200mVp-p, maximum				
Output Plug	Standard DC straight plug; 2.1mm barrel connector				
Input Voltage	90 to 264 V AC				
Frequency	47 to 63 Hz				
Power Connector Dimensions	5.5 x 2.1 mm				
Power Consumption	2.5 Watts, maximum No load; Level VI = 0.1W; ErP Tier 1 = 0.075W				
Operating Temperature	0 to +40 °C (+32 to +104 °F)				
Storage Temperature	-10 to +70 °C (-14 to +158 °F)				
Operating Humidity	20 to 80%				
Storage Humidity	10 to 90%				
International Blade Kit	North America, Europe, U.K., Australia, China, Japan				

SPECIFICATIONS- continued

SPECIFICATI	ONS- continued			
NETWORK				
Serial Memory	8 KB per port			
Network Memory	4 KB			
LAN	10/100 Mbps auto-detecting, 10BaseT or 100BaseTX			
Ethernet	IEEE 802.3 auto-detecting & auto MDI/MDI-X, 10BaseT & 100Base TX			
PROTOCOLS				
Protocols	TCP, IPv4, UDP, ARP, HTTP 1.0, ICMP/PING, DHCP/BOOTP			
IP Mode	Static, DHCP			
TCP/UDP UDP	User definable Unicast or Multicast			
OTHER				
Connection Mode	Server, Client, VCOM, Paired			
Client Connection	At power up or upon data arrival			
Search	Serial direct COM and Ethernet Auto Search or specific IP			
Diagnostics	Display PC IP, ping, test VCOM			
Firmware Upgrade	via Vlinx™ Manager			
CONFIGURATION	ON SOFTWARE			
Vlinx™ Manager	Windows XP (32/64), 2003 Server (32/64), Vista (32/64), 2008 Server			
REGULATORY	(32/64), 7 (32/64), 8/8.1 (32/64), 10 (32/64)			
UL	UL Listed (File E353510)			
FCC	FCC Part 15 Class B			
. 00	2014/30/EU – Electromagnetic Compatibility			
CE - Directives	Directive (EMC) 2014/35/EU – Low Voltage			
CE - Directives	Directive			
	2015/863/EU – Reduction of Hazardous Substances			
	Directive (RoHS) 2012/19/EU – Waste Electrical and Electronic Equipment (WEEE)			
	EN55032 Class B – Electromagnetic Compatibility of			
CE - Standards	Multimedia			
OL Oldriddids	Equipment – Emission Requirements EN55024 – Information Technology Equipment - Immunity			
	Characteristics – Limits of methods of measurement			
CE - Safety	EN 60950-1 +A1 + A11 +A12 + A2			

MECHANICAL DIAGRAM - BB-MESP211T



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 7.303 cm	
2.875 in	

Industrial Communication Products Ltd

Tel: +44(0) 203 086 9569

Web: www.industrialcomms.com

Email: sales@industrialcomms.com

