Ultra Compact Ethernet Serial Servers

VESR900 Series - Fiber Models

B+B SMARTWORX

Powered by **ADVANTECH**

PRODUCT FEATURES

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

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.

Multiple fiber optic options make integration into any existing network quick. No need to purchase an extra media converter when you can choose from multi-mode SC/ST or 15km single-mode SC/ST.

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 on-line. If connectivity is lost it will attempt to reconnect every five seconds until a connection is regained. A manual reboot is not required when communications are restored.

ORDERING INFORMATION

MODEL NUMBER	SERIAL PORTS	SERIAL CONNECTORS	ETHERNET MEDIA	ETHERNET CONNECTORS
VESR921-MC	1	DB9 & TB	CAT 5, Multi-mode Fiber	One RJ45, One SC
VESR921-MT	1	DB9 & TB	CAT 5, Multi-mode Fiber	One RJ45, One ST
VESR921-SC	1	DB9 & TB	CAT 5, Single Mode Fiber	One RJ45, One SC
VESR922T-MC	2	TB	CAT 5, Multi-mode Fiber	One RJ45, One SC
VESR922T-MT	2	TB	CAT 5, Multi-mode Fiber	One RJ45, One ST
VESR922T-SC	2	TB	CAT 5, Single Mode Fiber	One RJ45, One SC

+ All serial ports are software configurable for RS-232, RS-422, or RS-485.

Copper options available.

ACCESSORIES

MDR-40-24 - DIN rail mount power supply 24VDC, 1.7 A output power

ESR35 - DIN Rail 1 Meter 35mm 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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All product specifications are subject to change without notice.
VESR900 Series - Fiber Models1416ds

SPECIFICATIONS

FIBER OPTIC TECHNOLOGY

	VESR9xx-Mx	VESR9xx-Sx
Type / Wavelength	Multi-mode / 1310 nm	Single-mode / 1310 nm
Output Power	(-) 19 to (-) 14 dBm	(-) 15 to (-) 8 dBm
Receive Sensitivity	~ (-) 32 dBm	~ (-) 32 dBm
Cable	62.5 / 125 μm	9 / 125 μm
Connector	SC or ST	SC or ST
Range	2 km (1.2 miles)	15 km (9.3 miles)

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
Input Voltage	10 to 48 VDC (58 VDC Maximum)
Connector	Removable Terminal Block (12 – 28 AWG)
Power Consumption	VESR92x: 6.0 Watts Max.

MECHANICAL

LED Indicators	Serial Port, Ethernet Link, Ready
Switches	Reset Button
Dimensions	VESR92x: 14.86 x 10.11 x 2.96 cm (5.85 x 3.98 x 1.16 in)
Enclosure	35mm DIN mount, Plastic, IP 30
Weight	VESR92x: 204.1 g (0.45 lbs)

ENVIRONMENTAL

Operating Temperature	-40 to 80°C (-40 to 176°F)
Operating Humidity	10 to 95% Non-condensing
MTBF	VESR92x: ~ 102593 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 PHYSICAL LAYER STANDARDS

Ethernet	IEEE 802.3 auto detecting & auto MDI/MDX, 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
	UL Listed, File E222870 UL Class 1 Division 2 Groups A, B, C, D (HAZLOC) File E245458

MECHANICAL DIAGRAM - VESR90X MODELS

17.145 cm
6.750 in

11.237 cm
4.424 in

4.572 cm
1.800 in
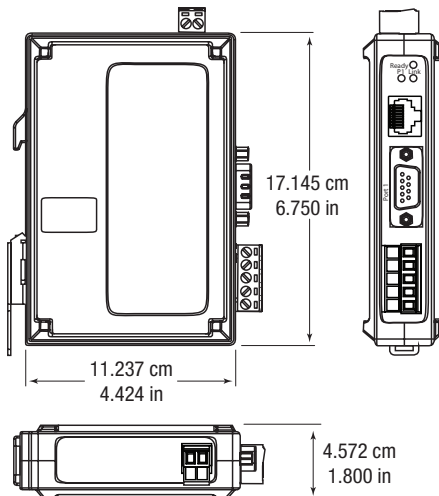
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