



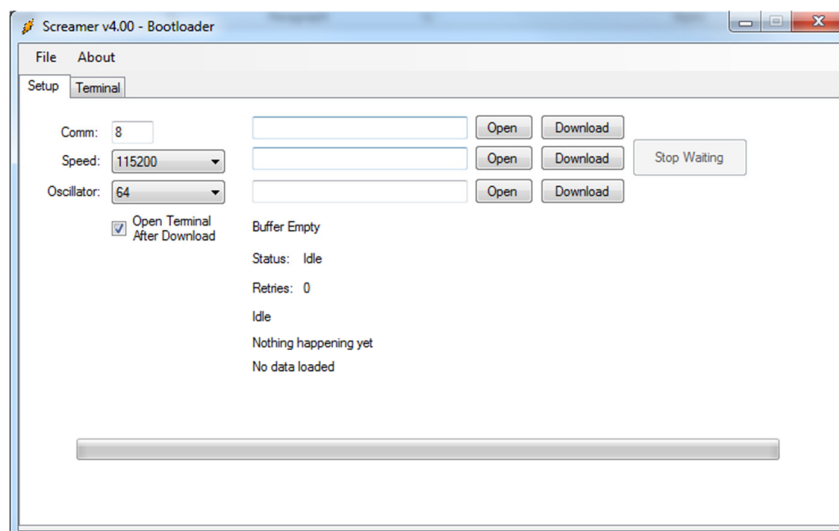
Tutorials: Updating the PLT-1001v4 firmware

## What you need

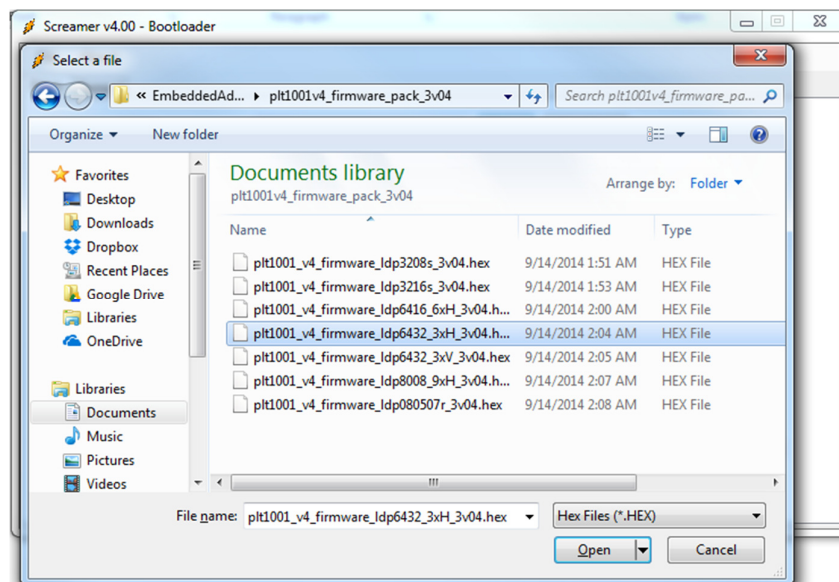
- USB-TTL Serial cable
- PLT-1001v4 LED Matrix Display Driver
- Screamer bootloader program
- PLT-1001v4 firmware pack

## Instructions

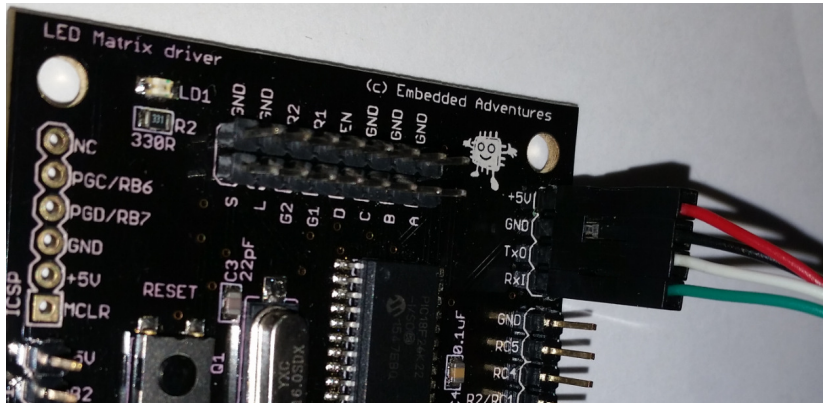
1. Open the Screamer application.
2. Select your COM port, select "115200" for speed, and "64" for oscillator.



3. Click on "Open" to browse for the appropriate firmware (.hex) for the PLT-1001v4.

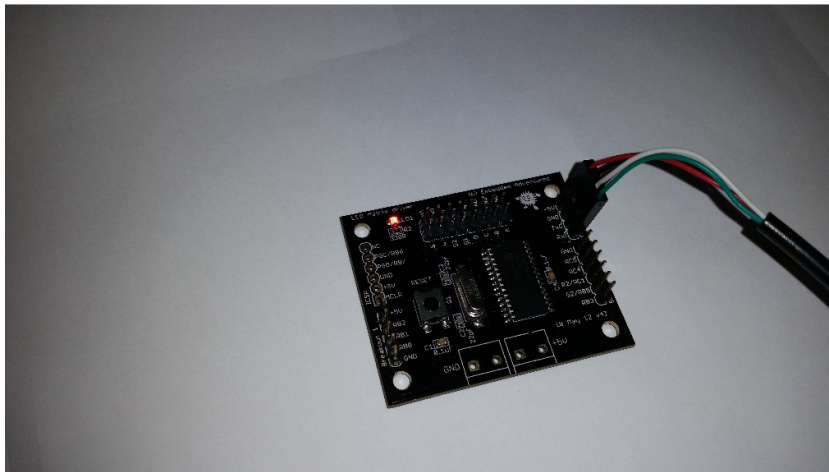


4. Connect your USB-TTL cable to the PLT-1001v4. The Tx wire from the cable should be attached to the RX pin on the PLT-1001 and the Rx wire from the cable to the TX pin on the PLT-1001.

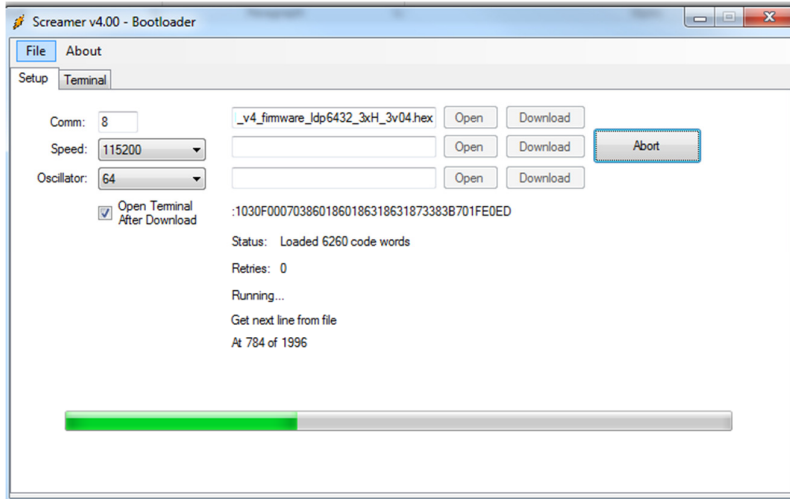


a.

5. Make sure the PLT-1001 has 5V power.
6. Press the "Download" button in Screamer.
7. The red LED flashes as the bootloader starts, and will stay lit as the firmware is being downloaded to the PLT-1001.<sup>1</sup>

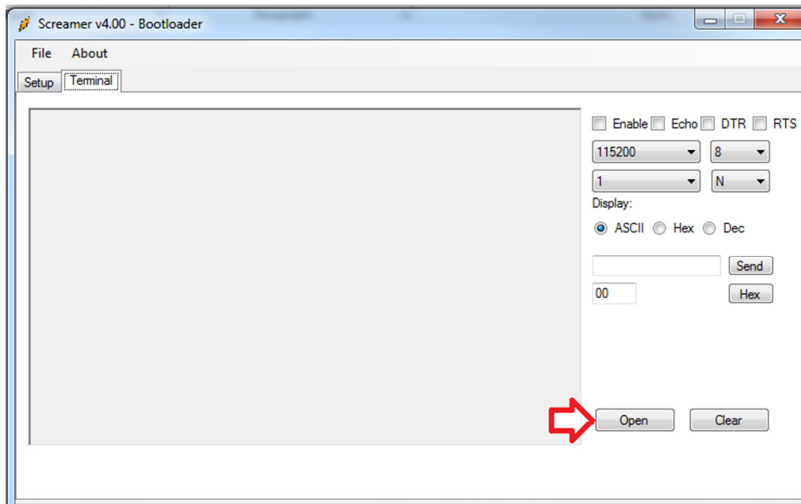


a.



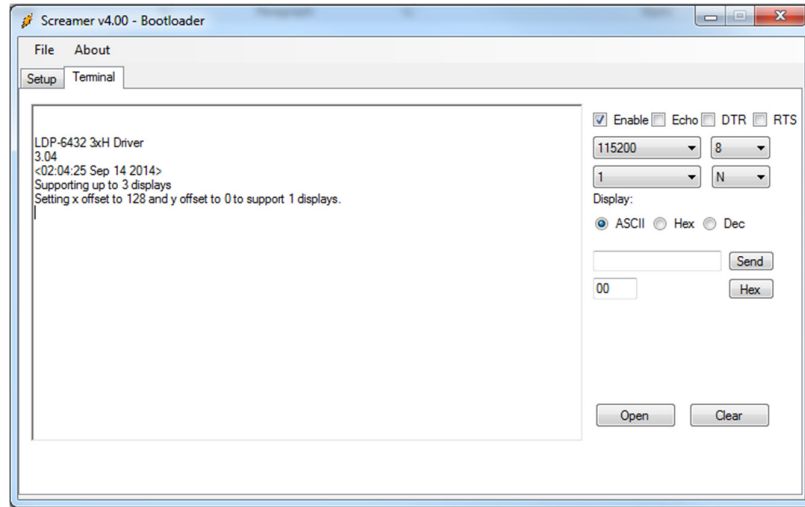
b.

- Once completed, open the serial terminal in the Screamer application.<sup>2</sup>
- Make sure the settings for serial communication are configured like in the image.



a.

- Verify that the update was successful by pressing the Reset button on the PLT-1001. The firmware should be printed as in the image.



<sup>1</sup> If the firmware update doesn't start immediately, try holding the Reset button down and releasing it once you've clicked "Download" in the Screamer application.

<sup>2</sup> If the "Open Terminal After Download" checkbox has been selected, the Screamer application will switch to the Terminal window right after the update.

If you have any problems, drop us a note at [support@embeddedadventures.com](mailto:support@embeddedadventures.com).