

COMMODORE WI-FI MODEM - QUICK START GUIDE

1) Introduction

The Commodore Wi-Fi Modem is built around two main components: The Arduino-compatible MicroView with built-in OLED screen, and the Roving Networks RN-XV or “Wifly” wireless module. These give you significant flexibility to use it as a straight-forward wireless solution for your Commodore, with optional expandability for standalone use or as a platform for interfacing to the outside world. The Commodore 64, SX-64, 128, and VIC-20 are all supported.

Supports: 802.11 b/g Wi-Fi, DHCP, UDP, DNS, ARP, ICMP, TCP, Telnet, WEP, WPA-PSK (TKIP), and WPA2-PSK (AES), and Hayes emulation.

2) Assembly

- a. MicroView: The Modem is shipped without the MicroView installed, to protect it during shipping. Remove the MicroView from the protective foam, and gently insert it into the MicroView socket (top of screen towards the end of the board.)
- b. Standoffs: Four plastic standoffs are provided, two are recommended for mechanical stability when plugged into a computer. Simply install the standoffs in the holes at the end of the board and secure them with the plastic nuts. The other two standoffs can be used to support the board when used standalone.

3) Installation

- a. Turn off the computer.
- b. Insert the Modem into the User Port, with MicroView screen and Wi-Fi Module on the top side.
- c. Turn on the computer.

You should see some diagnostic messages on the OLED screen, and flashing green and red LEDs. The flashing red LED indicates an error, but this is normal on first powerup as the SSID has not been set yet.

Note! The VIN connector is only required for standalone use, it is **not** required when the Modem is plugged into your computer. Refer to the User’s Guide for details.

4) Configuration and SSID

- a. Run a Terminal program (i.e. Novaterm or CCGMS). By default, the modem is configured with the following parameters: **2400 Baud, No Parity, 1 Stop Bit and Flow Control: None**
- b. Once in Terminal mode, press ENTER or the Reset MicroView button on the Modem to bring up the Menu.
- c. Select option 4. Configuration Menu.
- d. Select option 2. Set SSID.
- e. Follow the prompts. For WEP mode, you’ll need the 26-digit WEP Key set on your WLAN Access Point. For WPA or WPA2, you’ll need your WLAN’s passphrase.
- f. The SSID is automatically saved into the RN-XV and will persist. To change the SSID, follow this procedure again.
- g. The default configuration is to obtain an IP address automatically via DHCP. To change this, refer to the User’s Guide.

5) Using the Modem

By default, the modem provides a simple menu-driven interface. On powerup or reset, it displays the current configuration and gives the following options:

- a. To initiate an outgoing connection (i.e. to a BBS or Telnet host such as Linux), selection Option 1 and follow the prompts.
- b. To use the Phone Book feature, select Option 2 and follow the prompts.
- c. To receive incoming connections, selection Option 3 and set the incoming Port #.
- d. For configuration, selection Option 4 and follow the prompts.

In addition to the status messages on the OLED display, the RN-XV LEDs provide the following status information:

- GREEN: Flashes slowly when idle. Flashes quickly during configuration. Solid when connected.
- YELLOW: Indicates data transmission, both incoming and outgoing.
- RED: Flashes when there is an error (most commonly, invalid SSID).

To enable advanced features such as Hayes Emulation, upgraded firmware will have to be installed. Refer to the User's Guide.

6) Join the Forum!

There is a User and Support Forum for the Modem at www.jammingsignal.com, click on Forums and then Commodore Wi-Fi Modem. There are links to the full User's Guide and advanced documentation.

Join the Forums for help and to learn about tricks, tips, and new capabilities for the device.

I hope you enjoy using the Modem as much as I enjoyed designing it!