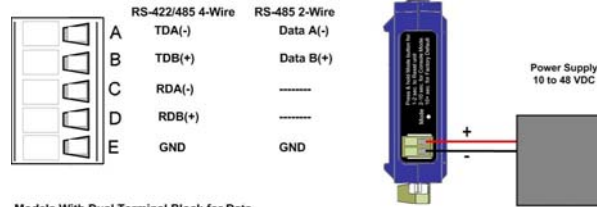


Quick Start Guide

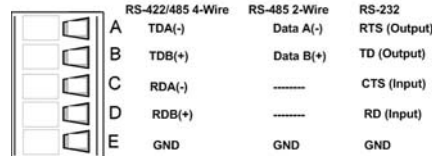
Vlinx VESR9xx Serial



Models with Single Terminal Block for Data
(See Manual for DB9 Pins)



Models With Dual Terminal Block for Data



1

Check for All Required Hardware

- ☐ Vlinx VESR9xx module
- ☐ This Quick Start Guide
- ☐ CD with Vlinx Manager s/w and manuals
- ☐ Network cable (not included)
- ☐ Serial cable(s) (not included)
- ☐ 10 to 48V DC (6.0W) Power Supply (not included)

2

Install the Hardware

- ☐ Connect a 10 to 48 VDC (58 VDC Max) power supply (6.0 W required).
- ☐ Connect the network cable from the serial server to a network drop using a standard network cable.
- ☐ Connect the serial device(s):
 - o RS-232 with DB9: straight-through for DCE device, null modem for DTE device
 - o RS-232/422/485 with terminal blocks: see Appendix D for pinouts

UL Installation Information

- One Conductor Per Terminal
- Use Copper Wire Only
- Wire Size: 28 to 16 AWG
- Tightening Torque: 5 KG-CM
- Wire Temperature Rating: 105 C Minimum (Sized for 60 C Ampacity)
- 80 C Maximum Surrounding Ambient Air Temperature

SUITABLE FOR USE IN CLASS 1, DIVISION 2 GROUPS A, B, C, AND D HAZARDOUS LOCATIONS, OR NONHAZARDOUS LOCATIONS ONLY.

WARNING – EXPLOSION HAZARD – SUBSTITUTION OF ANY COMPONENT MAY IMPAIR SUITABILITY FOR CLASS 1, DIVISION 2.

3

LED Status

LED	STATUS
Ready	Blinks if system is operating correctly
Port 1	On indicates serial port open, blinks when data present on serial port
Port 2	Same as Port 1 (Present on 2 port units only)
Link	On indicates Ethernet operating in 100BaseTX, blinks when data present on Ethernet link

4

Mode Switch

Hold in Mode switch for...	Result
0 to 2 seconds	Initiates a Hardware Reset
2 to 10 seconds	Enters Console Mode
More than 10 seconds	Resets to Factory Defaults

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Install Vlinx Manager Software

- ☐ Insert the included CD and it should autostart
- ☐ Follow the prompts to install the Vlinx Manager software.

Note: Be sure you have administrative rights & disable firewalls.

6

Setup Vlinx Manager Software

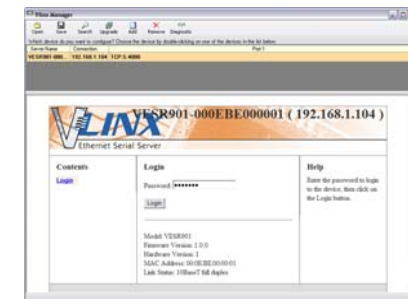
- ☐ Open Vlinx Manager: click Start→Programs→B&B Electronics→Vlinx→Vlinx Manager→VESR Serial Server
- ☐ The Discovery page opens



- ☐ To configure via the network, select Network.
- ☐ If you know the IP address, select *The device is at this address*, and type in the address. If not, select *I don't know the IP address of the device*.
- ☐ Click Connect.

OR...Setup the Web Interface

- ☐ Open a browser and type the IP address of the serial server in the Address Bar.
- ☐ When the serial server is found, the Configuration window appears.



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Login

- ❑ Click Login. (Password is blank from factory)
- ❑ The General page appears.



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Setup the Port Network Parameters

- ❑ Click **Port 1 Network** to open the Port Network Parameters page.
- ❑ Select the type of network protocol you want to use: TCP, UDP, VCOM or Paired Mode.
- ❑ If you select TCP, select whether the serial server will operate as a Client or Server, then configure the required IP address, port numbers and other related parameters.
- ❑ If you select UDP, configure the IP addresses, ports and other related parameters for the devices you want to receive from and send to.
- ❑ If you want the serial server to act as a virtual communications port for a computer, select VCOM. This allows your computer to connect to a serial device on the network as if it were connected to a physical COM port.
- ❑ If you want the serial server to operate in Paired mode with another serial server, select Paired, then configure it as a client or server and set up the IP address, port numbers and other related parameters (similar to setting up TCP).

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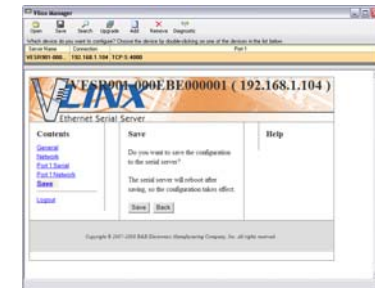
Setup Advanced Parameters

- ❑ If you want to set up Advanced parameters, click **Advanced** on the Port Network Parameters page.
- ❑ If necessary for your application, select *I want to control when connections are forced closed*, then set up the Network Watchdog and Serial Watchdog as required.
- ❑ If necessary for your application, select *I want to control data packets are sent over the network*, then set up the Character Count, Forced Transmit, Intercharacter Timeout, Delimiters and Delimiter Removal as required.
- ❑ Click **Next**.

12

Save and Logout

- ❑ If you have completed the configuration, click **Save** to save the configuration to the serial server.
- ❑ To Logout, click the **Logout** button.



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To Test and Verify Operation

- ❑ Set up serial server as a TCP Server on serial port 1.
- ❑ Set serial port to RS-232 on serial port 1.
- ❑ Set to 9600 8-N-1 on serial port 1.
- ❑ Loopback serial port 1 by connecting TD to RD.
- ❑ Open a DOS window and type "telnet x.x.x.x.yyyy" where x.x.x.x is the IP address of the serial server and yyyy is the port number of the serial port.
- ❑ Type characters on the keyboard. The characters should appear in the window. If not, double check your settings.

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Setup the Network

- ❑ The serial server is set at the factory to receive an IP assignment from a DHCP Server. If a DHCP server is not available on your network, it will default to **169.254.102.39**.
- ❑ If this address does not work with your PC, change your network settings to:
 - IP Address = 169.254.102.1
 - Subnet Mask = 255.255.255.0
 - Default Gateway = 169.254.102.100
- ❑ If you need to use different settings, refer to Chapter 4 of the Users Manual for instructions.

9

Setup the Serial Port Parameters

- ❑ Click **Port 1 Serial** to open the Serial Port Parameters page. Select the type of serial connection between the serial server and the serial device. (RS-232, RS-422, RS-485 2-wire, or RS-485 4-wire)
- ❑ Select the Baud Rate, Data Bits, Stop Bits, Parity and Flow Control needed to communicate with the serial device.
- ❑ If your serial server is 2 port, select the next port in the Description box, then repeat the previous steps.
- ❑ Click **Next**.