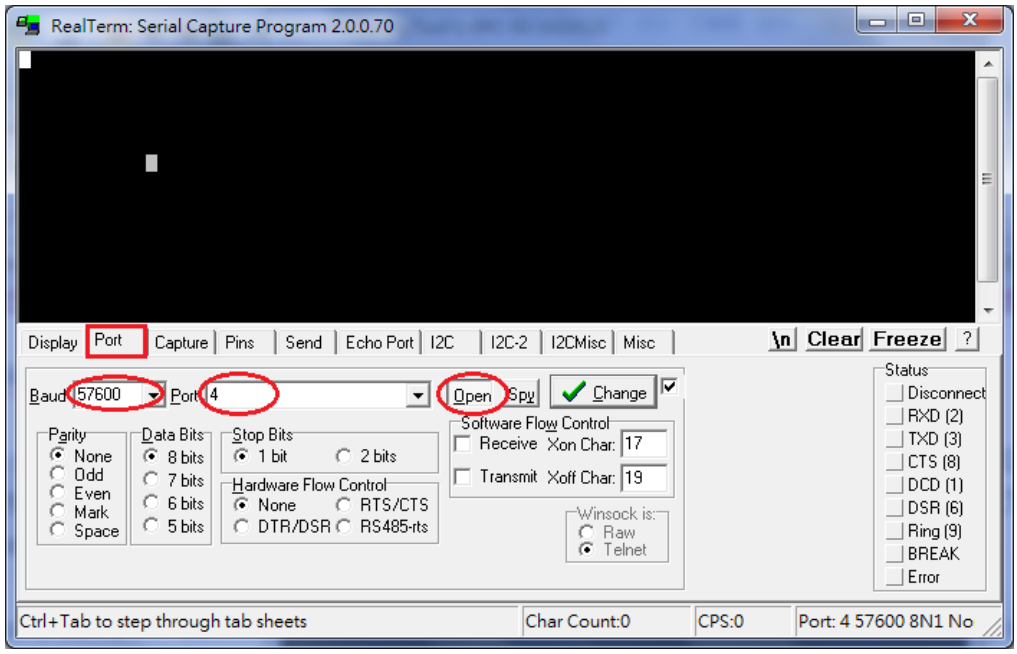
LoRaWAN Basic Operation for LD-50H

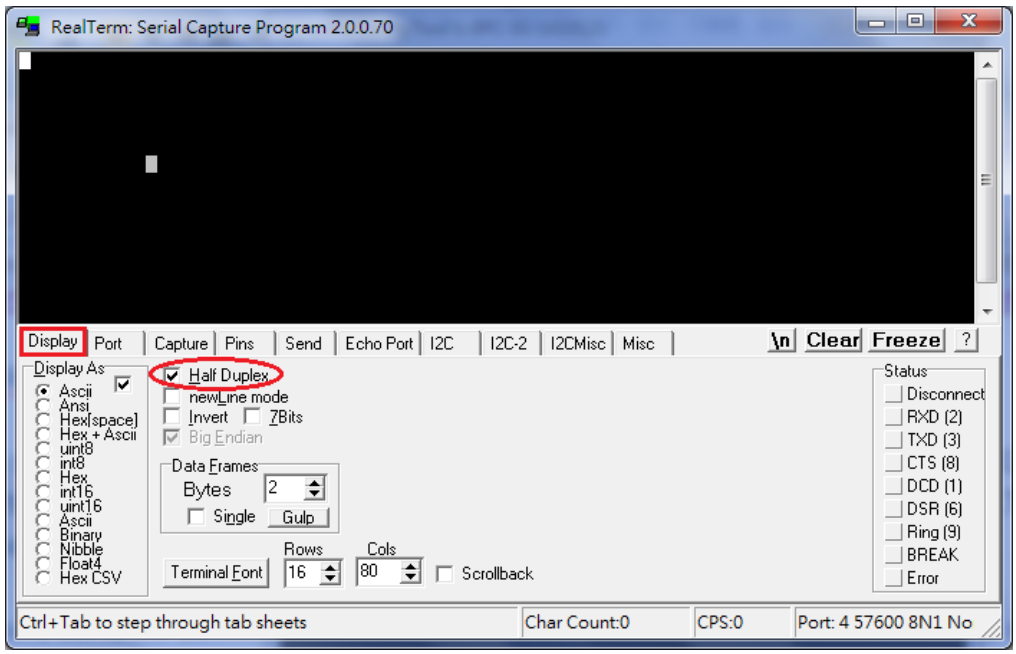
Please refer to Chapter 3 LoRaWAN AT command of LM-130H1 & LM-533 AT Command list as the following link to see the content of AT commands.

https://drive.google.com/file/d/1NxtqA-eHwo1yZbFLDo2aQc1oBQaiECX3/view?usp=sharing

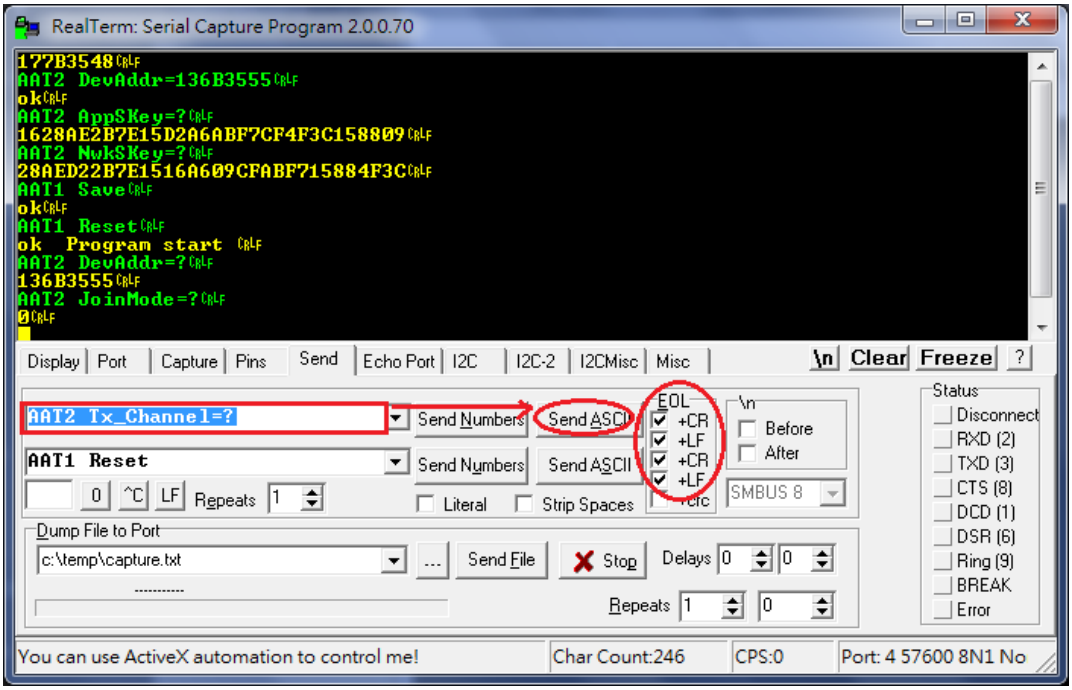
1. We suggest you could use the tool RealTerm for sending AT command.
2. In “Port” page, set the settings for the UART interface as 57600 bps, 8 bits, no parity, 1 Stop bit, no flow control. You could check your COM port in the device manager. Click “Open” button to start it.



3. In “Display” page, select “Half Duplex”.



4. In “Send” page, you could put your AT command in below red square. All of the LM-130 module’s settings and commands are transmitted over UART using the ASCII interface. All commands need to be terminated with <CR><LF> and any replies they generate will also be terminated by the same sequence.



For example, after you set AAT2 DevAddr=136B3555, you need to send AAT1 Save. It responses “OK”. Then you send AAT1 Reset. It responses “OK” with “Program start” as well.

The settings stored to LoRa module only when you see “Program start”.

You could set JoinMode as ABP or OTAA. In the same way, you could set NwkSKey, AppSKey for ABP mode. You could set AppEui, AppKey for OTAA mode. After you finish the settings, you could send command AAT2 DevAddr=? to check whether your settings are written into LoRa module.

Please make sure the corresponding settings of LD-50H, such as JoinMode, LoRaWAN keys are matched with the settings in network server. Otherwise, the payload could not be received by network server.

Note: The green word in RealTerm means the command you send. The yellow word means the response from LD-50H.

5. Pleases send self defined payload to network server by AAT2 Tx=[parameter1], [parameter2],[parameter3].

[parameter1]: the port number from 1 to 223.

[parameter2]: string representing the uplink payload type, either “cnf” or “uncnf”. (cnf = confirmed, uncnf = unconfirmed)

[parameter3]: payload value in hexadecimal character.

The length of payload is limited to the data rate. (Please refer to the LoRaWAN Specification for further details)

Please refer to AT command list for the details.

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