B&B ELECTRONICS

Ultra Compact Modbus Gateways

MESP211 Series

PRODUCT FEATURES

- Modbus TCP Ethernet, Modbus ASCII & RTU RS-232/422/485
- Modbus Flexibility – Serial & Ethernet, Masters & Slaves
- View Messaging Status in Real Time
- Wide Operating Temperature (-40 to 80 °C)
- Wide Voltage input 10 to 30 VDC
- Ultra Compact IP30 Metal Enclosure
- Heavy industrial 61000-6-2 EMC Level 3 for harsh environments

Vlinx™ MESP211 series Modbus Gateways connect Modbus devices to Ethernet networks and let you monitor and control Modbus devices from anywhere on the Ethernet LAN or WAN. Supporting up to 16 masters and 32 slaves, the gateways feature an auto-detecting 10/100 Ethernet copper RJ-45 port and a serial port that supports RS-232/422/485 communications via a DB9 male or a terminal block connection. The product is built for use in industrial environments with a heavy duty metal enclosure that is panel (standard) or DIN rail mountable (with optional adapters). The product can be supplied with a DC power source ranging from 10 to 30VDC and features a barrel connector.

Ease of Use

Configuration, upgrades and monitoring of the serial server are simple, easy tasks with Vlinx Manager Software. It installs on your PC giving access to the serial server via your desktop. Remotely manage the Modbus Gateway over a LAN or WAN via the build-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), Windows 7 (32/64 bit), Windows 8 (32/64 bit).

ORDERING INFORMATION

MODEL NUMBER	PROTOCOL	SERIAL PORT	ETHERNET PORT	ETHERNET CONNECTOR
MESP211D	RS-232/422/485	DB9 Male	1	RJ45
MESP211T	RS-232/422/485	Removable Terminal Block	1	RJ45

ACCESSORIES

MDR-40-24 - 24VDC, 40 W DIN rail mount power supply

DRAD35 - DIN rail adapter clip (pair)

232NM9 - Null modem crossover cable

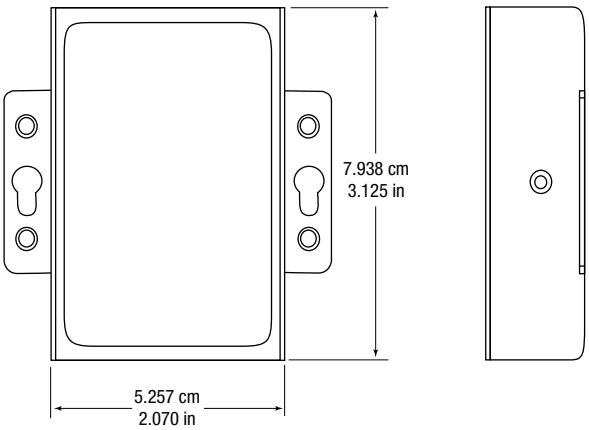
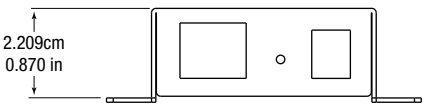
Ultra Compact Modbus Gateways

MESP211 Series

SPECIFICATIONS

POWER	
Source	External power supply included
Input Voltage	10 to 30 VDC
Connector	Barrel connector
Power Consumption	2.5 W
MECHANICAL	
LED Indicators	Serial Port, Ethernet Link, Ready LEDs
Switches	Reset Button
Dimensions	7.9 x 2.2 x 5.3 (with ears 7.3) cm (3.1 x 0.9 x 2.1 [with ears 2.89] in)
Enclosure	Panel mount, Metal, IP30, (Optional Din Rail Mount)
ENVIRONMENTAL	
Operating Temperature	-40 to 80°C (-40 to 176°F)
Operating Humidity	10 to 95% Non-condensing
MTBF	186,310 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 , 10BaseT or 100BaseTX
Ethernet	IEEE 802.3 auto detecting & auto MDI/MDX, 10BaseT and 100Base TX

SERIAL TECHNOLOGY	
RS-232	TD, RD, DTR, DSR, RTS, CTS, DCD plus Signal Ground
RS-485 2-Wire	Data A(-), Data B(+), Signal Ground
RS-422/485 4-Wire	TDA(-), TDB(+), RDA(-), RDB(+), Signal Ground
Serial Connector	DB9M or Removable Terminal Blocks
Data Rate	Up to 230.4 Kbps
PROTOCOLS	
Protocols	TCP, IPv4, UDP, ARP, HTTP 1.0, ICMP/PING, DHCP/BOOTP
IP Mode	Static, DHCP
TCP/UDP	User definable
UDP	Unicast or Multicast
OTHER	
Connection Mode	Server, Client, VCOM, Paired
Search	Serial direct COM and Ethernet Auto Search or specific IP
Diagnostics	Display PC IP, ping, save test config (text readable)
Firmware Upgrade	Vlinx Manager
CONFIGURATION SOFTWARE	
Vlinx Manager	Windows XP (32/64 bit), 2003 Server (32/64 bit), Vista (32/64 bit), 2008 Server (32/64 bit), Windows 7 (32/64 bit), Windows 8 (32/64 bit)

APPROVALS / CERTIFICATIONS		
CE	EN61000-6-2:2005	(Heavy Industrial)
	EN61000-4-2:2008	(ESD) +/-8kV Contact, +/-15kV Air
	EN61000-4-3:2006	(RI) 10V/m, 80-1000MHz; 3V/m, 1.3 to 2.7 GHz
	EN61000-4-4:2004	(EFT Burst) +/-2kV DC ports; +/-1kV signal ports
	EN61000-4-5:2005	(Surge) +/- 0.5 kV DC Ports, +/- 1 kV Signal Ports
	EN61000-4-6:2005	(CI) 10 VRMS, 0.15 to 80 MHz
	EN61000-4-8:2001	(Magnetic) 10A/m, 50Hz & 60Hz
	Shock	IEC60068-2-27 50G peak, 11ms, 3 axes
	Vibration	IEC60068-2-6 10-500Hz, 4G, 3 axes
	Freefall (Drop)	IEC60068-2-32 10 total drops from sides, corner and edges, 1M

MECHANICAL DIAGRAM