Chipsmall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

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**

VESR4x4 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. The serial ports can be accessed over a LAN/WAN using Direct IP Mode, Virtual COM Port, or Paired Mode connections. VESR4x4 Serial Servers feature 10BaseT or 100BaseTX copper network media and several fiber optic media options, depending on the model. Many models also feature an additional copper Ethernet pass-through port. VESR4x4 Serial Servers are built for use in industrial environments and feature 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 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.
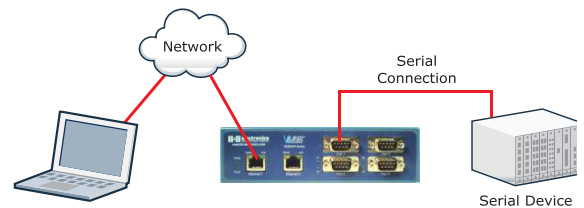
Direct IP Mode
TCP/IP or UDP/IP socket applications communicate directly with serial devices
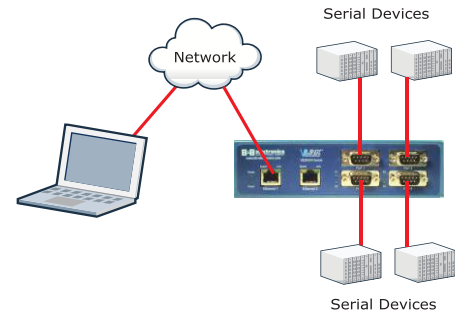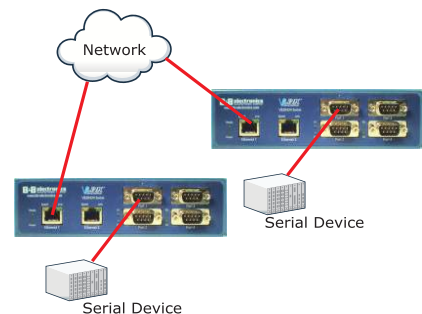

Virtual COM Mode
Communicate with serial devices through your network as if they were connected to a physical COM port.

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

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Specifications

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		
	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	$\leq$ (-) 32 dBm	$\leq$ (-) 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)

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	Serial Port, Ethernet Link, Speed
Switches	Reset Button
Dimensions	VESR4x4:1.8 x 4.4 x 6.75 in (4.57 x 12.2 x 17.1 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	
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

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	
	NEMA TS2	
	Shock	IEC 600068-2-27
	Vibration	IEC 600068-2-6

PRODUCT INFORMATION

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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

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

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Mechanical Diagram

1.378 / 35.00

6.750 / 171.45

7.357 / 186.88 (2X)

7.931 / 201.45

A

A

.040 / 1.02

1.000 / 25.40

4.424 / 12.37

1.800 / 45.73
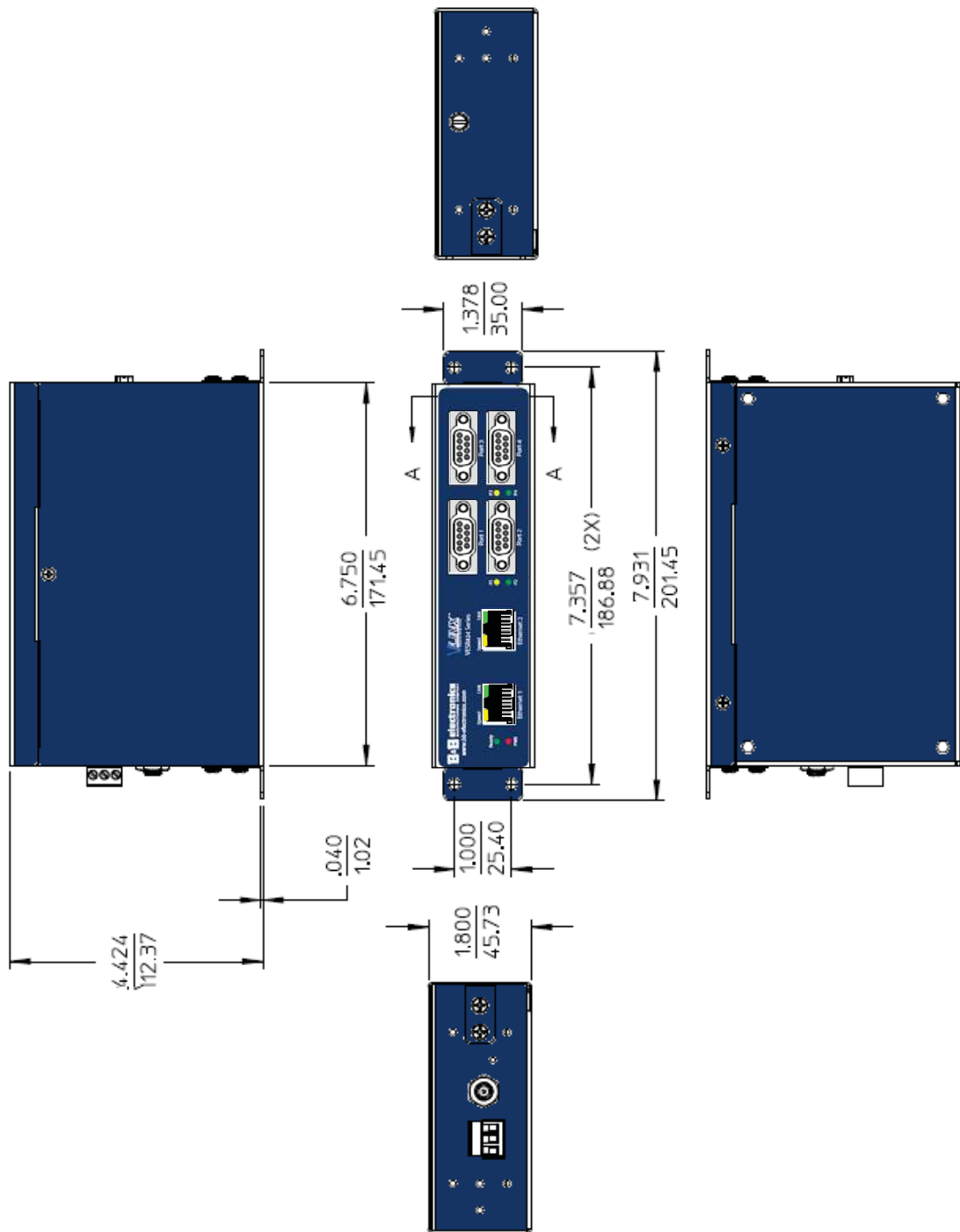
Dimensional Diagram of a VESR424 Serial Server (dimensions in inches & millimeters)

PRODUCT INFORMATION