Ultra Compact Ethernet Serial Servers

BB-VESR9xx series



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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 (Model# BB-VESR922T)
- NEMA TS2 (Model# BB-VESR901)
- UL Class 1/Division 2

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-VESR922T also features an additional copper RJ45 port allowing you to connect another Ethernet device or PC work-station. This passthrough 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.

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-VESR922T+	2	ТВ	Category 5	(2) RJ45)

^{*}NEMA TS2

ACCESSORIES - sold separately

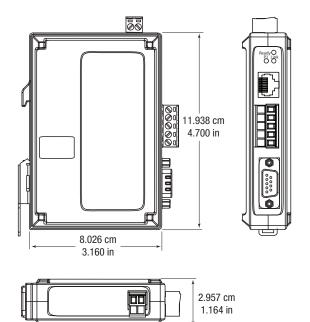
BB-MDR-40-24 - 24VDC Power Supply, 1.7 A Output Power, DIN Rail Mount

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

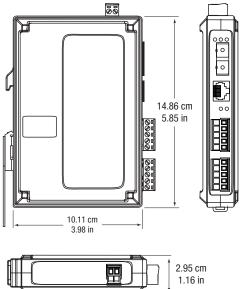
BB-TBKT1 - Replacement Terminal Block - 2-position, 5.08mm, 8A, 30

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

MECHANICAL DIAGRAM - VESR90X MODELS



MECHANICAL DIAGRAM - BB-VESR922T





All product specifications are subject to change without notice. BB-VESR9xx Series_1019ds



⁺ Dual Ethernet pass-through port

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BB-VESR902D

SPECIFICATIONS

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SERIAL TECHNOLOGY	1		
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-VESR922T: 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-VESR922T: 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: 149.7gm (0.33 lb) BB-VESR92x: 204.1gm (0.45 lb)		
ENVIRONMENTAL			
Operating Temperature	-40 to +80 °C (-40 to +176 °F)		
Operating Humidity	0 to 95%, non-condensing		
MEANTIME BETWEEN			
MTBF	BB-VESR901: 873201 hours BB-VESR902D: 700618 hours BB-VESR922T: 375122 hours		
MTBF Calc. Method	MIL217F Parts Count Reliability Prediction		
NETWORK			
Serial Memory	8 KB per port		
Network Memory	4 KB		
NETWORK COMMUNIC	CATIONS		
LAN	10/100 Mbps auto-detecting, 10BaseT or 100BaseTX		
NETWORK PHYSICAL 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-1	THROUGH PORT (BB-VESR922T)			
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 OS	Windows 2000, 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)			
APPROVALS, DIRECTIVES, STANDARDS				
,	FCC, CE			
Approvals	NEMA TS2 (Model# BB-VESR901 only)			
	UL Listed, UL Class 1/Division 2 A, B, C, D			
CE - Directives	2014/30/EU - Electromagnetic Compatibility			
	2011/65/EU - Reduction of Hazardous Substances (RoHS2)			
	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			