

# Quick Start Guide

## Vlinx Wireless Serial Server



Vlinx ESR411W

### 1. Package Checklist

The Vlinx Wireless Serial Server package includes:

- ✓ The Server unit
- ✓ Quick Start Guide
- ✓ CD-ROM Disk (Documentation and Software)
- ✓ Footpads set
- ✓ DIN Rail Kit

Not included:

- ✓ Power Supply
- ✓ Ethernet cables
- ✓ Serial cables
- ✓ Mounting screws
- ✓ Power surge protection
- ✓ Serial optical isolation

### 2. Both Ethernet and WLAN

1. Only one **interface** (Ethernet or WLAN) is active at a time. **The WLAN is active when the Ethernet cable is disconnected.** To switch between Ethernet and WLAN, connect or disconnect the Ethernet cable to a live network or device, then press reset or cycle power.



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 Documentation Number Vlinx ESR41xW-2909qsg

2. If **Ethernet** is **active**, DHCP is enabled and can't get an IP address from the *DHCP* Server, the interface will be assigned to **192.168.10.1**. If **WLAN** is active instead, interface will be assigned to **192.168.10.2**

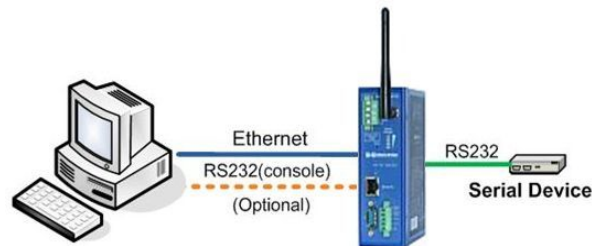
### 3. LED's

LED	Indication
<b>PWR</b>	Red/Steady-Power applied
<b>RDY</b>	<b>Green</b> /Blinks-system ready
<b>CONS</b>	<b>Green</b> /Steady-Port1 Console mode
<b>WLAN</b>	<b>Green</b> /Steady-WLAN active
<b>Signal Bars</b>	<b>Green</b> /Rises with signal strength
<b>P(Port) 1-4</b>	<b>Green/Off</b> : Closed, <b>ON</b> : Active, <b>Blinks</b> : Data traffic
<b>LEDs on RJ45 connector</b>	<b>Orange</b> -- 10BaseT connection <b>Green</b> -- 100BaseT connection <b>ON</b> : No data <b>Blinks</b> : Data flow

### 3. Ethernet (Wired) Set Up

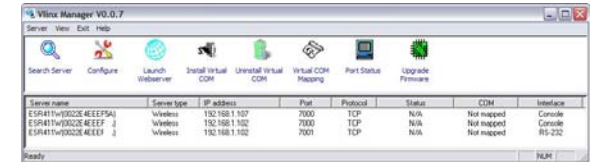
#### **A: Installation and Setup, Socket Mode (Default Mode):**

1. Install the Vlinx Manager software on the host system.
2. Connect the Server to the Host PC with a crossover Ethernet cable.
3. Connect the Server serial port to the serial device. For DCE, use a straight through cable. For DTE, use a crossover (null modem cable)



4. Reboot the Server by pressing Reset or cycle power. After startup (about 35 seconds) the RDY LED will start blinking.

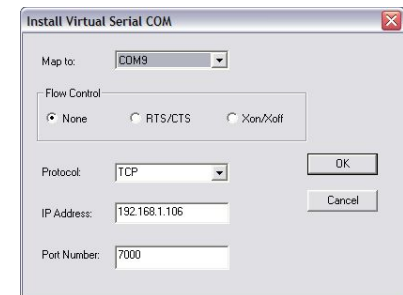
5. Open the **Vlinx Manager** software. It will automatically search for reachable Vlinx Serial Server devices. A list of all Serial Servers connected to the LAN will appear in the Vlinx Serial Server List window.



6. Double clicking the selected Server on the Server list will bring up web page. Use **root** as both **Username** and **Password** to access web page.
7. **Note:** If Server(s) are not found, then host computer and Server may not be on the same subnet. Reconfigure host computer subnet to match Server. Default subnet at start is 192.168.0.x as listed on Server side panel (x is anything other than 1), subnet mask is 255.255.255.0

#### **B: Install Virtual COM Driver (VCOM Mode):**

1. Open the **Vlinx Manager** software. Highlight the Server in the server list found by the Vlinx Manager.
2. Click on the **Install Virtual COM** icon from the menu. The following window opens:



3. Select an unused COM port (best practice is COM5 and up) to map to the IP address and Port (default is Port 7000). Select desired Flow Control and protocol (TCP/UDP)

#### **C: Test Data Communications:**

1. Run the **terminal emulation program** (such as PuTTY). Select COM port (e.g. Port 5 or above).

[continued back page]

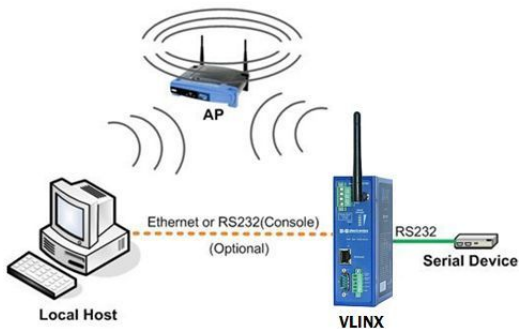
[continued from **Test Communications, first page**]

- Set Serial Type, Baud Rate, Data/Parity/Stop, and Flow Control **to** match the configuration of the serial device connected to the Server serial port.



- Enter Console mode from Vlinx™ web server.
- Press space **bar**, check **Properties** page to validate the Server is working.

## 4. WLAN (Wireless) Set Up



### A: Installation and Setup, Socket Mode (Default mode):

- Install the Vlinx Manager software on the host computer.
- Connect the Server serial Port to the serial device. For DCE, use a straight through cable. For DTE, use a crossover (null modem cable)
- Connect Ethernet cable or serial null modem cable between host computer and Server (use Serial Port 1 on Server for serial connection).

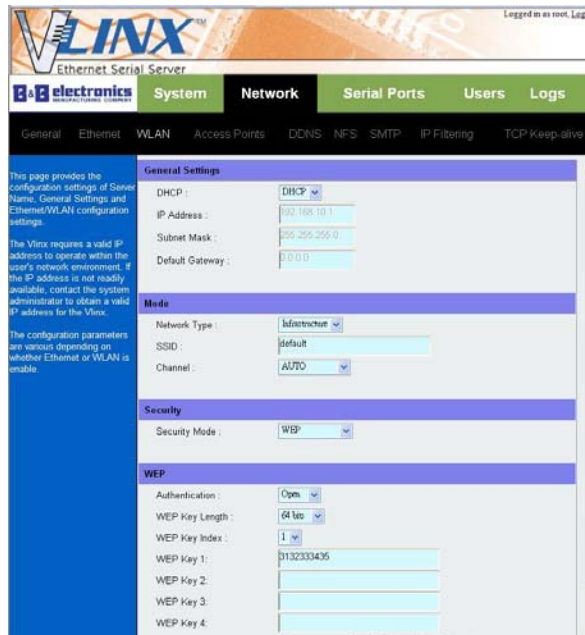
- Reboot the Server (push Reset button cycle power). After startup the RDY LED starts blinking .
- Set up the wireless network configuration for your Host PC connection to AP (wireless Access Point).
- Set up the wireless network configuration for your Serial Server connection to AP.

### Configure the WLAN settings via Ethernet port ---

- Connect the Server to a Host PC via a crossover Ethernet cable.
- Reboot the Server (push Reset button or cycle power).
- Log in the Server through **Launch Webserver** icon

### Configure the WLAN settings via Serial Console (use Serial Port 1).

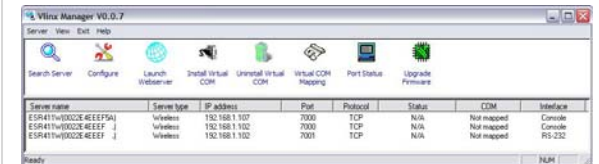
- Run a terminal emulation program (such as HyperTerminal or PuTTY) with the following settings: 115200, 8-N-1.
  - Configure the WLAN settings to match your AP's settings (Network Type, SSID, Security Mode, Key, etc). A typical setting example is illustrated as below:
- Set up the wireless network configuration for your Server connection to match the AP configuration:



**Note 1:** Please make sure Host PC and Serial Server are in the same subnet. *For wider access set DHCP to Enable at "Network Settings" on web page.*

**Note 2:** After configuration, disconnect the Ethernet (or serial) cable and reboot the Serial Server.

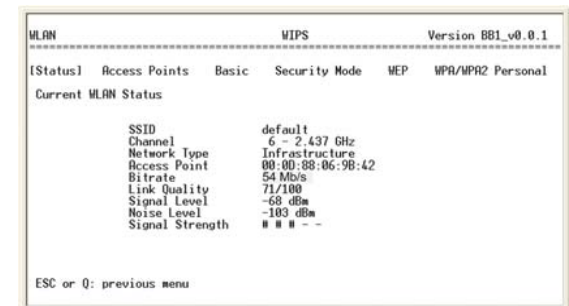
- Open the **Vlinx Manager** software. It will automatically search for reachable Servers. A list of all Servers connected to the LAN will appear in the Server List window.



- Double clicking the selected Server on the server list will bring up the web page.

**Note:** If you cannot see Server appearing on the search server list, correct the wireless network settings to enable the WLAN network connection. You can check out the WLAN settings using the Ethernet port or through Serial port 1 at Console mode.

- Confirm whether the WLAN settings match the AP's. For example, from the console UI, check out the WLAN Status, like screen below.



**B: Install Virtual COM Driver:**  
(Refer to section 2-B, first page)

**C: Test Data Communications:**  
(Refer to section 2-C, first page)