

Four Port Industrial Ethernet Serial Servers



PRODUCT FEATURES

- Ruggedized for extreme applications
- UL Class 1/Division 2
- -40 to +80 C° operating temperature
- Shock and vibration tested
- Dual Ethernet ports with fiber options
- NEMA TS2 (Model# VESR424D)

Vlinx™ VESR424 series 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. Serial ports can be accessed over a LAN/WAN using Direct IP Mode, Virtual COM Port, or Paired Mode connections. VESR424 series Serial Servers feature 10BaseT or 100BaseTX copper network media and several fiber optic media options, depending on the model. Many models feature an additional copper Ethernet pass-through port. These Class 1/Division 2 VESR424 series Serial Servers are built for use in industrial environments with heavy duty metal enclosures that are panel and DIN rail mountable. The product operates from a range of DC power supply voltages and features pluggable terminal block power connectors as well as a locking barrel connector that facilitates redundant power sources.

Fiber Optic Ethernet Ports

Choose a serial server with fiber optic Ethernet ports when the application requires long distance runs or high RFI/EMI noise is present. Many applications require a high level of noise immunity and fiber eliminates this problem between devices. Fiber optic connections far exceed the 100m limitation of standard Ethernet copper ports. Multi-mode fiber can be extended up to 2km distance while single-mode fiber can run as far as 20km.

Ease of Use

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

ORDERING INFORMATION

MODEL Number	ETHERNET PORTS	ETHERNET Connector 1	ETHERNET CONNECTOR 2	SERIAL CONNECTOR (X4)
VESR424D †	2	RJ-45	RJ-45	DB9 Male
VESR424D-MC	2	Multi-mode SC	RJ-45	DB9 Male
VESR424D-MT	2	Multi-mode ST	RJ-45	DB9 Male
VESR424D-SC	2	Single-mode SC	RJ-45	DB9 Male
VESR424D-ST	2	Single-mode ST	RJ-45	DB9 Male
VESR424T	2	RJ-45	RJ-45	Terminal Block
VESR424T-MC	2	Multi-mode SC	RJ-45	Terminal Block
VESR424T-MT	2	Multi-mode ST	RJ-45	Terminal Block
VESR424T-SC	2	Single-mode SC	RJ-45	Terminal Block
VESR424T-ST	2	Single-mode ST	RJ-45	Terminal Block

Mounting included: DIN Rail Kit and Panel Mount Kit † NEMA TS2

ACCESSORIES

MDR-40-24 - DIN rail mount power supply 24VDC, 1.7 A output power ERS35 - 1 M DIN Rail, 35MM STEEL

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VESR424 Series



SPECIFICATIONS

SERIAL TECHNOLOGY			
RS-232 (DB9)	TD, RD, DTR, DSR, RTS, CTS, DCD plus Signal Ground		
RS-232 (terminal block)	TD, RD, RTS, CTS, plus Signal Ground		
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		
FIBER OPTIC TECHNOLOGY			

Jenai Gonnectoi	DD3W OF Herriovable Terminal Diocks			
Data Rate	Up to 230.4 Kbps			
FIBER OPTIC TECHNOLOGY				
	VESR424x-Mx	VESR424-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)	20 km (12.4 miles)		
POWER				
Source	External			
Input Voltage	10 to 48 VDC (58 VDC maximum)			
Connector	Removable Terminal Block (16 – 28 AWG)			
Power Consumption	6.0 Watts Max.			
MECHANICAL				
LED Indicators	Serial Port, Ethernet Link, Speed			
Switches	Reset Button			
Dimensions 17.145 x 11.237 x 4.572 cm (6.7		2 cm (6.750 x 4.424 x 1.800 in)		
Enclosure	35 mm DIN Rail, Panel Mount, metal, IP30			
ENVIRONMENTAL				
Operating Temperature	-40 to 80°C (-40 to 176°F)			
Operating Humidity	10 to 95% Non-condensing			
MTBF	VESR424: 70273 hours			
MTBF Calc Method	Parts Count Reliability Prediction			
NETWORK				
Serial Memory	8 KB per port			

4 KB

Network Memory

NETWORK COMMUNICA	ATIONS		
LAN	10/100 Mbps Auto-detecting, 10BaseT or 100BaseTX		
NETWORK PHYSICAL L	AYER 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		
Firmware Upgrade	Vlinx Manager		
ETHERNET PASS-THROUGH PORT (VESR424)			
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		
CONFIGURATION SOFTWARE			
OS Compatibility	Windows 2000, 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,		
	UL Class 1/Division 2		
	Shock IEC 600068-2-27		
	Vibration IEC 600068-2-6		
	NEMA TS2 (Model# VESR424D)		

MECHANICAL DIAGRAM





