1. Configure two XStream-PKG RF modems for serial bridging.

Objective: Configure two XStream-PKG Serial RF modems to build a serial bridge between two terminals or between a terminal and a device

1.1 Software Requirements

- XCTU
- PuTTy or any Terminal application

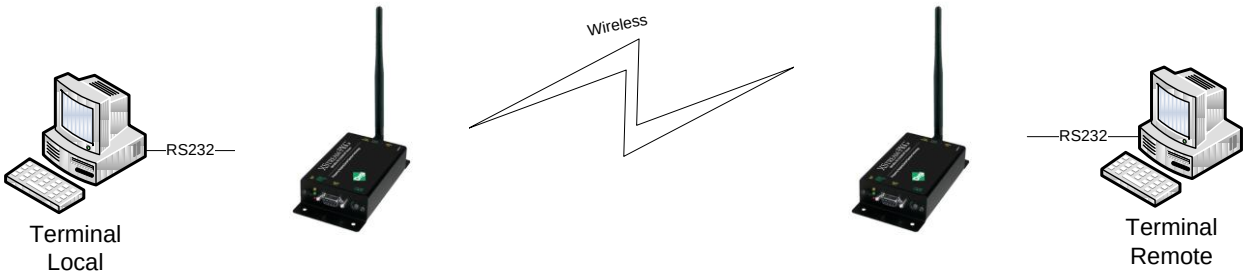
1.2 Hardware Requirements

- XStream-PKG RS-232/485 RF Modem x 2

2. Scenario

In our example, we will connect a terminal application running on a computer on each XStream modems and send data through the bridge.

3. Sample diagram.

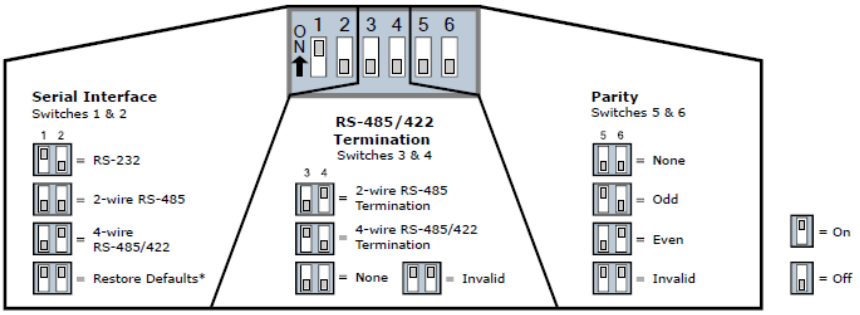


4. Step by step instructions

4.1 Configuring the Local XStream modem

a) Proceed to a factory reset of the modem to restore default parameters:
   a. Power ON the modem
   b. Set switches 1 & 2 to their ON state (up)
   c. Power OFF the modem for at least one second, then on again.

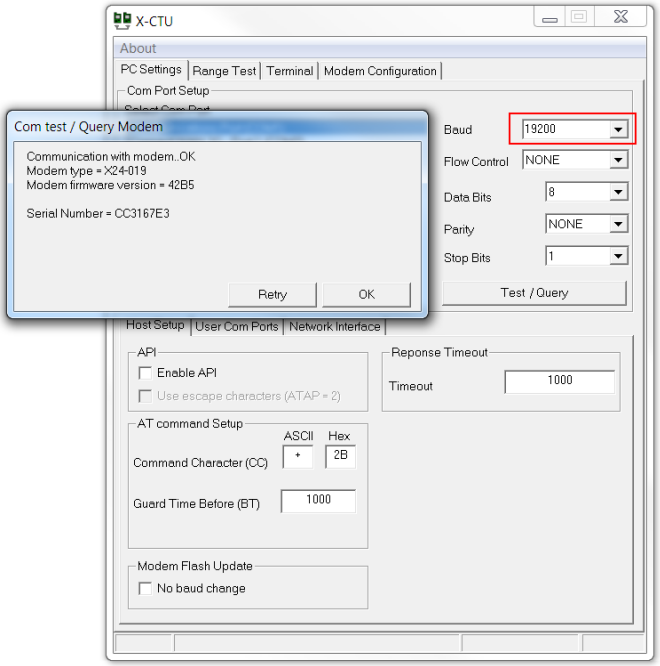
b) Verify that the DIP switches settings are the following: 1 ON all OFF.



c) Connect the XStream modem to the Local Terminal computer using a RS232 Straight Thru cable

d) Open the XCTU application and select the COM port of your computer

e) In our example we use the 19200 version of the XStream mode, so set the baud rate accordingly and click the "Test Query" button, a new window should appear :



f) Communication with the modem is OK, click on the "**Modem Configuration**" tab

g) Scroll down to **Networking** Set the **HP** (Hoping Channel) value to "**1**" and **DT** (Destination Address) to "**10**"

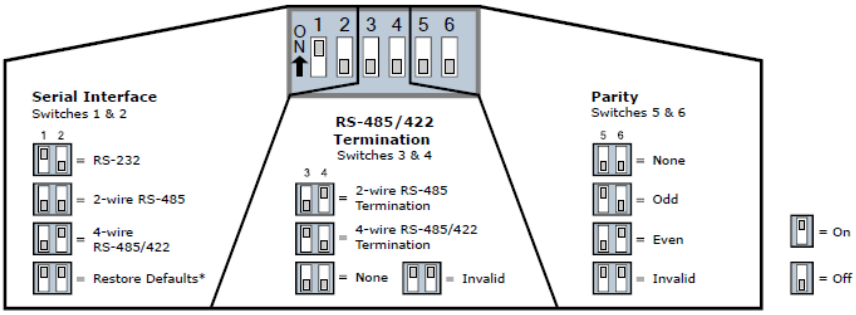
- The Hoping Channel value is the channel on which the radio modem will communicate. These channels are not non-interfering. Both modems must be communicating on the same channel
- The Destination Address is the address that identifies the destination of the RF packet. Only radio modems having matching addresses can communicate with each others.

h) In the **Modem Parameter and Firmware** click the "**Write**" button

4.2 Configuring the Remote XStream modem

a) Proceed to a factory reset of the modem to restore default parameters:
   a. Power ON the modem
   b. Set switches 1 & 2 to their ON state (up)
   c. Power OFF the modem for at least one second, then on again

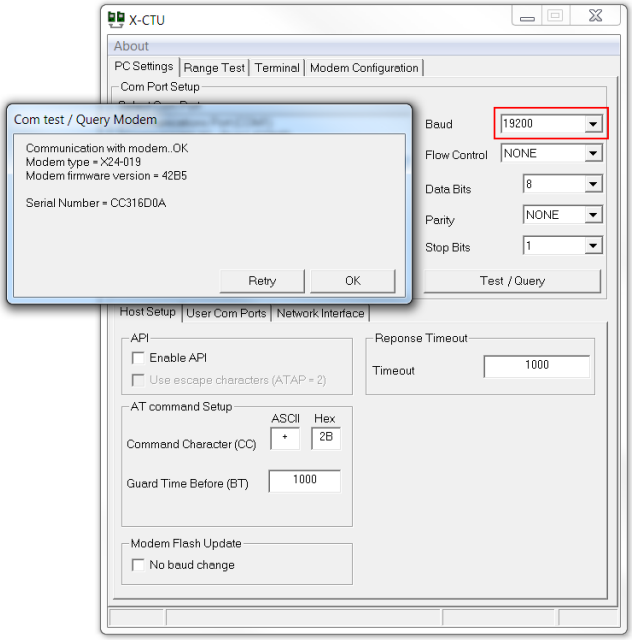
b) Verify that the DIP switches settings are the following : 1 ON all OFF



c) Connect the XStream modem to the Local Terminal computer using a RS232 Straight Thru cable

d) Open the XCTU application and select the COM port of your computer

e) In our example we use the 19200 version of the XStream mode, so set the baud rate accordingly and click the "Test Query" button, a new window should appear **:**



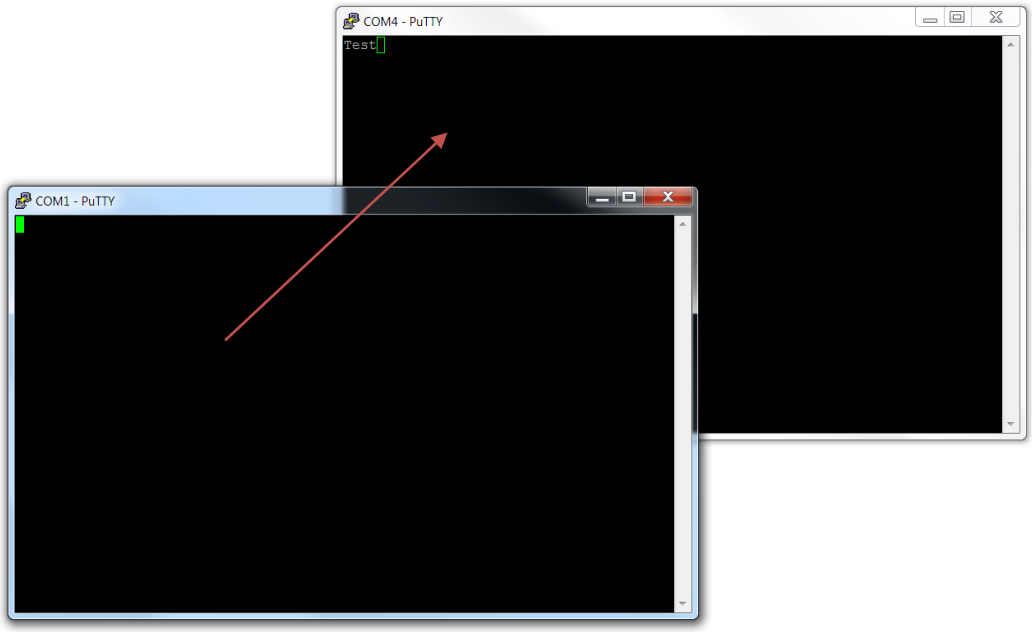
f) Communication with the modem is OK, click on the "**Modem Configuration**" tab

g) Scroll down to Networking Set the **HP** (Hoping Channel) value to "**1**" and **DT** (Destination Address) to "**10**"

- The Hoping Channel value is the channel on which the radio modem will communicate. These channels are not non-interfering. Both modems must be communicating on the same channel
- The Destination Address is the address that identifies the destination of the RF packet. Only radio modems having matching addresses can communicate with each others.

h) In the Modem Parameter and Firmware click the "**Write**" button

i) Close XCTU and open a terminal application such as PuTTy to the COM port where the modems are connected on each system



j) In this test, data is sent from Local (COM1) to Remote (COM4)