# Configuring the RN XV module to communicate in AP mode

For this experiment you need two PCs with WiFi enabled in one and in the other PC we need to connect a RN XV module mounted on zigbee adaptor through USB cable.

Here we will communicate between two PCs through WiFi of RN XV module in one PC and inbuilt WiFi in the other PC.

#### **Step 1:**

In first PC connect the RN XV module to set AT command. Read the manual to enter command mode to do this.

### **Step 2:**

Enter the following commands in the Tera term terminal

Command	Comments
set wlan join 7	// enables access point mode
set ip dhcp 4	// set dhcp to mode 4, (Server)
set wlan chan 1	// sets the wlan channel 1
set ip address 1.2.3.1	// sets the ip address to 1.2.3.1
set ip netmask 255.255.255.0	// sets the netmask
set ip gateway 1.2.3.1	// sets the gateway IP address
save	//saves the settings
reboot	//reboots the module

```
COM23:9600baud - Tera Term VT

File Edit Setup Control Window Help

CMD
set wlan join 7

AOK

(4.00) set ip dhcp 4

AOK

(4.00) set ip address 1.2.3.1

AOK

(4.00) set ip netmask 255.255.255.0

AOK

(4.00) set ip gatewy 1.2.3.1

AOK

(4.00) set ip gatewy 1.2.3.1

AOK

(4.00) set ip satewy 1.2.3.
```

Fig. 1 command mode settings

#### Step3:

Now enable the inbuilt WiFi in the other PC and connect it to this RN XV module from wireless network connections.

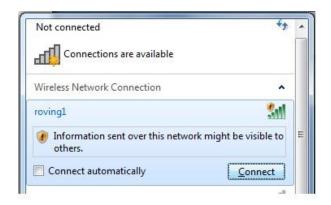


Fig. 2 Wireless Network Connections from PC 2

## **Step 4:**

Now in the other PC open Tera term software and setup a new connection of TCP/IP type.

SET:

Host IP address as 1.2.3.1

Service: Telnet TCP port: 2000



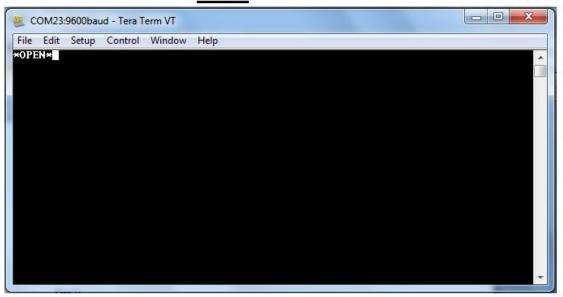
Fig. 3 TCP/IP settings in PC2

Press ok.

# **Step 5:**

Now you can transmit message from one PC to the other through the workspace of Tera term software.

# PC 1



# PC 2

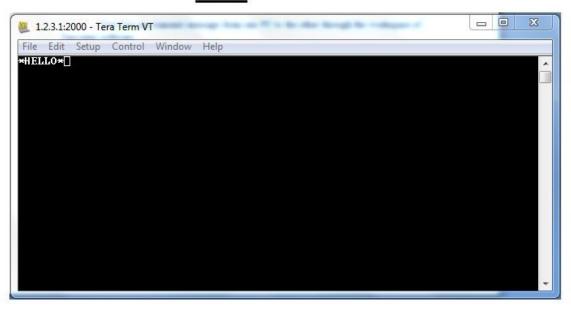
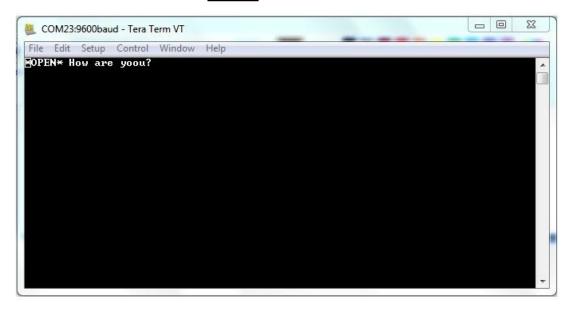


Fig. 4 Handshake

# PC 1



# PC 2

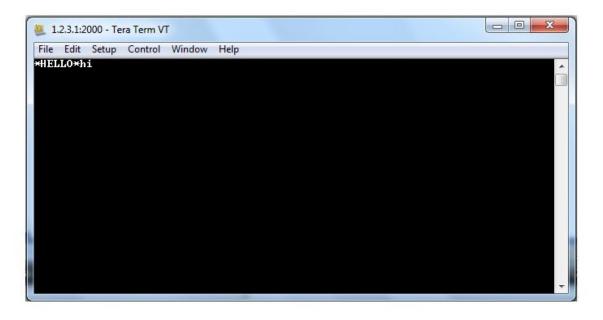


Fig . 5 message communication

#### **NOTE:**

• If you have problem setting the module in AP mode try factory resetting the module by sending factory RESET command in command mode then reconfiguring the module with above settings.

#### **Note: AD-HOC mode**

As of recently there is a new 4.0 firmware for the wifly chip that no longer supports Adhoc mode. It is replaced with AP mode.