

Quick Guide for Programmable Driver Configuration with NFC Digital Wand

Attention:

Please note that for certain ThoroLED programmable drivers, you must use the TPSB-100AW NFC Digital Wand to program.

Compatible LED Drivers

LED Driver Part#	LED Driver Description	Programming Tool
T1M1UNV098P-50L	50W, 330mA-980mA	TPSB-100AW
T1M1UNV134P-75L	75W, 450mA-1340mA	TPSB-100AW
T1M1UNV140P-40C	40W, 470mA-1400mA	TPSB-100AW

Software installation

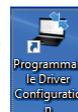
Required:

- Microsoft .NET Framework 4.0 runtime
- FTDI D2xx Driver - CDM v2.12.24 or above
- ProgramDriverConfig (LPL) v1.3.3 (20181224A).msi

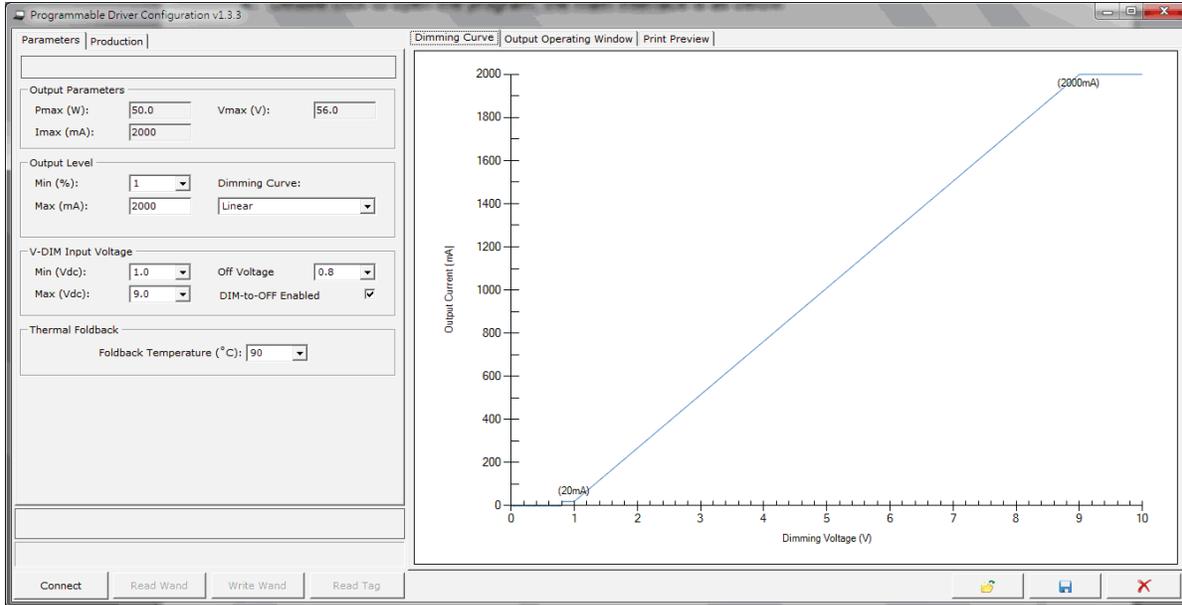
1. Locate the installer named “ProgramDriverConfig (LPL) v1.3.3 (20181224A)” and double-click to run. The default install directory is C:\Program Files(x86)\LPL\. The software installation may be interrupted by Windows Defender Smart Screen. If this happens, press the icon “More info” and then “Run anyway” to skip the checking.



2. After installation, the icon “Programmable Driver Configuration” will be automatically added to the desktop.

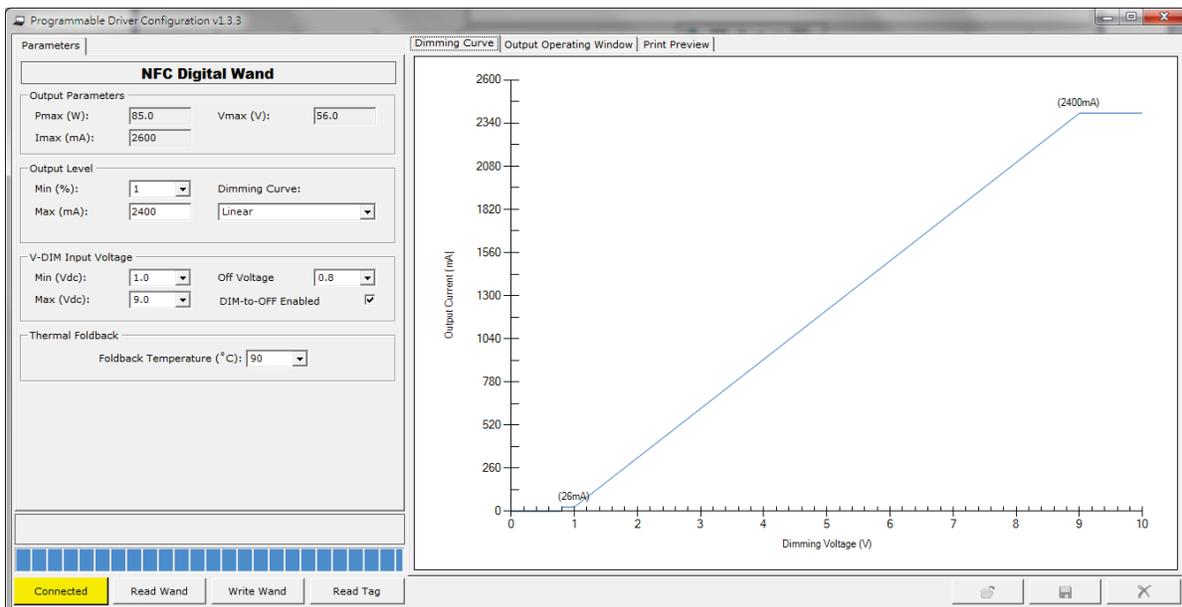


3. Double click to open the program, the main interface is as below:



Connection:

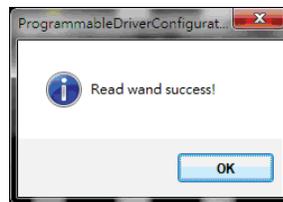
- i. Connect the “NFC Digital Wand” to computer by “Micro-USB” cable.
- ii. Press “ **Connect** ” button to start the program. If the program is successful connecting the wand, the button will change to **Connected** , while the wand will display CONN as connected status. Otherwise, it will not change, please check for USB connection.



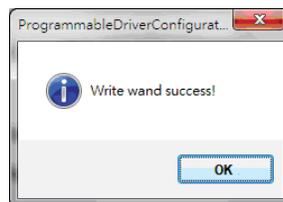
4. Data Configuration

- i. The following parameters can be configured by user:
 - Minimum output current percentage (1, 3, 5, 7, 10)
 - Maximum output current
 - Dimming Curve (Linear, Log, Inverse Log, Square-law)
 - Minimum dimming voltage (1, 1.5, 2.0)
 - Maximum dimming voltage (7.0, 8.0, 9.0)
 - Off Voltage (0.8, 1.0, 1.2)
 - DIM-to-OFF feature
 - Thermal Foldback Temperature (75, 80, 85, 90) °C

- ii. Press “Read Wand” button for getting the configured data from the wand. Once the data is successfully read from the wand, below message box will be shown:

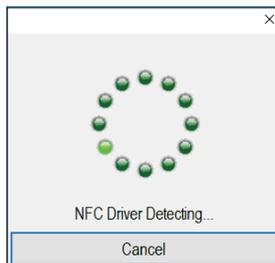


- iii. Press “Write Wand” button for loading the configurations into the wand. Once the data is successfully written to the wand, below message box will be shown:

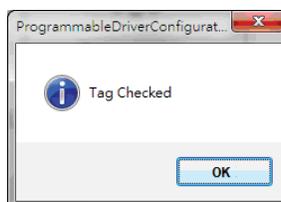


5. Read NFC Driver (Tag)

- i. Put the wand near the NFC antenna of the driver. The position of “NFC here” on the wand should be placed on the antenna of the driver.
- ii. To read the configured data of the tag, press “Read Tag” button and then the “Waiting dialogue” will be shown.



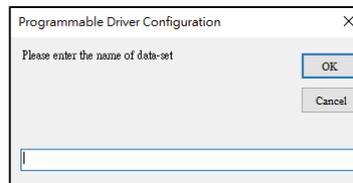
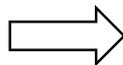
- iii. Once the driver is detected by the wand, the message box will be showing “Tag checked”.



6. Programmable Software Features Summary

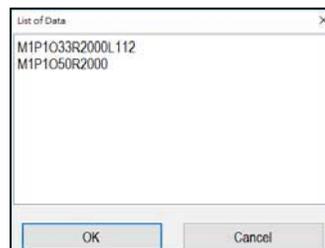
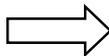
7. Data Configuration

- i. To save the configuration data in the computer, press “Save” button and then enter the name of the data-set



Enter the Name of data-set

- ii. To load the configuration data from the computer, press “Load” and then select the name of the data-set



Select data-set to load

8. Data Configuration

- i. If the wand is connected to the computer's program, press yellow "Connected" button to disconnect the wand from the program. The wand is still powered by the USB.
- ii. The digital wand can be selected running on two modes:
 - Easy Mode: Set maximum output current only
 - Advanced Mode: Program all available parameters
- iii. To select the wand operates under "Easy mode", the toggle switch should be selected as upward; to select the wand operate under "Advanced mode", the toggle switch should be selected as downward;
- iv. For "Easy mode", the controlling method is just as same as the ordinary version of NFC digital wand.
- v. For "Advanced Mode", press "Read" button on the wand to set the wand to "Ready State".
 - The wand will NOT load the data to the driver.
- vi. Press "Write" button on the wand to set the wand to "Program mode".
 - The wand will load the data into the driver while the position "NFC here" placed near the antenna of the driver.
 - 2 beep sound means data is successfully loaded into the driver.
 - 5 beep sound means data can NOT be loaded into the driver.
 - Single beep sound means the wand detects the driver with the same configuration data.



Toggle switch on side
 Upward: Easy Mode
 Downward: Advanced Mode



Ready State
Of
Advanced Mode



Program State
Of
Advanced Mode