

Quick Start Guide

Vlinx™ “Mini” Serial Server

ESP211-xxx-xx



Front Label and DB9/Terminal Connector

Back Label and Power/ RJ45 Connectors

1. Package Checklist

The Vlinx™ ESP211-xxx package includes:

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

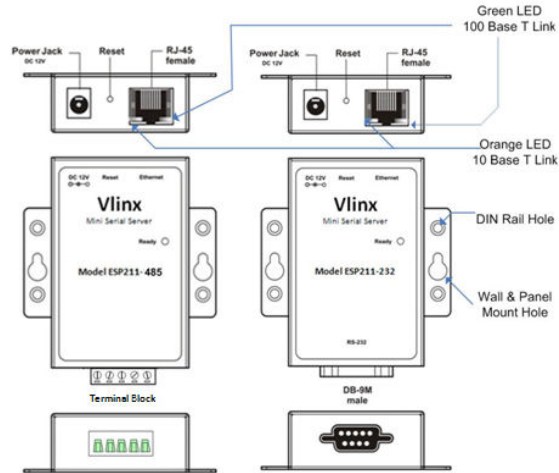
Not included:

- ✓ Ethernet cable
- ✓ Serial cable [DB9/
- ✓ Mounting screws
- ✓ DIN rail kit (**B&B P/N - DRAD35**)
- ✓ Power surge protection
- ✓ Serial optical isolation



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 Documentation Number: ESP211-xxx-xx-4809qsg

2. Panel Layout

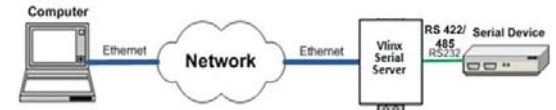


3. LED Indicators on RJ45 connector

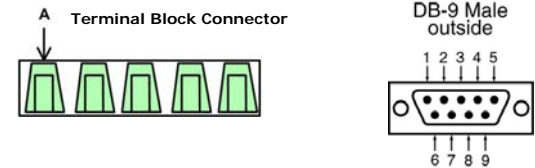
LED	Indication
Ready	Green -- blinks when system is ready
LEDs on RJ45 connectors	Ethernet Link/Act/10/100Mbps: Orange -- 10BaseT Ethernet connection established Green -- 100BaseT Ethernet connection established Link Ready: LED glows steady Data activity: LED flashes

4. Hardware Setup

1. Connect the Server to the network or host computer using an Ethernet cable.
2. Connect the Server to the RS-232/422/485 port on the serial device. Note: If the RS232 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.
4. As needed:
Reset the unit – press & release reset button <5 s
Factory default – press & release reset button >5 s



5. Pin Configurations



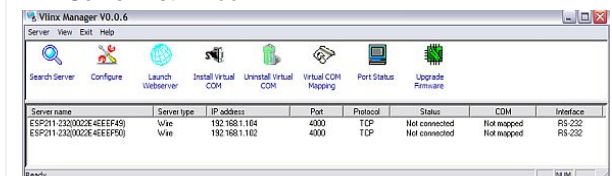
Terminal Connector			DB9			
TR Pin	4 wire RS-422/485	2 wire RS-485	Pin	RS-232	RS-422/485 4W	RS-485 2W
			1	DCD[In]	RDA (-)	DATA A (-)
A	RDA (-)	Data A(-)	2	RXD[In]	RDB (+)	DATA B (+)
B	RDB (+)	Data B(+)	3	TXD[Out]	TDB (+)	N/C
C	TDB (+)	N/C	4	DTR[Out]	TDA (-)	N/C
D	TDA (-)	N/C	5	GND	GND	GND
E	GND	GND	6	DSR[In]	N/C	N/C
			7	RTS[Out]	N/C	N/C
			8	CTS[In]	N/C	N/C
			9	RI[In]	N/C	N/C

6. Software Configuration

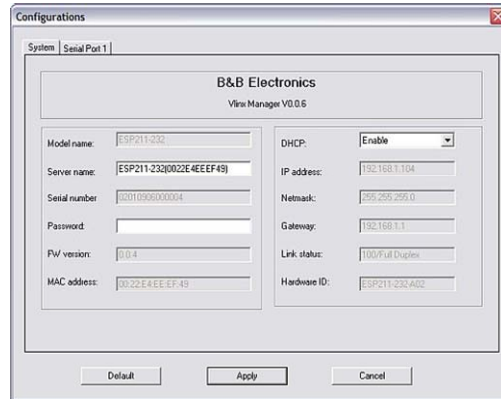
A: Direct IP Mode Setup (Default Mode):

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.

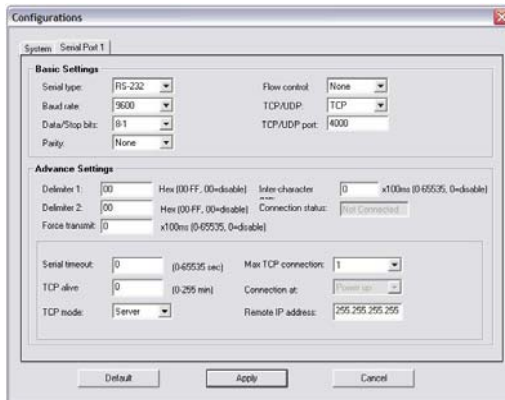
1. Open the **Vlinx™ Manager** software. It will automatically search for any reachable Vlinx™ Serial Server devices. A list of all Serial Servers connected to the LAN will appear in the Serial Server List window.



2. Double click the desired Server on the list to 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 7.



NOTE: If Serial Server is not found, then the DHCP process has failed and the Server and PC are on different subnets on your router. First relocate Server to the same subnet as the PC. Then, 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 with 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.



Note: To reset to factory default settings, use Vlinx™ Manager software "Default" button at bottom of System or Port Configuration screens.

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 6.A.3 above.
5. Click **OK** and follow the screen prompts to install.



C: Console Mode / Webservice Setup:

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

7. 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 6.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 7.A.1 above.
2. Open the VCOM created in Section 6.B.
3. Open the unit's hardware COM port as in Section 4.2.
4. Type some characters in VCOM window, when these reflect in the COM port window the test is complete.

8. Final Configurations for Deployment

1. Make sure that the Vlinx™ Serial Server is connected to the serial port on the serial device (see section 4). *Remove any connection made for testing (Section 7) or Console mode (Section 6.C)*
2. Make sure the **Baud Rate**, **Data/Parity/Stop**, and **Flow Control** match configuration of **serial device** connected (as in section 6.A.3).
3. Make sure **Serial Type** is at **RS-232/422/485** as needed.
4. Enable DHCP to obtain address from server. If static IP addressing is desired, disable DHCP and set static IP, Netmask and Gateway addresses as received from your Network Administrator.
5. Click **Apply**, then **Restart** and confirm changes.