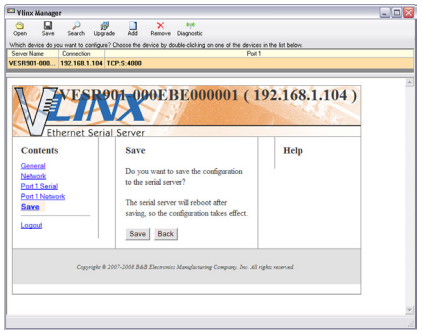
5. If you want the serial server to act as a virtual communications port for a computer, select VCOM. This allows your computer to connect to a serial device on the network as if it were connected to a physical COM port.
6. If you want the serial server to operate in Paired mode with another serial server, 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).

10 Set Up Advanced Parameters

1. If you want to set up Advanced parameters, click **Advanced** on the Port Network Parameters page.
2. 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."*
3. 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."*
4. Click **Next**.

11 Save And Log Out

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



12 To Test & Verify Operation

1. Set up serial server as a TCP Server on serial port 1.
2. Set serial port to RS-232 on serial port 1.
3. Set to 9600 8-N-1 on serial port 1.
4. Loopback serial port 1 by connecting TD to RD.
5. 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.
6. Type characters on the keyboard. The characters should appear in the window. If not, double check your settings.

Document Number: 710-10572-00_r2_VESR9xx_2118qsg

13 UL Class 1 / Division 2

SUITABLE FOR USE IN CLASS I, DIVISION 2, GROUPS A, B, C AND D HAZARDOUS LOCATIONS, OR NONHAZARDOUS LOCATIONS ONLY.
CONVENANT À L'EMPLOI DANS LES SITES DANGEREUX DE CLASSE I, DIVISION 2, GROUPES A, B, C ET D, OU DANS LES SITES NON HASARDEUX SEULEMENT

WARNING - EXPLOSION HAZARD - SUBSTITUTION OF ANY COMPONENT MAY IMPAIR SUITABILITY FOR CLASS I, DIVISION 2.
ATTENTION - DANGER D'EXPLOSION - LA SUBSTITUTION DE COMPOSANTS PEUT ENTRAÎNER UNE ADÉQUATION À LA CLASSE I, DIVISION 2.

The unit is to be powered by a Class 2 power source, of a grounded-type, when power is applied to the barrel connector.
L'unité doit être alimentée par une source d'alimentation de classe 2, de type mise à la terre, lorsque le connecteur du canon est alimenté.

THE POWER CABLE MUST HAVE A MINIMUM RATING OF 80°C.
LE CÂBLE D'ALIMENTATION DOIT AVOIR UNE INDICATION MINIMALE DE 80 °C.

Power cannot be applied to both the terminal block and barrel connectors simultaneously.
L'alimentation ne peut pas être appliquée simultanément aux connecteurs du bornier et du barillet.

The use of coaxial cable for the field wiring shall be in accordance with Class 2/Class 3 requirements in Article 725 of the NEC.
L'utilisation d'un câble coaxial pour le câblage sur site doit être conforme aux exigences de classe 2 / classe 3 de l'article 725 du NEC.

One Conductor Per Terminal
Un conducteur par borne

Use Copper Wire Only
Utiliser uniquement du fil de cuivre

Wire Size: 28 to 16 AWG
Taille de fil: 28 à 16 AWG

Tightening Torque: 5 KG-CM
Couple de serrage: 5 KG-CM

Wire Temperature Rating: 105 °C Minimum (Sized for 60 °C Ampacity)
Indice de température du fil: 105 °C Minimum (calibré pour 60 °C)

80 °C Maximum Surrounding Ambient Air Temperature
80 °C Température ambiante ambiante maximale

B+B SmartWorx
Powered by ADVANTECH

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1 (888) 948-2248 | Europe: +353 91 792444
www.advantech-bb.com | E-mail: support@advantech-bb.com

QUICK START GUIDE

VESR900 Series

VESR9xx Ethernet Serial Server

Before you begin, be sure you have the following:

+ Vlinx VESR9xx Module
+ CD with Vlinx Manager S/W and Manuals
+ This Quick Start Guide
+ Network Cable (not included)
+ Serial Cable/s (not included)
+ 10 to 48VDC (6.0W) Power Supply (not included)

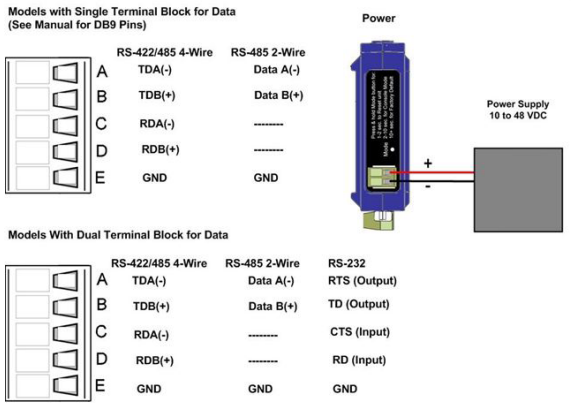
B+B SmartWorx
Powered by ADVANTECH

Fast and easy on the web: ***www.advantech-bb.com***

1 Install the Hardware

1. Connect a 10-48 VDC (58VDC max.) power supply (6W required).
2. Connect the network cable from the serial server to a network drop using a standard network cable.
3. Connect the serial device(s):
   - RS-232 with DB9: straight-through for DCE device, null modem for DTE device.
   - RS-232/422/485 with terminal blocks. See Appendix D in user manual for pinouts.

UL Installation - See Step #13 for more information.



2 LED Status

LED	STATUS
Ready	Blinks if system is operating correctly.
Port 1	ON indicates serial port open; blinks when data is 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 is present on Ethernet link.

3 Mode Switch

HOLD MODE SWITCH IN for...	RESULT
0 to 2 seconds	Initiates a Hardware Reset.
2 to 10 seconds	Enters Console Mode.
Over 10 seconds	Reset to Factory Defaults.

4 Install Vlinx Manager Software

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

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

5 Set Up Vlinx Manager Software

1. Open Vlinx Manager, by clicking:

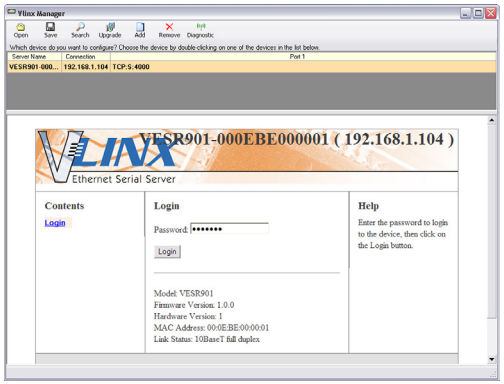
   Start > Programs > B&B Electronics > Vlinx > Vlinx Manager > VESR Serial Server

The Discovery page opens.

2. To configure via the network, select **Network**.
3. 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."*
4. Click **Connect**.

OR...Set Up the Web Interface:

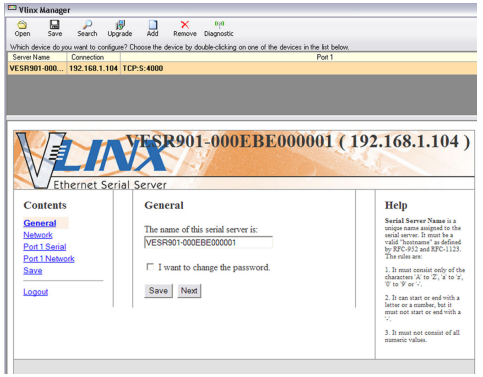
1. Open a browser and type the IP address of the serial server in the Address Bar.
2. When the serial server is found, the Configuration window appears.



6 Log In

1. Click **Login**. (Password is blank from factory.)

The General page appears.



7 Set Up 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

Note: If you need different settings, refer to User Manual, Chapter 4.

8 Set Up Serial Port Parameters

1. 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).
2. Select the Baud Rate, Data Bits, Stop Bits, Parity and Flow Control needed to communicate with the serial device.
3. If your serial server is 2 port, select the next port in the description box, then repeat the previous steps.
4. Click **Next**.

9 Set Up Port Network Parameters

1. Click **Port 1 Network** to open the Port Network Parameters page.
2. Select the type of network protocol you want to use: TCP, UDP, VCOM or Paired Mode.
3. 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.
4. If you select UDP, configure the IP addresses, ports and other related parameters for the devices you want to receive from and send to.