Powering the Board and Driver Installation

- The board is powered by plugging it into the USB port of any PC. Device drivers and instructions for installation should be downloaded from **www.teamfdi.com/lcddemo-lpc2158**

Operating the Demo Software

The LCDDemo-LPC2158 Software has 4 modes of Operation. Pressing the MODE button changes the mode of operation of the unit.

1. **Repeating Text Lines works like a scrolling ad sign.**
   - The unit repeats the following text lines in order:

   NXP
   LPC2158
   USB DEMO
   I2C LCD

   The user can edit the example software provided to easily "customize" these settings

2. **Countdown Timer Mode provides a User Programmable Time**
   - Start or Stop the timer by pressing SELECT
   - Customize the countdown time by holding down SELECT for two seconds—the minutes field will then flash indicating the device is in program mode
   - Pressing the SELECT button once increases the current digit by one. If SELECT is held, the scroll speed will quickly increase to reach distant numbers
   - Pressing the MODE button will move the user to the next programmable digit. After the seconds field is set, SELECT may be pressed to start the countdown
   - The default countdown time is (15 min, 00 sec)

3. **FM Radio Display simulates Frequency Scanning**
   - Increment the simulated frequency display by pressing the SELECT button—holding SELECT will increase the scan speed quickly to reach higher frequencies
   - After reaching the highest FM frequency (107.9), the scanner will automatically wrap around to the lowest FM frequency (88.1)

4. **Custom User Message**
   - The cursor will start at the leftmost digit indicating text is ready to be received
   - On the PC to which unit is connected, bring up HyperTerminal with the default settings on the COM port of the LCDDemo-LPC2158
   - Press caps-lock and begin typing characters to display them on the screen
   - Backspace deletes characters to the left while Enter clears the screen

Programming New Software

- To download user-written software to your LCDDemo-LPC2158, go to **www.teamfdi.com/lcddemo-lpc2158**, download the programming utility, and follow the instructions