6 Troubleshooting

The primary check for correct operation is the device LEDs.

For advanced set up information, see the "HELP" section on the right hand side of each page within the Vlinx Manager.

Select Diagnostic for a check of communications status with attached VESP211x device, and then select the device for which the communications check is desired. A report of reply times and ping statistics is generated and can be saved.

Note: you can also send your configuration files to B+B SmartWorx Technical Support for review.

| Reset Mode Switch | | | | |
|---|--|--|--|--|
| Mode Switch Action | Result | | | |
| Press and Hold in for 0-2 seconds. | Resets the unit. | | | |
| Press and Hold in for 2-10 seconds. | Puts unit in Console Mode. The Ready LED turns OFF and the Serial LED turn On Solid. | | | |
| Press and Hold in for more than 10 seconds. | Reloads Factory Defaults. Both Serial and Ready LEDs turn On Solid. | | | |

Recommended Accessories Null Modem Crossover Cable – for DTE to DTE connection Model# 232NM9 DIN Rail Mounting Kit – 35mm Model# DRAD35



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Models: VESP211, VESP211-232, VESP211-485

Ultra Compact Ethernet to Serial Servers

Before you begin, make sure you have the following:

- + VESP211x product
- + CD with Software and Manuals
- + Power Supply
- + Additional items, not included:
 - +Ethernet cable(s)
 - +Null modem cable(s)
 - +Mounting accessories kit





| LEDs | | | | |
|----------|-----------------------------------|---------------------------------------|--|--|
| Ready | Blinking | System operating correctly | | |
| | OFF or Solid ON | Not operating correctly or not ready | | |
| Ethernet | ON | Ethernet port is connected | | |
| | Blinking | Data is being transmitted or received | | |
| Serial | ON and "Ready" LED is Blinking | Serial port is available | | |
| | Blinking | Data is being transmitted or received | | |
| | ON but "Ready" LED is OFF | Device is in Console Mode | | |

1 Set Up Hardware

- 1. Connect RJ45 first. DHCP is enabled by default.
- 2. Power the device.
- Connect the Serial Device.
 RS-232 with DB9: straight-through for DCE device.
 Null modem for DTE device.
 RS-422/485 with terminal blocks.

2 Install/Setup

- 1. Use included CD to install Vlinx Serial Server Manager. If Autorun does not start, go to "My Computer" and select the CD drive. You will see a Vlinx VESR icon. Double-click it to launch the installation.
- 2. Click "Login". Password is blank from factory. No password is necessary to operate the VESR unit. The Configuration/General page appears.

3 Set Up Network

"I want DHCP" is preselected to set up the network using dynamic IP addressing. The gateway is set up at the factory to receive an IP assignment from a DHCP Server.

- 1. If a DHCP Server is not available on your network, it will default to 169.254.102.39.
- 2. If a DHCP server is not available and the default address does not work on your PC, change your PC network settings to IP Address: 169.254.102.1, Subnet Mask: 255.255.0.0, Default Gateway: 169.254.102.100.

4 Setting Up Your Device

1. Port Settings: Four configurations are available: TCP, UDP, VCOM Mode and Paired Mode. TCP is the most common choice, and will be briefly described below.

(Paired Mode uses the same settings as TCP.) Detailed information about UDP and VCOM Mode may be found in the user's manual.

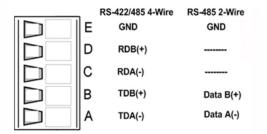
- 2. TCP Port Settings:
- Choose "TCP".
- Choose either "server" or "client."
- Enter the port number on which you want to "wait for connections."
- Enter the maximum number of desired connections.
- Specify who is permitted to connect.

Depending on the Mode selected, there may be advanced functions available. Option is grayed out for VCom Mode.

5 Set Up Serial Port

Note: Serial settings are grayed out when VCom Mode is selected.

- Change the description of the serial port if needed.
- 2. Set the mode to RS-232, RS-422 (4-wire), RS-485 (2-wire) or RS-485 (4-wire).
- 3. Set the Baud Rate to control the speed of the port. Valid rates range between 75 and 230.4k bits per second.
- 4. Set Data Bits. Options are from 5 to 8 Data Bits. 8 is most common and is the default.
- 5. Set Stop Bits. Stop Bits controls the number of bits for end of character.
- 6. Parity controls the error checking mode, with options of: No Parity, Odd, Even, Mark and Space.
- 7. "Flow Control" options are Hardware or Software or None. Hardware is used for RS-232 only.





| RS-485 DB9 Male Pinout | | | | | | |
|------------------------|--------|-----------------------|----------------------|------------------|--|--|
| DB-9M Pin | RS-232 | Direction (RS-232) | RS-422/485 4-wire | RS-485 2-wire | | |
| 1 | DCD | Input | RDA (-) | _ | | |
| 2 | RD | Input | RDB (+) | _ | | |
| 3 | TC | Output | TDB (+) | Data B (+) | | |
| 4 | DTR | Output | TDA (-) | Data A (-) | | |
| 5 | GND | Output | GND | GND | | |
| 6 | DSR | Input | _ | - | | |
| 7 | RTS | Output | _ | _ | | |
| 8 | CTS | Input | _ | _ | | |
| 9 | _ | _ | - | _ | | |