

Updating the CL_SPU EEPROM SETTINGS (Updated for V47+ of the Driver Test App)

The CL_SPU card EEPROM holds persistent settings such as motor phase timings, output voltage scaling, vibration and position following mode output scaling etc. These persistent settings are retained when the card is powered-down and are used to initialise the card for operation on power-up.

The EEPROM settings can be changed using the Driver Test Application's Update_EEPROM button. The button only becomes active when the test app output mode is set to "**10b-Module**".

The Driver Test Application is in the Driver Test App sub-folder of the main CL software folder.

IMPORTANT: DO NOT change the CL_SPU card's EEPROM settings unless you are absolutely sure you know what you are doing. Contact me for guidance if required.

IMPORTANT: V47+ of the Driver Test App now allows you to select the ini file containing the EEPROM settings. Previously only the file BLDRV2.ini could be used.

EEPROM UPDATE STEPS:

1. Go to the Configuration Manager folder and open the file containing your EEPROM settings using a text editor (eg NotePad). The default ini file is BLDRV2.ini and it contains the EEPROM settings for each of the three loading channels.
2. Make your changes to the settings, note each channel (Elevator, Aileron and Rudder) has its own section. Save your changes to file (you can change the filename but you must keep it in the same folder).
3. Go to the Driver Test App folder and run the test app (V47+). Make any required changes to the COM port to allow the test app to communicate with the card. Make sure the Output Mode is set = 10b-Module.
4. Power-up the CL_SPU and BLDRV2 cards. You do not need to power-up calibrate the cards. The Amber LED's should be flashing rapidly if the card is receiving data from the test app.
5. Click the Update_EEPROM button, and follow the prompts to select your EEPROM file and proceed. The Test App will confirm when the update is complete.
6. Restart the cards and once the Amber LED's are flashing again click the Ping button on the Test App. This will record the new card data in the ScratchPad_Dump.log file in the Logs sub-folder in the Driver Test App folder. You can inspect the EEPROM settings by scrolling to the end of the log file.

Note that some of the settings are displayed as two bytes – MSB & LSB.

7. The CL_SPU is now ready for use with the new EEPROM settings.

R2 – 30/7/16