Advantech AE Technical Share Document

Date	2018 / 08 / 07	**Release Note**	□ Internal ■ External
Category	■ FAQ □ SOP	**Related OS**	AdvLinuxTU
Abstract	How to test CAN function under AdvLinuxTU?		
Keyword	AdvLinuxTU / PCM-26D2CA / CANBus / CANOpen		
Related Product	PCM-26D2CA		

■ **Problem Description:**

This document describes the way to test CAN port with Advantech CAN bus communication card on AdvLinux. By connecting the wires correctly, those two CAN port testing can help user to verify the operation of CAN ports by using Advantech Linux CAN example

■ **Brief Solution:**

H/W condition --- UNO-2271G + PCM-26D2CA-AE + AdvLinuxTU 1.0.8(already included the PCM-26D2CA driver)

A. Connect with each CAN_L, CAN_H pin, as Figure 1:

Pin	Signal
2	CAN_L
3	GND
7	CAN_H

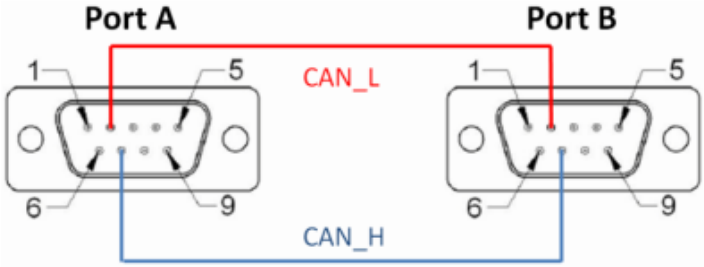
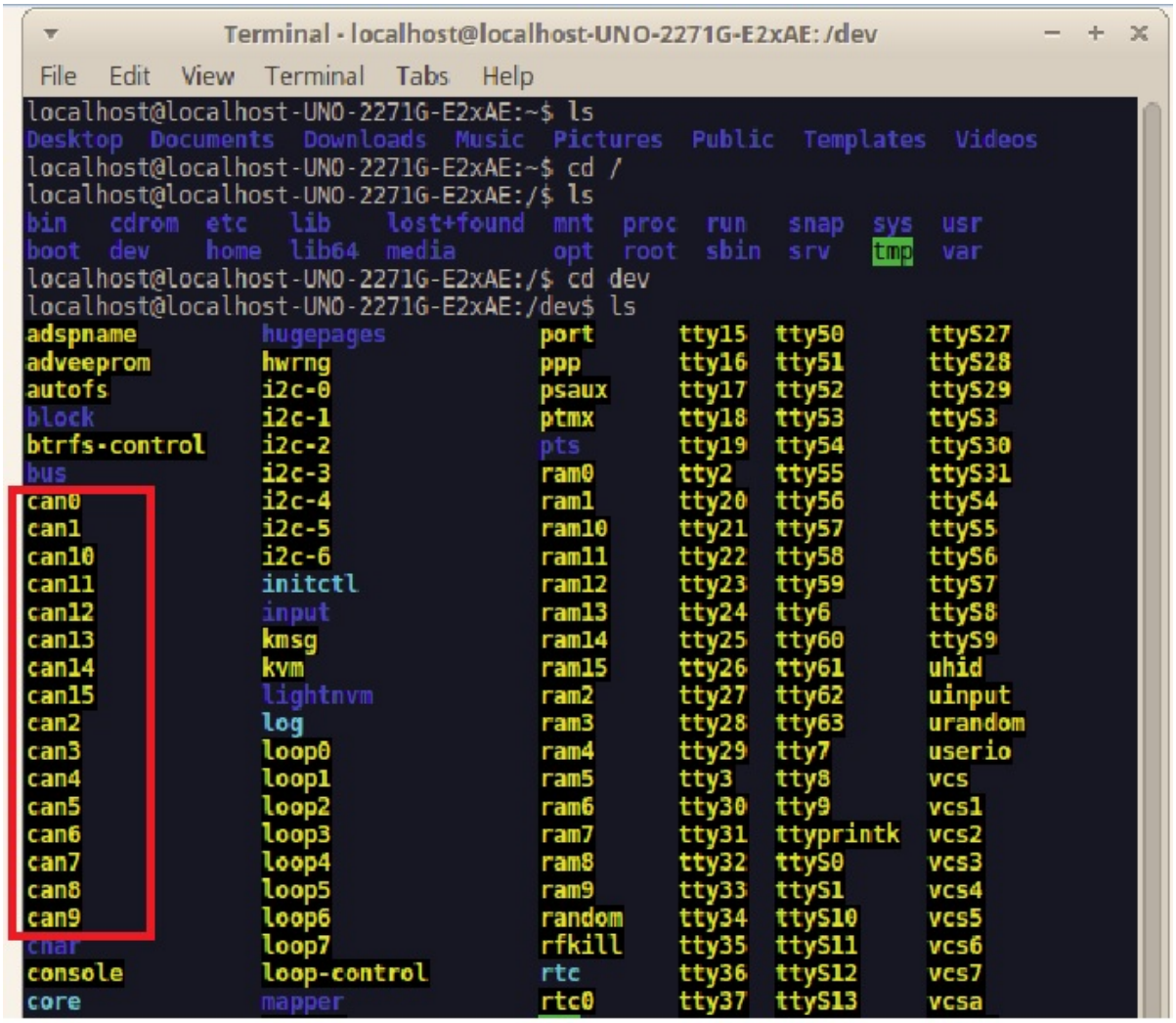


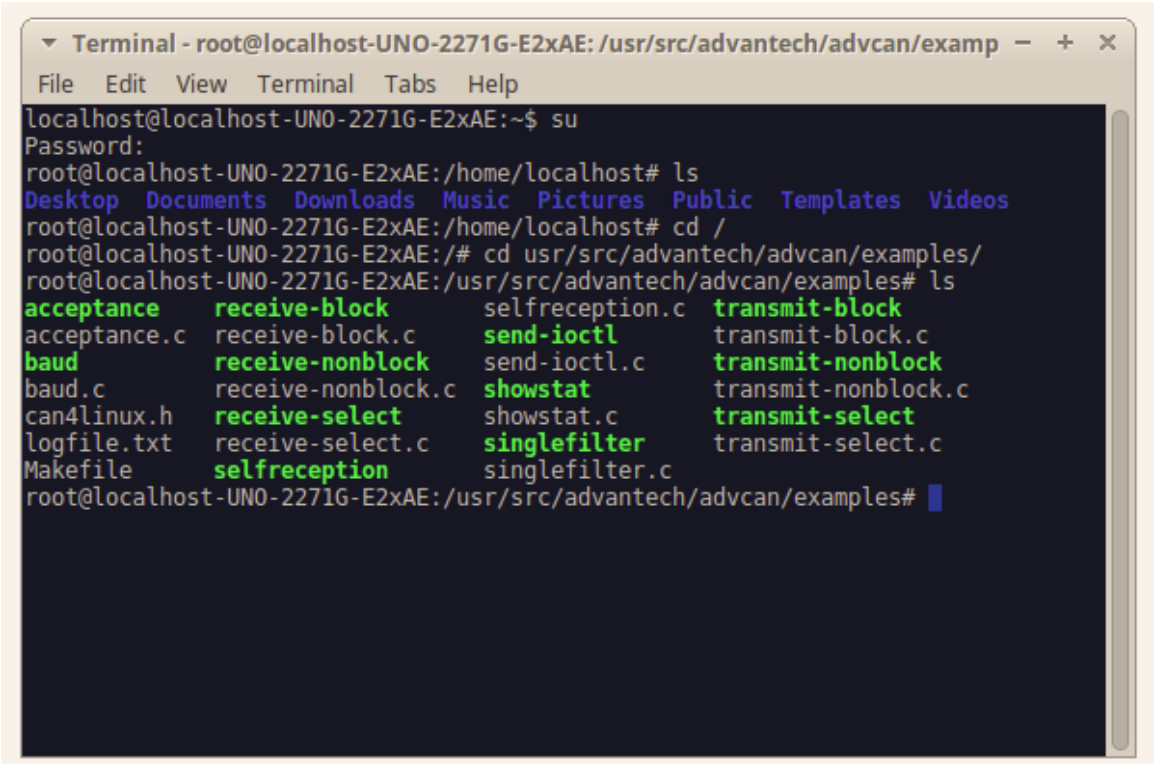
Figure 1. Connect with CAN_L & CAN_H of Port A & Port B.

B. Press Ctrl+Alt+T to open terminal, type “su” and enter the password to change to root.

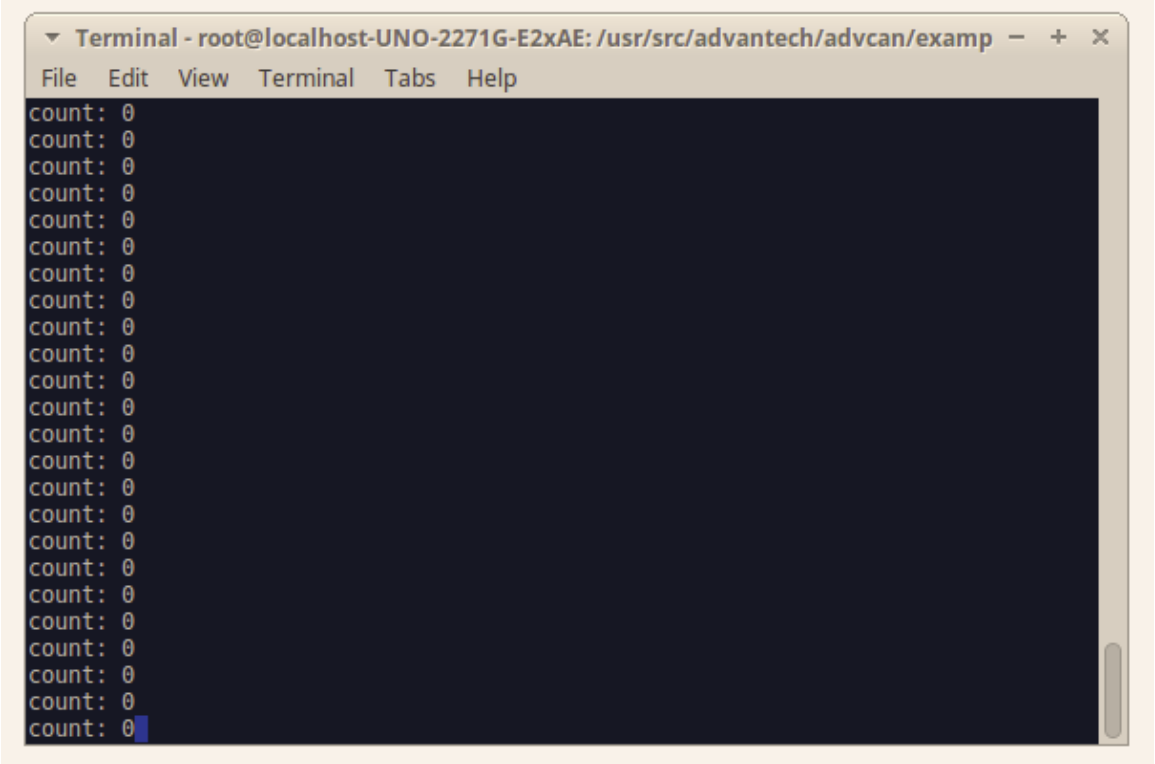
C. Type “cd /” change to the folder
Type “ cd dev” then type “ls” to list all the device.
Make sure you can find the CAN device in the list as below:



D. Type “cd /” again back to the main folder.
Type “cd usr/src/Advantech/advcan/examples/”



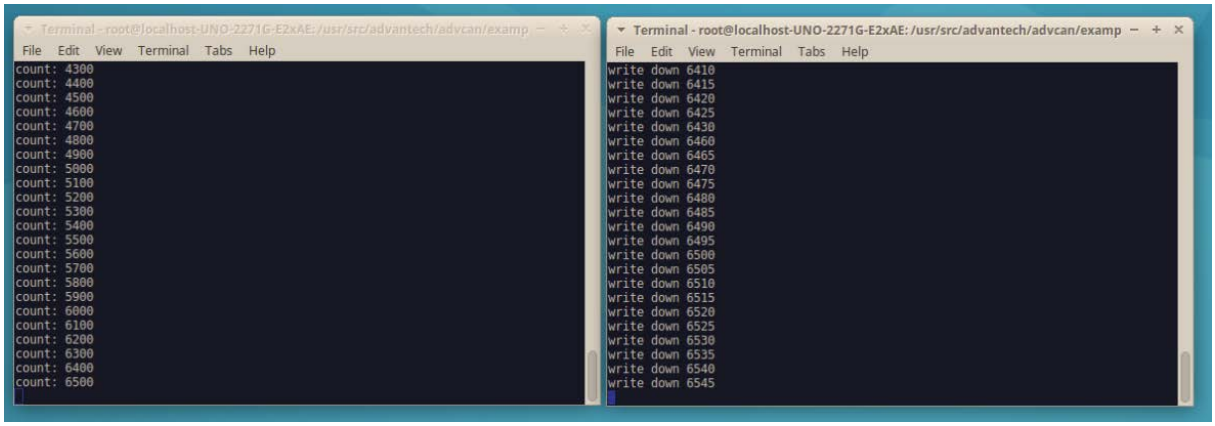
E. Type “./receive-select can0”.
The count is 0 because we have not transmitted any data yet.



F. Open another terminal and use root to enter the same folder again: usr/src/Advantech/advcan/examples/

G. Type "./transmit-select can1"

H. If everything works fine, two terminals will be like this:



I. Now, you can switch the transmit port and receive port then test it again.

J. As above test result, if both way can work well with transmit & receive example, that mean these CAN card function is fine..