Ultra Compact Ethernet Serial Servers

BB-VESR900 Series - Copper Models





BB-VESR901

FEATURES

- Ethernet enable RS-232/422/485 serial devices
- · Direct IP, virtual COM port or paired mode
- Industrial 10 to 48 VDC input power (power supply required, not included, sold separately)
- Wide operating temperature (-40 to +80 °C)
- Dual Ethernet pass-through port option (BB-VESR921)
- UL Class 1/Division 2
- NEMA TS2 (BB-VESR901)

Take control of your serial devices with Vlinx™ BB-VESR9xx Industrial Ethernet Serial Servers. If it has a serial port, it can be monitored and controlled from anywhere on your Ethernet LAN or WAN. Keep at maximum productivity without leaving your office. Configure devices, upgrade firmware monitor and troubleshoot from outside your LAN via the internet/web broswer. The easy-to-use Vlinx™ Manager software puts access to your entire factory floor on your desk.

Model BB-VESR921 also features an additional copper RJ45 port that allows you to connect another Ethernet device or PC work-station. This pass-through port functions much like an unmanaged switch.

Heartbeat connectivity keeps the serial server online. If connectivity is lost, it attempts to reconnect every five seconds until connection is regained. A manual reboot is not needed when communications are restored.

Fiber options are also available - contact B+B SmartWorx.

ORDERING INFORMATION

MODEL NUMBER	SERIAL PORTS	SERIAL CONNECTORS	ETHERNET MEDIA	ETHERNET CONNECTORS
BB-VESR901*	1	DB9 & TB	Category 5	RJ45
BB-VESR902D	2	DB9	Category 5	RJ45
BB-VESR921	1	DB9 & TB	Category 5	(2) RJ45

^{*}NEMATS2

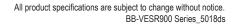
ACCESSORIES - sold sepatately

BB-MDR-40-24 - 24VDC Power Supply, 1.7 A Output Power, DIN Rail Mount

BB- DRPM25 - 35mm DIN Rail to Panel Mount Adapter Bracket

BB-TBKT2 - (1) 5-position, 5.08 mm, Replacement Terminal Block

BB-TBKT1 - (1) 2-position, 5.08 mm, Replacement Terminal Block





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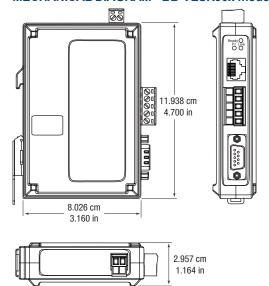


SPECIFICATIONS

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SERIAL TECHNOLOGY	,			
RS-232	TD, RD, RTS, CTS, DTR, DSR, DTD, GND			
RS-485 2-Wire	Data A(-), Data B(+), GND			
RS-422/485 4-Wire	TDA(-), TDB(+), RDA(-), RDB(+), GND			
Serial Connector	DB9M or Removable Terminal Blocks			
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 – 28 AWG)			
Power Consumption	BB-VESR90x: 4.0 Watts, maximum BB-VESR92x: 6.0 Watts, maximum			
MECHANICAL				
LED Indicators	Serial Port, Ethernet Link, Ready			
Switches	Reset Button			
Dimensions	BB-VESR90x: 11.94 x 8.03 x 2.96 cm (4.70 x 3.16 x 1.16 in) BB-VESR92x: 14.86 x 10.11 x 2.96 cm (5.85 x 3.98 x 1.16 in)			
Enclosure	35mm DIN mount, Plastic, IP30			
Weight	BB-VESR90x: 149.7 g (0.33 lb) BB-VESR92x: 204.1 g (0.45 lb)			
ENVIRONMENTAL	• • • • • • • • • • • • • • • • • • • •			
Operating Temperature	-40 to +80 °C (-40 to +176 °F)			
Operating Humidity	0 to 95% Non-condensing			
MEANTIME BEFORE FAILURE (MTBF)				
MTBF	BB-VESR901: 873201 hours BB-VESR902D: 700618 hours BB-VESR921: 418435 hours			
MTBF Calc. Method	Parts Count Reliability Prediction			
NETWORK				
Serial Memory	8 KB per port			
Network Memory	4 KB			
NETWORK COMMUNICATIONS				
LAN	10/100 Mbps auto-detecting, 10BaseT or 100BaseTX			

NETWORK PHYSIC	CAL LAYER STANDARDS			
Ethernet	IEEE 802.3 auto-detecting & MDI/MDX, 10BaseT & 100Base TX			
PROTOCOLS				
Protocols	TCP, IPv4, UDP, ARP, HTTP 1.0, ICMP/PING, DHCP/BOOTP			
IP Mode	Static, DHCP			
TCP/UDP	User definable			
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, save test config (text readable)			
Firmware Upgrade	Vlinx Manager			
ETHERNET PASS-	THROUGH PORT (BB-VESR92X)			
Standards	IEEE 802.3, 802.3u, 802.3x			
Processing Type	Store and Forward with 802.3x full duplex, non-locking flow control			
Flow Control	IEEE 802.3x flow control, back pressure flow control			
MAC Address Table	2K			
CONFIGURATION SOFTWARE				
Vlinx Manager	Windows 2000, XP (32/64 bit), 2003 Server (32/64 bit), Vista (32/64 bit), 2008 Server (32/64 bit), 7 (32/64 bit), 10 (32/64 bit)			
APPROVALS, DIRECTIVES, STANDARDS				
Approvals	FCC, CE, NEMA TS2 (Model# BB-VESR901 only) UL Listed (#E2222870), UL Class 1/Division 2 A, B, C, D (#E245458)			
CE - Directives	2014/30/EU - Electromagnetic Compatibility Directive 2011/65/EU - Reduction of Hazardous Substances Directive (RoHS) 2012/19/EU - Waste Electrical and Electronic Equipment (WEEE)			
CE - Standards (EMC)	EN 55032 Class B - Electromagnetic Compatibility of Multimedia Equipment - Emission Requirements EN 55024 - Information Technology Equipment - Immunity Characteristics - Limits and Methods of Measurement EN 61000-6-1 - Generic Immunity Standard for Residential, Commercial and Light-industrial Environments EN 61000-6-2 - Generic Standard - Immunity for (Heavy-) Industrial Environments			

MECHANICAL DIAGRAM - BB-VESR90x models



MECHANICAL DIAGRAM - BB-VESR921 model

