

Quick Start Guide

Model: VESP211



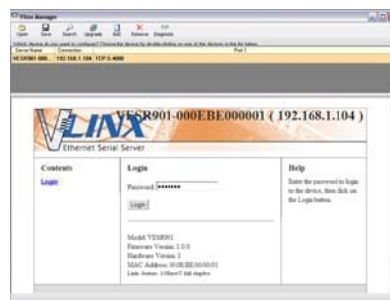
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Install/Run Vlinx Manager

- **Install Vlinx Manager**
 - Insert the Vlinx manager software CD into the computer. The install program should automatically run.
 - Follow the prompts to install the software
- **Run Vlinx Manager:**
 - Click Start>Programs>B&B Electronics>Vlinx>VlinxSerial Server Manager>Serial Server Manager
 - The Discovery page opens



- 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 on the Connect button. Vlinx Manager will search for any serial servers on the network.



- **Login to the Serial Server**
 - Select the serial server from the list.
 - Login to the device. (factory password is blank. Just click Login). The General setup page will appear.

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Configure the Serial Server

- **General Setup**
 - Enter a name for the serial server. This name will show up in the serial server list in Vlinx Manager.
 - Change the login password if desired.
- **Enter The Network Settings**
 - The serial server is configured at the factory to get an IP address automatically (DHCP). If a DHCP server is not available on your network, it will default to 169.254.102.39.
 - If a static IP is desired, uncheck the box "I want DHCP to setup the network". Enter the static IP, Subnet Mask, and default Gateway information.
- **Setup the Serial Port Communications**
 - Select the communications mode – RS-232, RS-422, RS-485 (2-wire), RS-485 (4-wire)
 - Select the communications parameters (Baud Rate, Data Bits, Stop Bits, Parity and Flow Control) for your serial device
- **Setup the Serial Port Network Protocol**
 - Select the type of network protocol you want to use: TCP, UDP, VCOM or Paired Mode.
 - **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.
 - **UDP:** configure the IP addresses, ports and other related parameters for the devices you want to receive data from and send data to.
 - **VCOM:** configure the serial port to act as a virtual COM port on the PC. You must also add the VCOM driver to the PC using the "Add VCOM" button in Vlinx Manager.
 - **Paired Mode:** configure the serial server to be paired with another serial server, configure it as either the client or the server in the pair and set up the IP address, port numbers, etc.
 - **Setup Advanced parameters** as necessary for your application Click on the "Advanced" button to setup serial and network timers and packet delimiters.
- **Save your configuration to the serial server**
 - The device will re-boot after saving the settings.

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Install/Connect the Hardware

- Unpack your serial server from the shipping container. Verify that all included items are present.
 - VlinxVESP211 module
 - CD with Vlinx Manager software and user's manual
 - AC power supply
 - This quickstart guide
- Mount the serial server using the panel mount tabs, or the optional DIN rail mount adapters (model DRAD35)
- Connect the AC power supply (included)
- Connect to the network (using a standard Ethernet cable):
- Connect the serial device (using the appropriate cable for your model):
 - RS-232 with DB9: straight-through for DCE device, null modem for DTE device
 - RS-232/422/485 with terminal blocks

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Test and Verify Operation

- Set up the serial server as a TCP Server.
- Set serial port to RS-232.
- Set to 9600 8-N-1.
- Loopback the serial port by connecting TD to RD.
- Open a command 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.

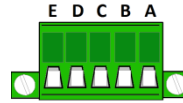
LED Status Indicators

| LED | Color | Status |
|---------------|-------|----------------------------------------------------------------------------------------------------|
| Power / Ready | Green | On = Power connected Flashing Slowly = Normal Operation Flashing Quickly = Device Re-booting |
| Link | Green | On = Ethernet Connected Flashing = Data TX/RX |
| Serial Port | Green | On = Serial Port Open Flashing = Data TX/RX |

Reset Switch Operation

| Hold in Reset (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 |

Serial Port Pinout – Terminal Blk



| Terminal | RS-422 | RS-485 |
|----------|--------|------------|
| A | TDA(-) | Data A (-) |
| B | TDB(+) | Data B (+) |
| C | RDA(-) | --- |
| D | RDB(+) | --- |
| E | GND | GND |

Serial Port Pinout - DB-9



| Terminal | RS-232 | RS-422/RS-485 4-wire | RS-485 2-wire |
|----------|--------|----------------------|---------------|
| 1 | DCD | RDA(-) | --- |
| 2 | RD | RDB(+) | --- |
| 3 | TD | TDB (+) | Data B (+) |
| 4 | DTR | TDA (-) | Data A (-) |
| 5 | GND | GND | GND |
| 6 | DSR | --- | --- |
| 7 | RTS | --- | --- |
| 8 | CTS | --- | --- |
| 9 | --- | --- | --- |

Specifications

| | | |
|-----------------|------------------------------------------|---------------------------------------------------------|
| Power Supply | Voltage Requirements | 10 to 30 VDC |
| | Power Consumption | 2.5 watts maximum |
| Environment | Operating Temperature | -40 to 80 °C (-40 to 176 °F) |
| | Storage Temperature | -40 to 85 °C (-40 to 185 °F) |
| | Operating Humidity | 10 to 95% non-condensing |
| Certifications | Maximum Ambient Surrounding Air Temp | 80 °C |
| | FCC | Part 15 Class A |
| | CE | |
| Enclosure | NEMA TS2 | |
| | Rating | IP30 |
| | Mounting Dimensions (VESPA211) main body | Panel Mount 2.1 x 3.1 x 0.87 in (5.2 x 7.9 x 2.2 cm) |
| Terminal Blocks | Wire Size | 28 to 16 AWG |
| | Wire Type | Copper Wire Only |
| | Tightening Torque | 5 KG-CM |
| Note: | Wire Temp Rating | 105 °C Minimum |
| | | Sized for 60 °C Ampacity |
| | | One Conductor Per Terminal |

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