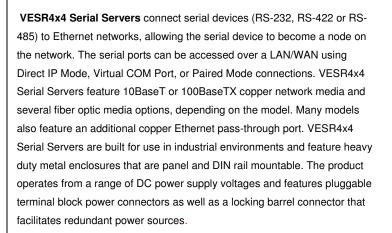
# VESR4x4

# Vlinx ™ 4-Port Industrial Ethernet Serial Servers

- √ Ruggedized for extreme applications
- √ Heavy Industrial 61000-6-2 EMC tested
- √ IEC600068-2-27 (shock) and 600068-2-6 (vibration) tested
- ✓ Wide Operating Temperature (-40 to 80C)
- ✓ Independent Serial Port selection for RS-232, RS-422, or RS-485
- Wide Voltage input 10 to 58VDC, via terminal block or locking barrel plug



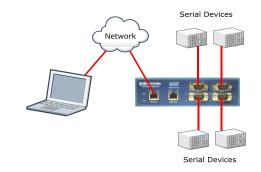
Fiber Optic Ethernet Ports - Choose a serial server with fiber optic Ethernet ports when the application requires long distance runs or high RFI/EMI noise is present. Many applications require a high level of noise immunity and fiber eliminates this problem between devices. Fiber optic connections far 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 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.



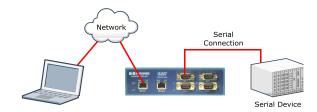
#### **Direct IP Mode**

TCP/IP or UDP/IP socket applications communicate directly with serial devices



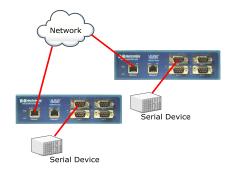
#### **Virtual COM Mode**

Communicate with serial devices through your network as if they were connected to a physical COM port.



#### **Paired Mode**

Serial devices communicate with each other by tunneling through your network.





## **Specifications**

Opecinications						
	Serial Technology					
RS-232 (DB9)	TD, RD, DTR, DSR, RTS, CTS, DCD plus Signal Ground					
RS232 (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					
<b>-</b> / <b></b>	VESR424x-Mx VESR424-Sx					
Type / Wavelength	Multi-mode / 1310 nm Single-mode / 1310 nm					
Output Power	(-)19 to (-) 14 dBm					
Receive Sensitivity	≦ (-) 32 dBm ≦ (-) 32 dBm					
Cable	62.5 / 125 μm 9 / 125 μm					
Connector	SC or ST SC or ST					
Range	1.2 miles (2 km) 12.4 miles (20 km)					
0	Power					
Source	External					
Input Voltage	10 to 58 VDC					
Connector	Removable Terminal Block (16 – 28 AWG)					
Power Consumption 6.0 Watts Max.						
Mechanical  LED Indicators  Social Bort, Ethornot Link, Speed						
LED Indicators Switches	Serial Port, Ethernet Link, Speed Reset Button					
	VESR4x4:1.8 x 4.4 x 6.75 in (4.57 x 12.2 x 17.1					
Dimensions	cm)					
Enclosure	35mm DIN mount, Metal, IP 30					
	Environmental					
Operating Temp	-40 to 80 °C (-40 to 176 ° F)					
Operating Humidity	10 to 95% Non-condensing					
MTBF	VESR4x4: 70273 hours					
MTBF Calc Method	Parts Count Reliability Prediction					
	Network					
Serial Memory	8 KB per port					
Network Memory	4 KB					
IP Port Addresses	5300 – Heartbeat and configuration Setting in TCP Mode (paired mode) 8888 – VESR4x4 Update					
	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	User definable					
	Other 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	Web GUI through Ethernet					
Otomolous!	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 Windows 2000, XP (32/64 bit), 2003 Server (32/64 bit), Vista (32/64 bit), 2008 Server (32/64 bit), Windows 7					
OS Compatibility	(32/64 bit) viridows 2000, XP (32/64 bit), 2003 Server (32/64 bit), Vista (32/64 bit), 2008 Server (32/64 bit), Windows 7					
	Regulatory / Certifications / Safety					
	FCC Part 15 Class A,					
Compliance	CE					
	NEMA TS2					
	Shock IEC 600068-2-27					
	Vibration IEC 600068-2-6					



### **Ordering Information**

Model Number	Ethernet Ports	Ethernet Connector 1	Ethernet Connector 2	Serial Connector (x4)
VESR414D	1	RJ-45		DB9 Male
VESR414T	1	RJ-45		Terminal Block
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

### **Accessory Items**

Din Rail Mount, 24VDC, 40 Watt Power Supply MDR-40-24

PS12VLB-INT-MED 12VDC, Locking Barrel

Cable 232NM9 Null Modem Crossover Cable for DTE to DTE connection

Rail ERS35 one-meter length of steel 35mm DIN Rail

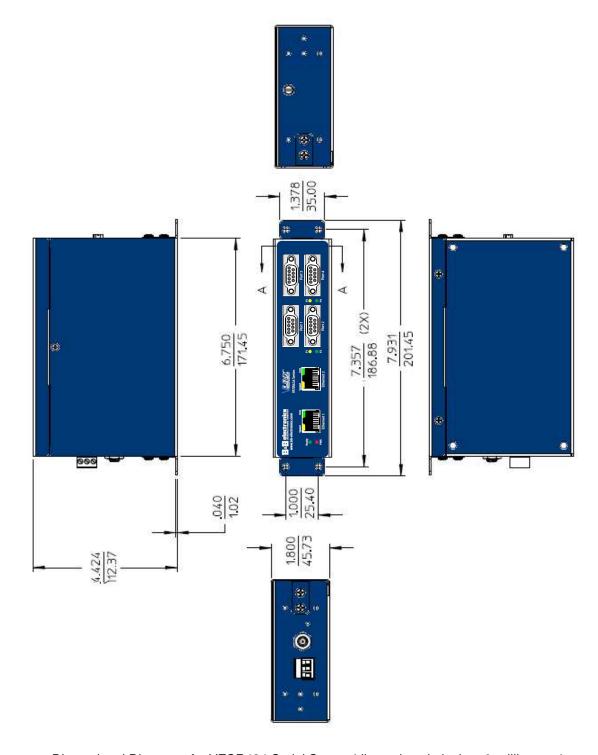
Panel Mount Bracket Kit #9030

Note: PS12VLB-INT-MED locking barrel connector: Female Locking Barrel 5.5 mm OD, 2.5 mm Center Conductor, 9 mm long, Center





## **Mechanical Diagram**



Dimensional Diagram of a VESR424 Serial Server (dimensions in inches & millimeters)

