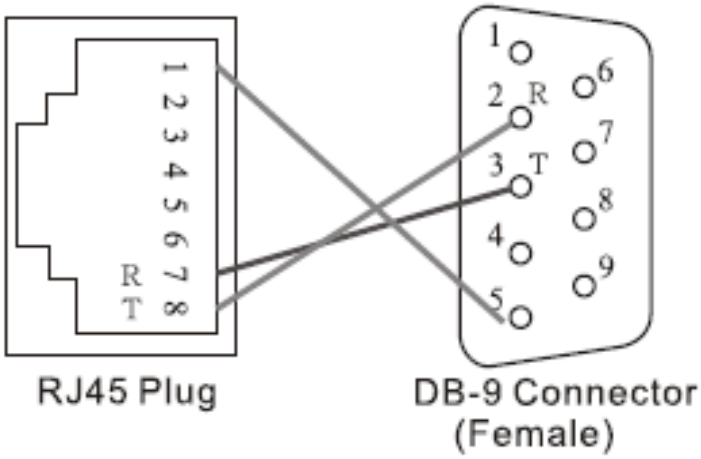
GTEC UPS MODEL:

AP160N – ZP120N - MATRIX

CMC Card Installation and HyperTerminal Configuration

SERVICE DOCUMENT

A. RJ45-RS232 Cable:

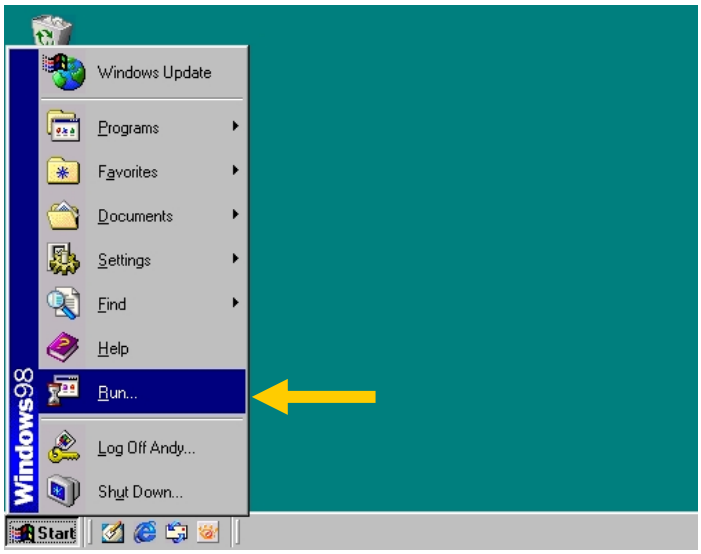


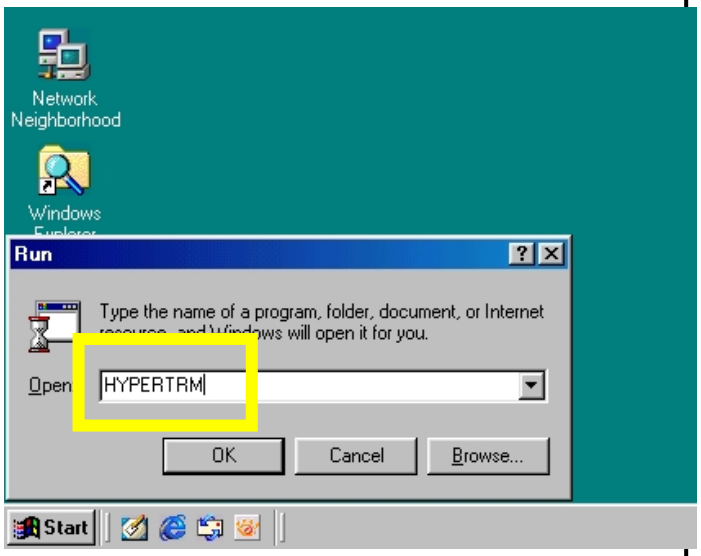
PIN definition

B. CMC Card installation:

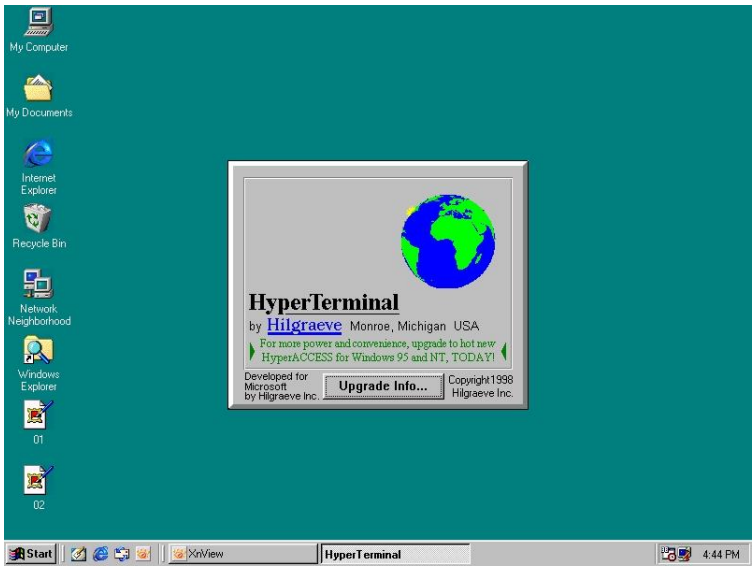
C. HyperTerminal Communication Parameters Setting

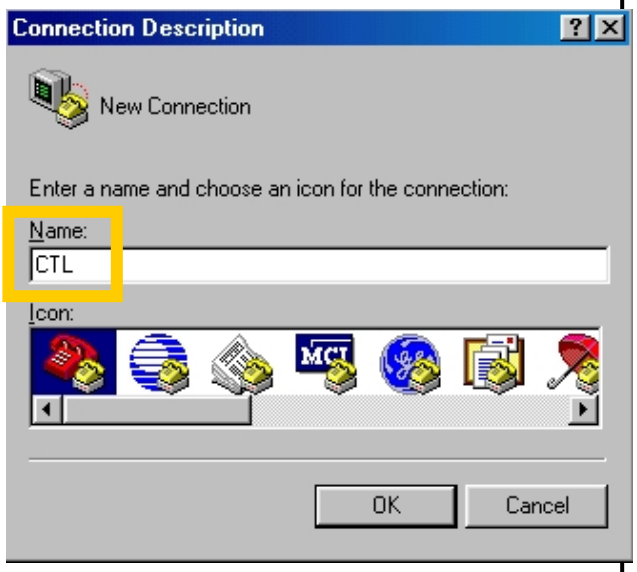
Step 1 " Start " -> " Run " then key-in " HYPERTRM " and press OK to start-up the Hyper Terminal program.



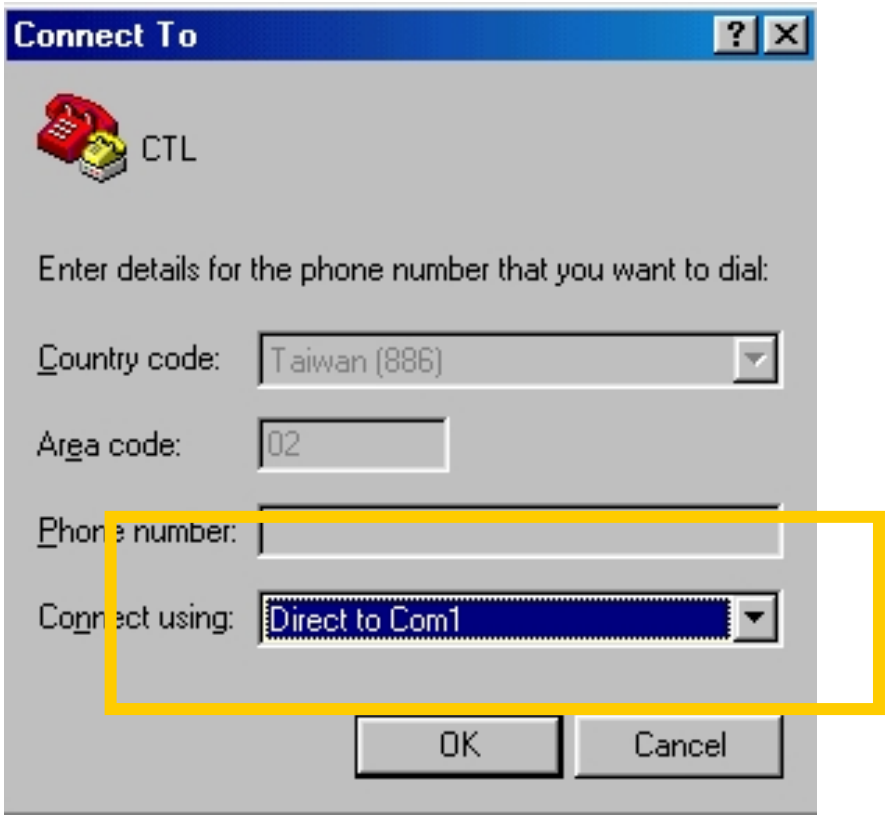


Step 2 Have a file name that you prefer then press the " OK "



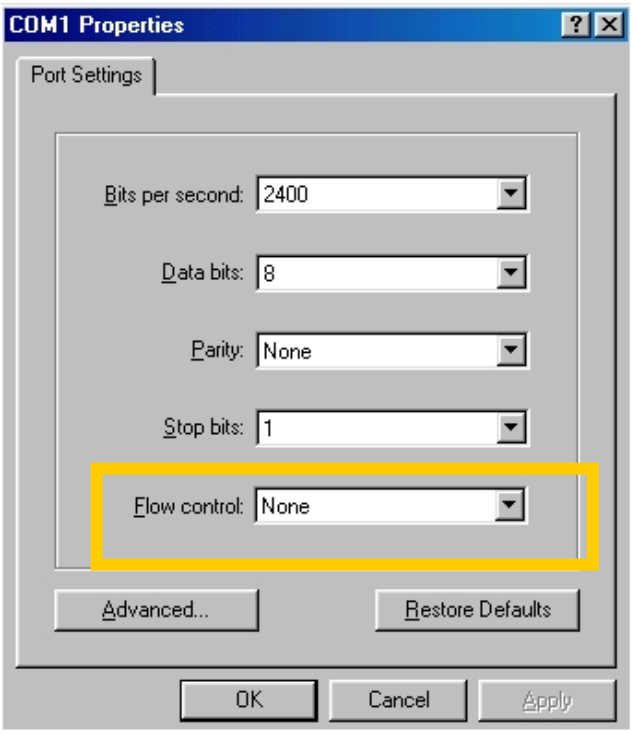


Step 3 Select the COM port that you connect with the UPS and the PC then press OK .

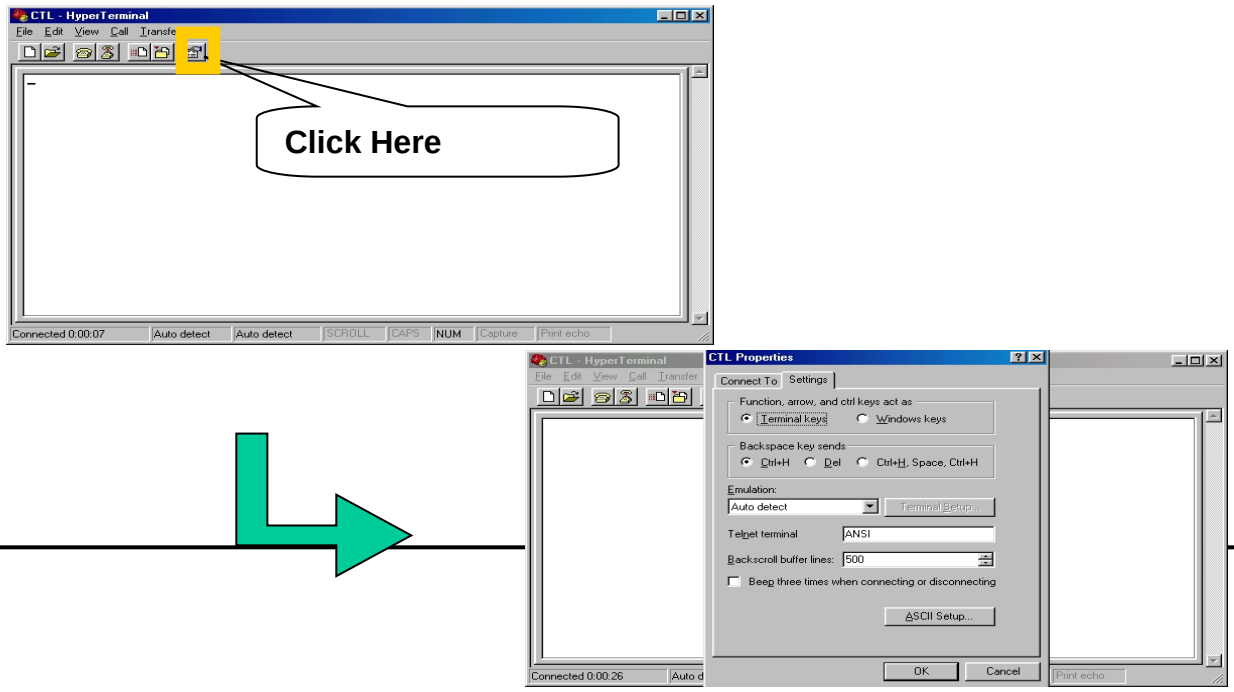


Note: IF it pop up a message showing " Unable to open COM port " Then it means there is other program using the COM port .

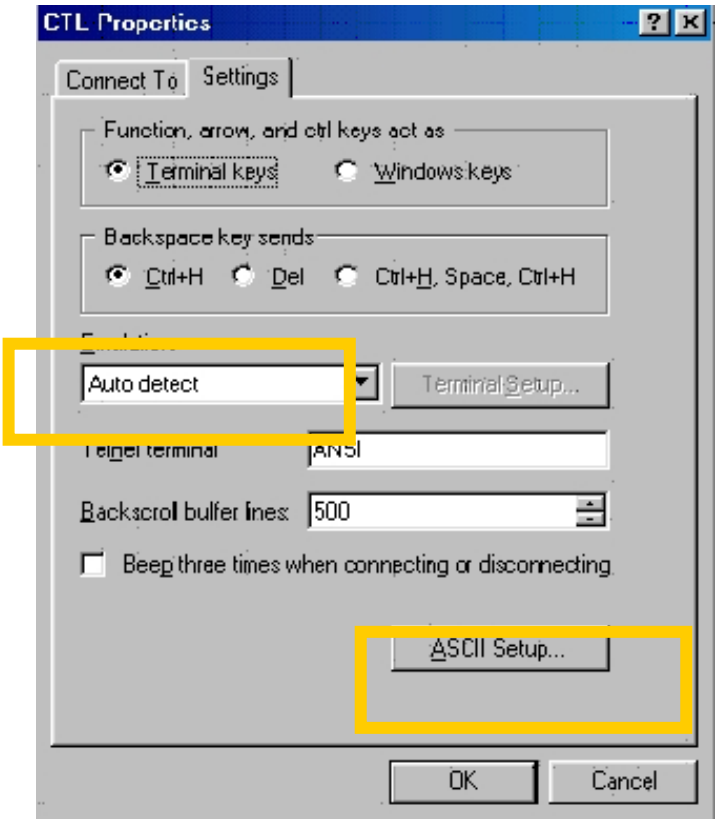
Step 4 Select " None " in Flow Control item then press OK



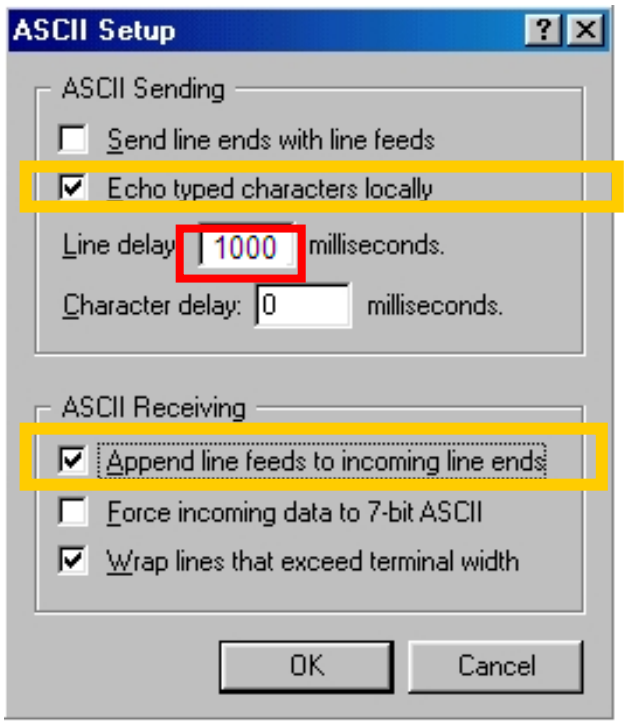
Step5 Modify the Properties of the connections



Step 6 Select " Auto detect " in Emulation item then press " ASCII Setup " button

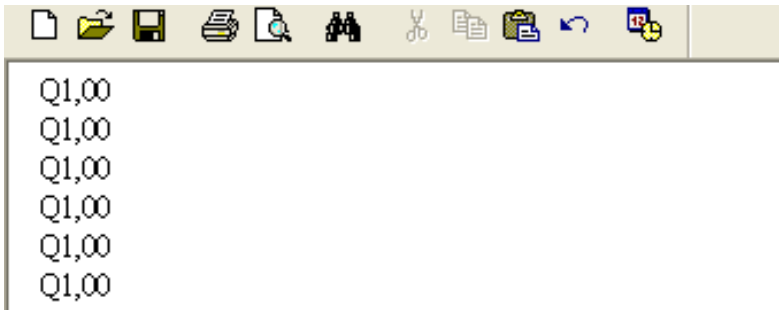


Step 7 Enable below two items and set Line delay 1000 milliseconds. Then press OK.

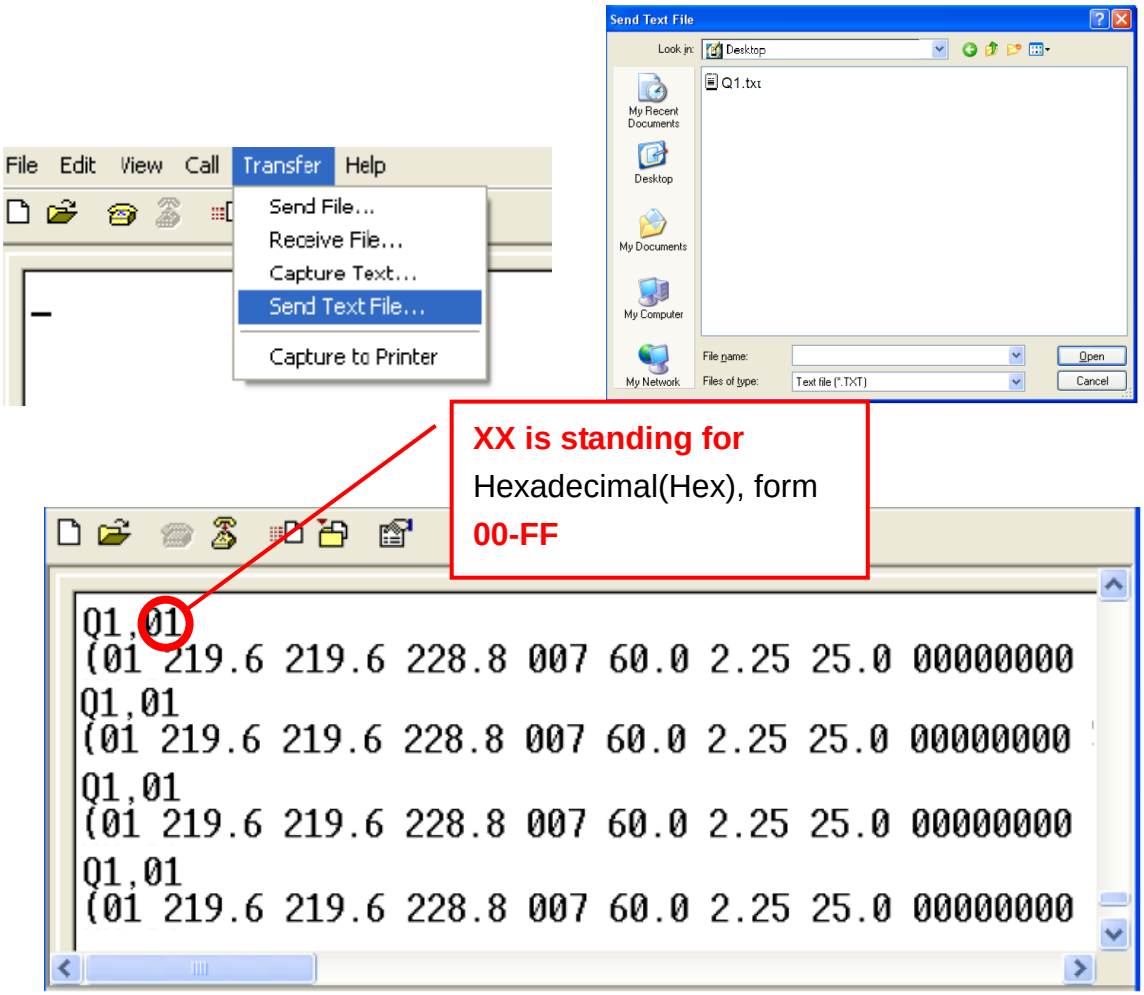


Step 8. Create a *.txt file on desktop (Q1.txt for example) with contents below. Please be informed that command Q1,00; “00” **is standing for Hexadecimal(Hex)**, form **00-FF** for CMC address in RS232/RS485 communication and than it has to translate in to Binary which set on the deep-switch (SW1) on CMC. Regarding to CMC address setting, please refer to appendix,

For Example: Q1.txt

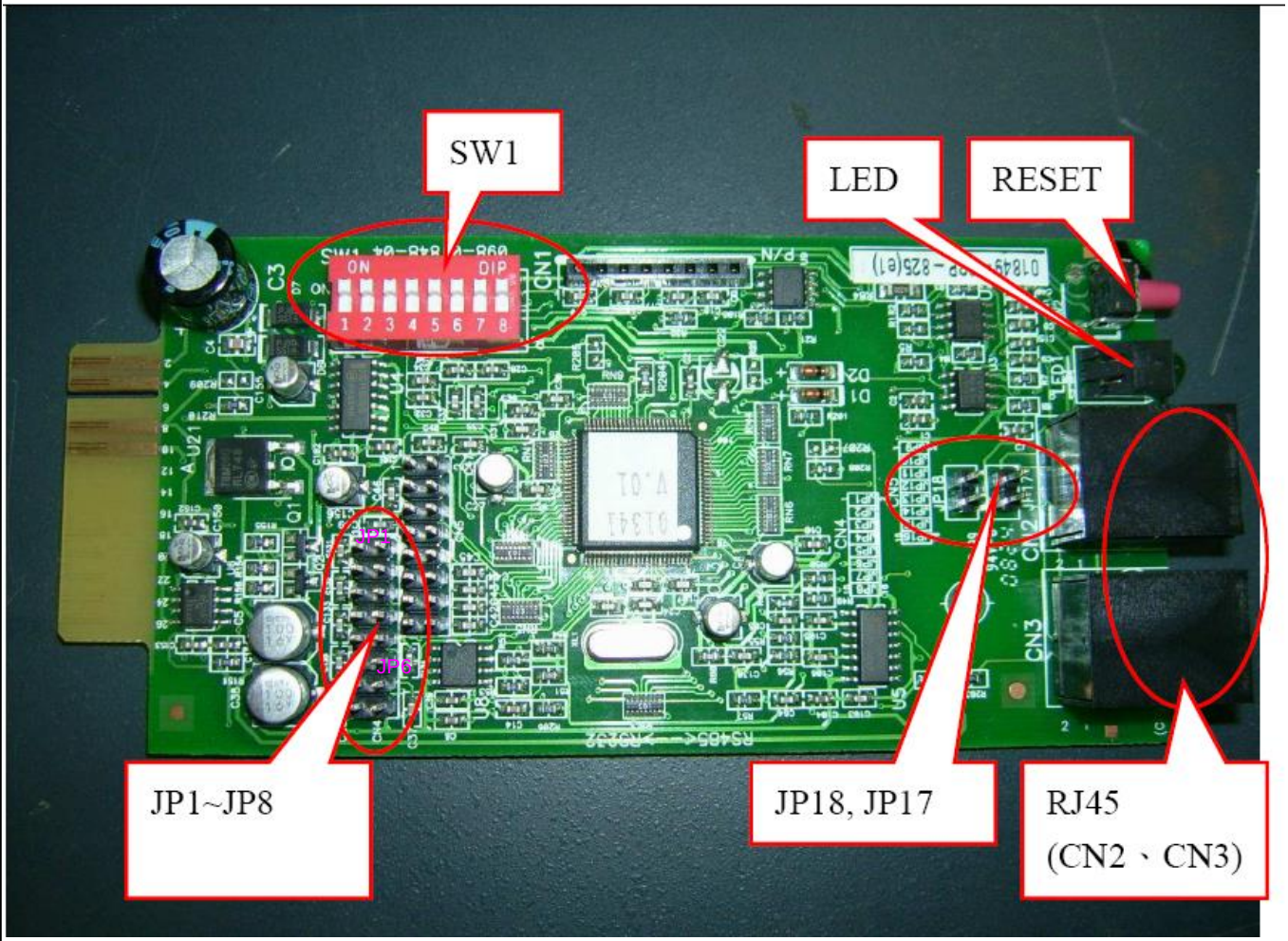


Step 9. Implement Q1.txt, In the Terminal window, select “**Transfer**” and click on “**Send Text File**” menu option.

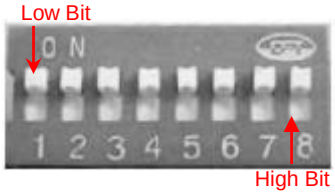


Appendix. CMC address parameter Setting.

1. CMC address is set on SW1 by **Binary**

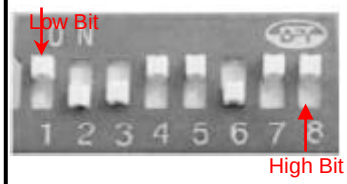


2. The address of CMC is available from **0-255 (Decimal) or 00-FF (Hex)** by binary, “ON” position stands for “0”, below figure is an example for address “00” for Terminal command (Decimal for CMC address)

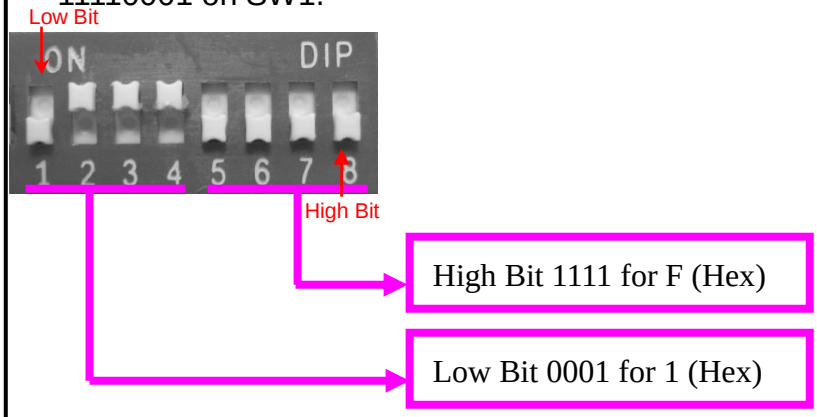


3. For example A, CMC address “38” (Decimal) in software ModScan32, Binary address is 00100110 on SW1. **Note: the address definition is depended on Modbus communication**

software. ModScan32 is which we use in our lab for Modbus test.



4. For example B, CMC address “F1” (Decimal) in RS232/RS485 command, Binary address is 11110001 on SW1.



Appendix. RS485 communication setting (JP17/JP18).

The default setting of RS485 communication is adopting 4 wires, in case of RS485 communication by 2 wires, please insert 2 jumper on JP17 and JP18 accordingly.

RJ45 PIN definition:

Pin	1	2	3	4	5	6	7	8
Define	GND	NULL	R+	R-	T-	T+	NULL	NULL
Signal			RS485					

Default setup with ZP/AP UPS:

-Baud rate: 2400

-Data bits: 8

-Parity: NONE

-Stop bit: 1

Appendix. UPS Model Parameter Setting (CN4/CN5).

UPS model can be set by JP1 - JP6 on CN4, JP7&JP8 of CN4 and CN5 are reserved for developing in the future.

No.	VA	UPS Model	Gtec	JP1	JP2	JP3	JP4	JP5	JP6
1	1K	C1000	ZP120LCD-1K	J	X	J	J	J	J
2	1KR	C1000R	AP160LCD-1K	J	J	X	J	J	J
3	1KS	C1000S	ZP120LCD-1K-KS AP160LCD-1K-KS	J	X	X	J	J	J
4	3K	C3000	ZP120LCD-3K	J	X	J	X	J	J
5	3KR	C3000R	AP160LCD-3K	J	J	X	X	J	J
6	3KS	C3000S	ZP120LCD-3K-KS AP160LCD-3K-KS	J	X	X	X	J	J
7	6K	C6000	ZP120LCD-6K ZP120LCD-6K-KS	J	J	J	J	J	X
8	10K	C10000	ZP120LCD-10K-11 ZP120LCD-10K-11-KS	J	X	J	J	J	X
9	10K3	C10000	ZP120LCD-10K-31	J	J	X	J	J	X
10	15K3	C15000	ZP120LCD-15K-31	J	J	J	X	X	J
11	20K3	C20000	ZP120LCD-20K-31	J	X	X	X	J	X

Note: J stands for Jumper which means put a Jumper on it and X stands for None.