Ultra Compact Ethernet Serial Servers

B+B SMARTWORX

Powered by

AD\ANTECH



VESR900 Series - Copper Models

PRODUCT FEATURES

- Ethernet enable serial devices
- Direct IP, virtual COM port, or paired mode
- Ethernet pass-through port available
- Serial RS-232/RS-422/485 ports
- UL Class 1 Division 2
- NEMA TS2 (VESR901)

Take control of your serial devices with Vlinx[™] 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 it at maximum productivity without leaving your office. Even troubleshoot it from outside your LAN via the Internet. The easy to use Vlinx[™] Manager software puts access to your whole shop on your desk. Configure devices, upgrade firmware and monitor activity. Configuration changes can also be made using a web browser.

VESR92x series servers also feature 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.

ORDERING INFORMATION

MODEL NUMBER	SERIAL Ports	SERIAL Connectors	ETHERNET MEDIA	ETHERNET Connectors
VESR901 ⁺	1	DB9 & TB	CAT 5	RJ45
VESR902D	2	DB9	CAT 5	RJ45
VESR902T	2	ТВ	CAT 5	RJ45
VESR921	1	DB9 & TB	CAT 5	Two RJ45
VESR922T	2	ТВ	CAT 5	Two RJ45

* For fiber options please see page 154.

[†] NEMA TS2

ACCESSORIES

MDR-40-24 - DIN rail mount power supply 24VDC, 1.7 A output power ERS35 - 1 M 35mm DIN rail, steel

DRPM25 - 35mm DIN Rail to Panel Mount Bracket

TBKT2 - Replacement Terminal Block, One 5 Position 5.08 mm

TBKT1 - Replacement Terminal Block, One 2 Position 5.08 mm

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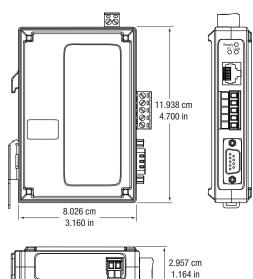


SPECIFICATIONS

RS-232TD, RD, RTS, CTS, DTR, DSR, DTD, GNDRS-485 2-WireData A(-), Data B(+), GNDRS-422/485 4-WireTDA(-), TDB(+), RDA(-), RDB(+), GNDSerial ConnectorDB9M or Removable Terminal BlocksData RateUp to 230.4 KbpsPOWERSourceExternalInput Voltage10 to 48 VDC (58 VDC Maximum)ConnectorRemovable Terminal Block (12 – 28 AWG)Power ConsumptionVESR90x: 4.0 Watts Max. VESR92x: 6.0 Watts Max.MECHANICALVESR90x: 1.1.94 x 8.03 x 2.96 cm (4.70 x 3.16 x 1.16 in)LED IndicatorsSerial Port, Ethernet Link, ReadySwitchesReset ButtonVESR90x: 1.4.86 x 10.11 x 2.96 cm (5.85 x 3.98 x 1.16 in)Enclosure35mm DIN mount, Plastic, IP 30WeightVESR90x: 149.7 g (0.33 lbs) VESR92x: 204.1 g (0.45 lbs)POURENTALVESR90x: - 132309 hours VESR92x: ~ 102593 hoursMTBFVESR90x: ~ 132309 hours VESR92x: ~ 102593 hoursMTBFSkB per portNetwork Memory4 KBNETWORK COMMUNICATIONELAN10/100 Mbps Auto-detecting , 10BaseT or 100BaseTX	SERIAL TECHNOLOGY			
RS-422/485 4-WireTDA(-), TDB(+), RDA(-), RDB(+), GNDSerial ConnectorDB9M or Removable Terminal BlocksData RateUp to 230.4 KbpsPOWERExternalSourceExternalInput Voltage10 to 48 VDC (58 VDC Maximum)ConnectorRemovable Terminal Block (12 – 28 AWG)Power ConsumptionVESR90x: 4.0 Watts Max.VESR90x: 4.0 Watts Max.VESR90x: 4.0 Watts Max.WECHANICALLED IndicatorsSerial Port, Ethernet Link, ReadySwitchesReset ButtonVESR90x: 11.94 x 8.03 x 2.96 cm (4.70 x 3.16 x 1.16 in)DimensionsVESR90x: 14.86 x 10.11 x 2.96 cm (5.85 x 3.98 x 1.16 in)Enclosure35mm DIN mount, Plastic, IP 30WeightVESR90x: 204.1 g (0.45 lbs)ENVIRONMENTALOperating Temperature-40 to 80°C (-40 to 176°F)Operating Humidity10 to 95% Non-condensingMTBFVESR90x: ~ 132309 hoursMTBF Calc MethodParts Count Reliability PredictionNETWORKSerial MemoryA KBNETWORK KOMMUNICATIONS	RS-232	TD, RD, RTS, CTS, DTR, DSR, DTD, GND		
Serial ConnectorDB9M or Removable Terminal BlocksData RateUp to 230.4 KbpsPOWER	RS-485 2-Wire	Data A(-), Data B(+), GND		
Data RateUp to 230.4 KbpsPOWERSourceExternalInput Voltage10 to 48 VDC (58 VDC Maximum)ConnectorRemovable Terminal Block (12 – 28 AWG)Power ConsumptionVESR90x: 4.0 Watts Max. VESR92x: 6.0 Watts Max.MECHANICALVESR90x: 4.0 Watts Max.LED IndicatorsSerial Port, Ethernet Link, ReadySwitchesReset ButtonDimensionsVESR90x: 11.94 x 8.03 x 2.96 cm (4.70 x 3.16 x 1.16 in) VESR92x: 14.86 x 10.11 x 2.96 cm (5.85 x 3.98 x 1.16 in)DimensionsVESR90x: 149.7 g (0.33 lbs) VESR92x: 204.1 g (0.45 lbs)ENVIRONMENTALVESR90x: ~ 132309 hours VESR92x: ~ 102593 hoursMTBFVESR90x: ~ 132309 hours VESR92x: ~ 102593 hoursMTBF Calc MethodParts Count Reliability PredictionNETWORKSerial MemorySerial Memory8 KB per portNetwork Memory4 KBNETWORK COMMUNICATIONS	RS-422/485 4-Wire	TDA(-), TDB(+), RDA(-), RDB(+), GND		
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Serial Memory 8 KB per port Network Memory 4 KB NETWORK COMMUNICATIONS	MTBF Calc Method	Parts Count Reliability Prediction		
Network Memory 4 KB NETWORK COMMUNICATIONS	NETWORK			
NETWORK COMMUNICATIONS	Serial Memory	8 KB per port		
LAN 10/100 Mbps Auto-detecting , 10BaseT or 100BaseTX				
	LAN	10/100 Mbps Auto-detecting , 10BaseT or 100BaseTX		

NETWORK PHYSICAL LAYER STA			
	IEEE 802.3 auto detecting & auto MDI/MDX,		
Ethernet	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		
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 (VESR92X)			
Standards	IEEE 802.3, 802.3u, 802.3x		
Processing Type	Store and Forward with 802.3x full duplex, non blocking 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), Win 7 (32/64 bit)		
REGULATORY / CERTIFICATIONS / SAFETY			
Compliance	FCC, CE, NEMA TS2 (VESR901)		
	UL Listed, File E222870 UL Class 1 Division 2 Groups A, B, C, D (HAZLOC) File E245458		

MECHANICAL DIAGRAM -VESR90X MODELS



MECHANICAL DIAGRAM -VESR92X MODELS

