

**B&B ELECTRONICS**

# Ultra Compact Ethernet Serial Servers

**VESP211 Series**

## PRODUCT FEATURES

- Ultra compact design fits into the tightest spaces
- RS-232, RS-422/485, and RS-232/422/485 models
- Wide operating temperature (-40 to 80°C)
- Wide voltage input (10 to 30VDC)
- IP30 metal enclosure
- Heavy industrial 61000-6-2 EMC Level 3 tested for harsh environments

VESP211 Serial Servers connect serial devices (RS-232, RS-422 or RS-485) to Ethernet networks, allowing the serial device to become a node on the network. The serial port can be accessed over a LAN/WAN using Direct IP Mode, Virtual COM Port, or Paired Mode connections. VESP211 Serial Servers feature 10BaseT or 100BaseTX copper network. The product is built for use in industrial environments, featuring a heavy duty metal enclosure that is panel (standard) or DIN rail mountable (with optional adapter). The product operates from a range of DC power supply voltages and features a barrel connector.

### Ease of Use

Configuration, upgrades and monitoring are simple, easy tasks with Vlinx™ Manager Software. It installs right on your PC giving you access to the serial server via your desktop. Manage remotely over a LAN or WAN via the built-in web server. This is helpful for off-site troubleshooting and can be done with a simple web browser.

## ORDERING INFORMATION

MODEL NUMBER	SERIAL PROTOCOL	SERIAL PORT	ETHERNET PORTS	ETHERNET CONNECTOR
<b>US Power Supply</b>				
VESP211	RS-232/422/485	DB9M	1	RJ45
VESP211-232	RS-232	DB9M	1	RJ45
VESP211-485	RS-422/485	Removable Terminal Block	1	RJ45
<b>European Power Supply - (EU)</b>				
VESP211-EU	RS-232/422/485	DB9M	1	RJ45
VESP211-232-EU	RS-232	DB9M	1	RJ45
VESP211-485-EU	RS-422/485	Removable Terminal Block	1	RJ45
<b>United Kingdom Power Supply - (UK)</b>				
VESP211-UK	RS-232/422/485	DB9M	1	RJ45
VESP211-232-UK	RS-232	DB9M	1	RJ45
VESP211-485-UK	RS-422/485	Removable Terminal Block	1	RJ45

## ACCESSORIES

EIRSP1 - Industrial Ethernet Surge Suppressor

232NM9 - Null Modem Crossover Cable for DTE to DTE connection

DRAD35 - DIN Rail Adaptor Clip (pair)

PS12VDC1A - Replacement Power Supply

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## SPECIFICATIONS

SERIAL TECHNOLOGY	
RS-232 (DB9)	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 Connector RS-422	DB9M or Removable Terminal Blocks (RS-422/485 models)
Data Rate	Up to 230.4 Kbps
POWER	
Source	Power supply included
Input Voltage	10 to 30 VDC
Connector	Power Connector 5.5 X 2.1 mm
Power Consumption	2.5 Watts Max.
MECHANICAL	
LED Indicators	Serial Port, Ethernet, Ready LED's
Switches	Reset Button
Dimensions	VESP211 - 7.938 x 5.257 x 2.209 cm (3.125 x 2.070 x 0.870 in)
Enclosure	Metal, IP 30
ENVIRONMENTAL	
Operating Temperature	-40 to 80°C (-40 to 176°F)
Operating Humidity	10 to 95% Non-condensing
MTBF	VESP211 – 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/MDI-X, 10BaseT and 100Base TX

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
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	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)
REGULATORY / CERTIFICATIONS / SAFETY	
Compliance	FCC Part 15 Class A, CE
EMC	Industrial-Hardened, 15,000 volt-protected, 61000-6-2 certified switch
UL	60950

## MECHANICAL DIAGRAM

