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B&B Electronics VESR414D

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Datasheet of VESR414D - ETHERNET TO SERIAL SERVER 4PORT Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

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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.

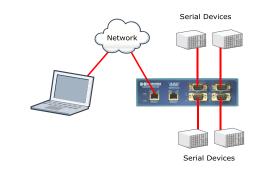
Fiber Optic Ethernet Ports - Choose a serial server with fiber optic Ethernet ports when the application requires long distance runs or high RFI/EMI noise is present. Many applications require a high level of noise immunity and fiber eliminates this problem between devices. Fiber optic connections far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



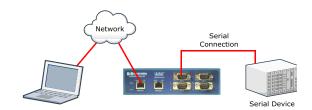
Direct IP Mode

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



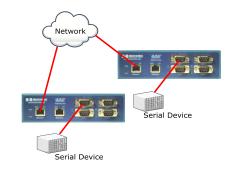
Virtual COM Mode

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

Specifications						
	Ser	ial Technology				
RS-232 (DB9)	TD, RD, DTR, DSR, RTS, CTS, DCI					
RS232 (terminal block)	TD, RD, RTS, CTS) plus Signal Grou	ınd				
RS-485 2-Wire	Data A(-), Data B(+), GND					
RS-422/485 4-Wire	TDA(-), TDB(+), RDA(-), RDB(+), GN	1D				
Serial Connector	DB9M or Removable Terminal Block					
Data Rate		3				
Dala Rale	Up to 230.4 Kbps	N. C. T I I				
		Optic Technology				
	VESR424x-Mx VESR4	24-Sx				
Type / Wavelength	Multi-mode / 1310 nm Single-	mode / 1310 nm				
Output Power	(-)19 to (-) 14 dBm (-) 15 to	o (-) 8 dBm				
Receive Sensitivity	≦ (-) 32 dBm ≦ (-) 3	2 dBm				
Cable	62.5 / 125 µm 9 / 125					
Connector	SC or ST SC or S	•				
Range	1.2 miles (2 km) 12.4 m	iles (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					
	VESR4x4:1.8 x 4.4 x 6.75 in (4.57 x	12 2 x 17 1				
Dimensions	cm)	12.2 X 11.1				
Enclosure	35mm DIN mount, Metal, IP 30					
Environmental						
Operating Temp	-40 to 80°C (-40 to 176° F)	TVII O'IIIIOITEUI				
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			
	Networl	c Communications	· ·			
LAN	10/100 Mbps Auto-detecting, 10Bas	eT or 100BaseTX				
	, , , , , , , , , , , , , , , , , , , ,	ysical Layer Standards				
Ethernet		•				
Ethernet IEEE 802.3 auto detecting & auto MDI/MDX, 10BaseT and 100Base TX Protocols						
Protocols	TCP, IPv4, UDP, ARP, HTTP 1.0, IC					
		JULI /I ING, DITCI /BOOTI				
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					
Timwaro opgrado	-	-through Port (VESR424)				
Standards	IEEE 802.3, 802.3u, 802.3x	anoagiii oit (+ Loit+2+)				
		unlaw non blooking flow control				
Processing Type	Store and Forward with 802.3x full d					
Flow Control	IEEE 802.3x flow control, back press					
	•	juration Software				
OS Compatibility		Server (32/64 bit), Vista (32/64 bit), 2008	8 Server (32/64 bit), Windows 7			
 	(32/64 bit)	Contiliontions 12-5-1				
		Certifications / Safety				
Compliance	FCC Part 15 Class A,					
Compliance	CE NEMA TS2					
	NEMA TS2	IEC 600069 2 27				
	Shock	IEC 600068-2-27				
	Vibration	IEC 600068-2-6				





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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

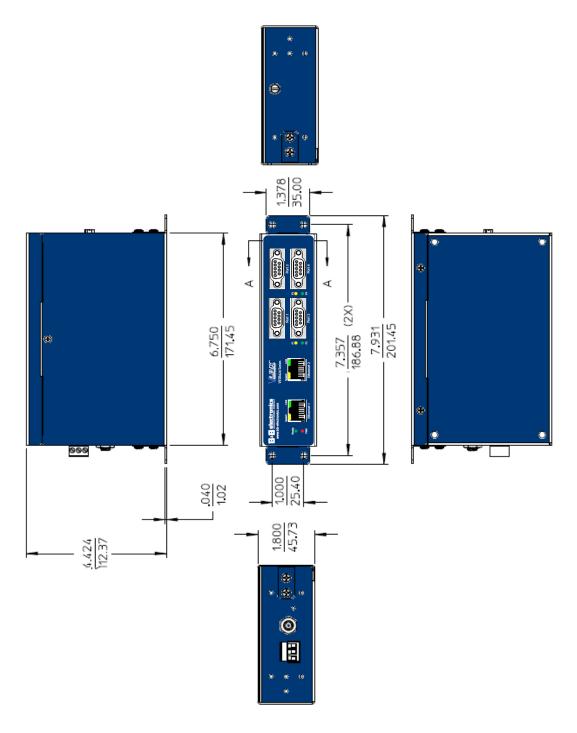


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Mechanical Diagram



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

