

Quick Start Guide

Vlinx™ ESP211-232



Front Label and DB9 Connector



Back Label and Power/RJ45 Connectors

1. Package Checklist

The Vlinx™ ESP211-232 package includes:

- ✓ Vlinx™ Mini Serial Server
- ✓ Power Adapter
- ✓ Quick Start Guide
- ✓ CD-ROM Disk (Documentation and software)

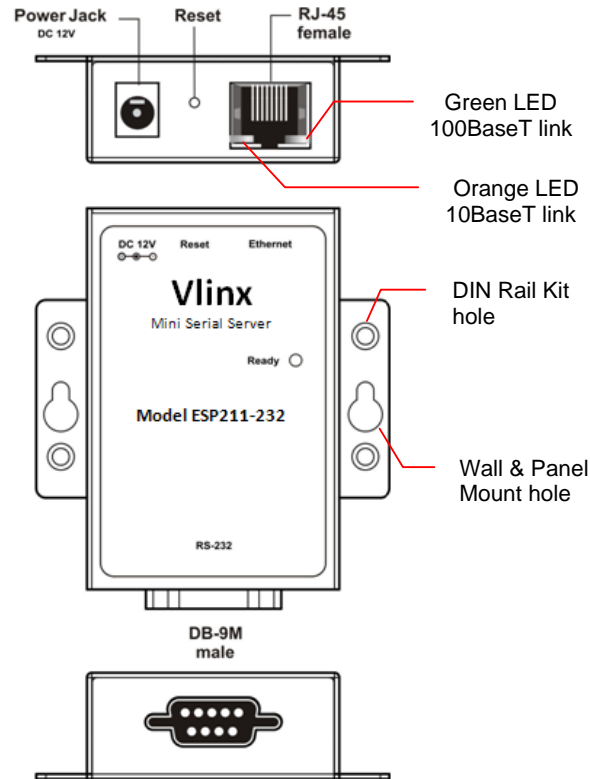
Not included:

- ✓ Ethernet cable
- ✓ Serial cable
- ✓ Mounting screws
- ✓ DIN rail kit (B&B P/N - DRAD35)
- ✓ Power surge protection
- ✓ Serial optical isolation



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 Documentation Number: ESP211-232-xx-2909qsg

2. Panel Layout



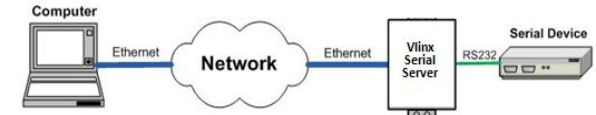
3. LED Indicators

LED	Indication
Ready	Green -- blinks ON or OFF each second when system is ready
LEDs on RJ45 connectors	Ethernet Link/Act/10/100Mbps: Orange -- 10BaseT Ethernet connection established Green -- 100BaseT Ethernet connection established <i>Link Ready: LED glows steady</i> <i>Data activity: LED flashes</i>

4. Hardware Setup

1. Connect the Server to the network or host computer using an Ethernet cable.
2. Connect the Server to the RS-232 port on the serial device. Note: If the serial device is configured as a DCE, use a straight-through serial cable. If the serial device is configured as a DTE, use a crossover (null modem) cable
3. Apply power to the Server.

Note: The Reset button can be used to replicate power cycling. Gently depress the Reset button with a small plastic tool.

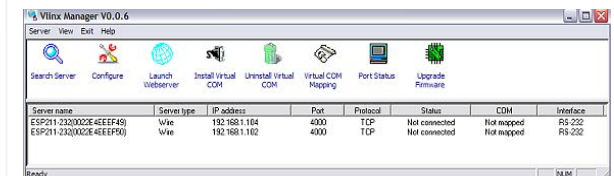


5. Software Configuration

A: Direct IP Mode Setup (Default Mode):

Using the CD included with the Serial Server, install the **Vlinx™ Manager** software on the host computer. The software supports Windows 2000, 2003 Server, XP and Vista.

1. Open the **Vlinx™ Manager** software. It will automatically search for any reachable Vlinx™ Serial Server devices. A list of all Serial Servers connected to the LAN will appear in the Serial Server List window.



2. Double click the desired Server on the list and it will bring up the **Configurations** screens. You can change the server name to your liking. Note the IP address of your Server, if you choose to test the Server as described in Section 6.

NOTE: If Serial devices are not found, then the DHCP process has failed and the Server and PC are on different side of your router. First relocate Server to the same side of the router as the PC. Then, try to reconfigure host computer subnet to match the Serial Server by selecting 'Disable' option for DHCP. Default subnet is 192.168.0.x (x is anything other than 1), subnet mask is 255.255.255.0

3. Select **Serial Port 1** tab. Configure the **Basic Settings** to match your serial device
4. Leave Port# at default value 4000
5. Advanced Settings offers more configuration flexibility but default values will work fine in most applications.
6. When configuration is complete, hit **Apply** and follow the prompts to restart the **Vlinx™ Manager** software.
7. After the software restarts, double click the server to view the **Configurations** windows again and verify your changes are in effect.



B: Virtual COM Port Mode Setup:

1. Run **Install Virtual COM** from the **Vlinx™ Manager** page.
2. Search for all servers on network. Highlight the IP address and Port for mapping to a COM port. Click **Install** button.
3. Select unused COM port (best practice is COM5 and up) to map to IP address and Port (e.g. TCP Port 4000).
4. Match the settings of your device as in Section A3 above.
5. Click **OK** and follow the on screen prompt to install.



C: Console Mode / Webserver Setup:

The Serial Server can also be configured in **Console Mode** from **Vlinx Manager** or **Webserver**. Refer to the User manual for detailed instructions.

6. Testing Server Operation **(Optional)**

A: Test Direct IP Mode

1. Open a Socket in HyperTerminal or Telnet using the Server's IP address and port 4000.
2. For testing, connect Server to a PC serial port with a null modem cable. If a null modem cable is not available, connect pin 2 to pin 3 on the Server DB9 connector for data loop back.
3. Open a serial emulation program such as HyperTerminal to the COM port and set it for same port settings as you did for the device in section 5.A..
4. With your computer keyboard, type a few characters in the Hyperterminal or Telnet window. When you see the same data appearing as a loop back in the COM port window, the test is successful.

B: Test VCOM Port Mode

1. Open a serial emulation program as in 6.A.1 above.
2. Open the VCOM created in Section 5.B.
3. Open the unit's hardware COM port in Section 4.2.
4. Type some characters in VCOM window, when these reflect in the COM port window the test is complete.

7. Final Configurations for Deployment

1. Make sure that the Vlinx™ Serial Server is connected to the RS-232 port on the serial device (see section 4). *Remove any connection made for testing (Section 6) or Console mode (Section 5.C)*
2. Make sure the **Baud Rate**, **Data/Parity/Stop**, and **Flow Control** match configuration of **serial device** connected (section 5).
3. Make sure the **Serial Type** is set to **RS-232**.
4. Enable DHCP to obtain address from server. If static IP addressing method is desired, disable DHCP, set static IP, Netmask and Gateway addresses from Network Administrator.
5. Click **Apply**, then **Restart** and confirm changes.