

290i / 290s Generator User Guide

A. Before started: -

Make sure that the computer is with the below programs and file: -

- MS Excel, and
- Hyper Terminal or similar terminal emulation software
- The 290i and 290s PLU Generator MS Excel file. [Click here to download this file.](#)

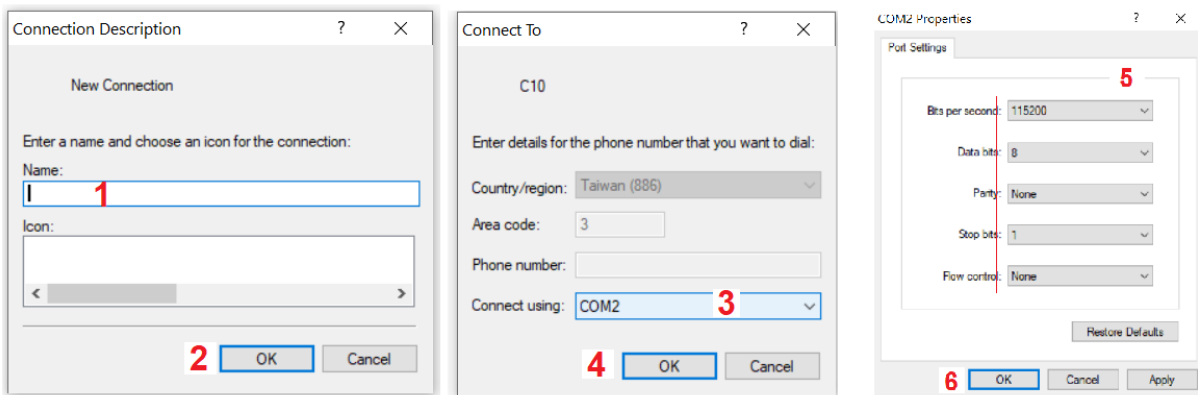
About Hyper Terminal

Hyper Terminal is built-in in Windows XP or earlier version, but is not available anymore starting from Windows 7. You may use one the below methods to obtain it.

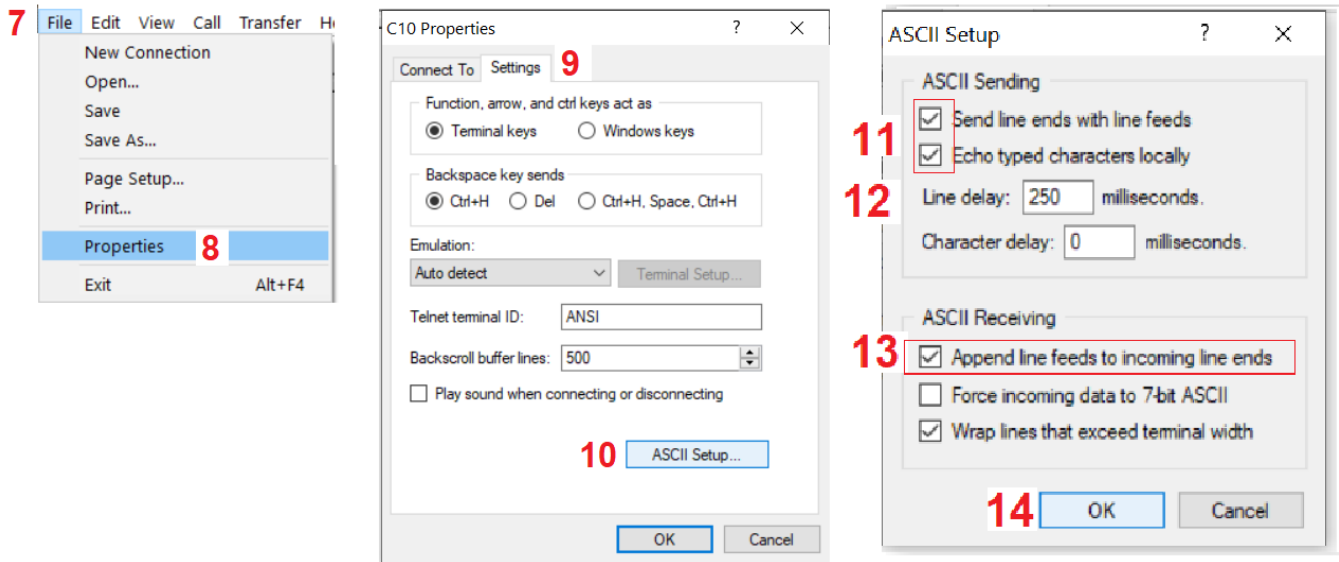
- Copy the hyper-terminal files from Windows XP and paste them under the same folder (e.g. desktop). HyperTerminal contains 2 files, i.e. **hypertrm.exe** and **hypertrm.dll**. which are located at the below folders:
 - Program Files Windows NT hypertrm.exe
 - WINDOWS system32 hypertrm.dll
- Download the pay or trial for free version from <https://www.hilgraeve.com/hyperterminal/>.

B. Hyper Terminal Settings

Run Hyper Terminal, then: -



1. Create connection name.
2. Click OK.
3. Connecting using: -
 - For serial connection: - Select the comport which is connecting with 290i and 290s.
 - For TCP/IP connection: - Select TCP/IP (Winsock), then enter the IP number and local port number assigned to 290i and 290s.
4. Click OK.
5. **If serial connection is selected in above step 3...** Complete these information. The first top 4 values shown inside boxes are the default settings of 290i/290s and are highly recommended. Always select None for Flow control.
6. Click OK.



7. Click File.
8. Click Properties.
9. Click Settings.
10. Click ASCII Setup.
11. Check all these 2 boxes.
12. Enter Line Delay value. Suggested values are: -
 - 250 ~ 500 for serial cable connection. Value less than 250 should be avoided.
 - 350 ~ 500 for LAN or WIFI connection. Value less than 350 should be avoided.
13. Check this box.
14. Click OK.

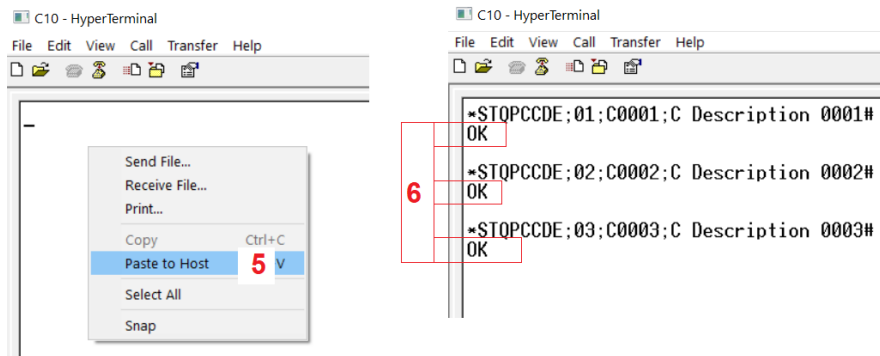
C. Settings on 290i and 290s

1. Go to F16 and select the desired connection comport.
2. Select CMD, then press Printer/M+.
3. Select the baud rate value which should be the same as point 5 of above Hyper Terminal settings. Press Print/M+.
4. Select the Parity value which should be the same as point 5 of above Hyper Terminal settings. Press Print/M+.
5. Select Data Bits value which should be the same as point 5 of above Hyper Terminal settings. Press Print/M+.
6. Press Zero twice to return to operation status.

D. Start Creating PLUS

Open the 290i and 290s PLU Generator MS Excel file, then: -

1. Select the desired worksheet.
2. Complete the information / value. Leave all not applicable / used boxes blank.
3. The command string of information/value entered is then created automatically.
4. Select and copy the desired command strings to be sent to 290i / 290s.



5. On the working area of Hyper Terminal, right click mouse then **click** Paste to Host.
6. Command strings selected are then sent to the 290i / 290s connected. Once a command string is successfully received, 290i / 290s will response with an OK message. In case: -
 - a. NG message is responded, it means that the command string sent is not correct. Double check content of that command string and resend that particular command string.
 - b. No response is received, it means that the command string sent is not processed / received successfully. Double check content of that command string and resend that particular command string.
7. Repeat above step 1 to 7 for other PLUs.