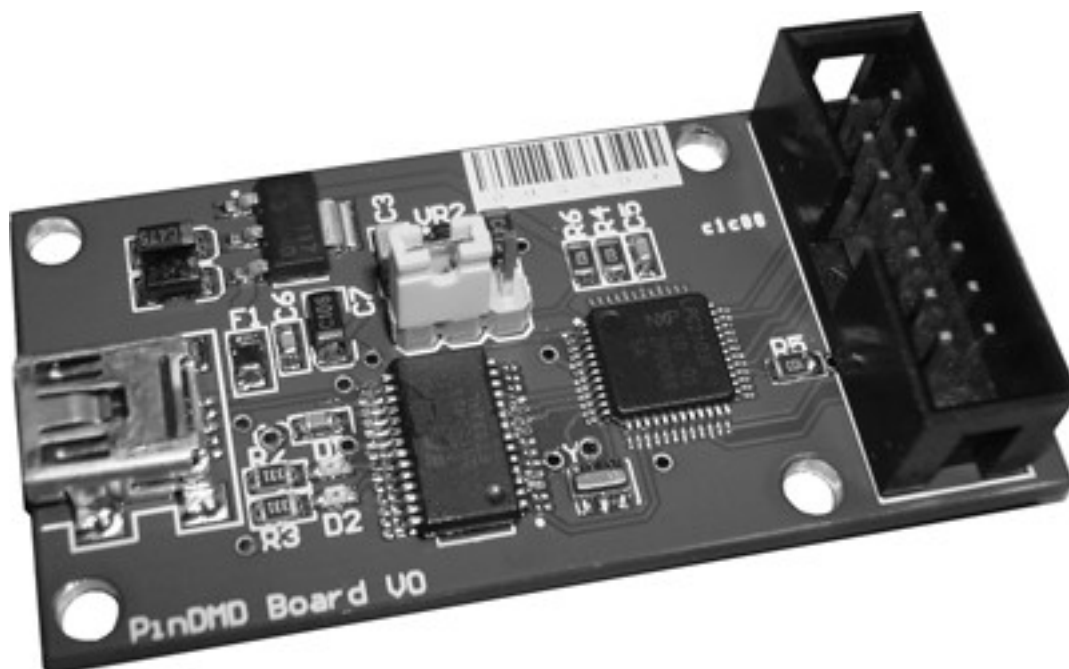pinDMD Application Note AN003
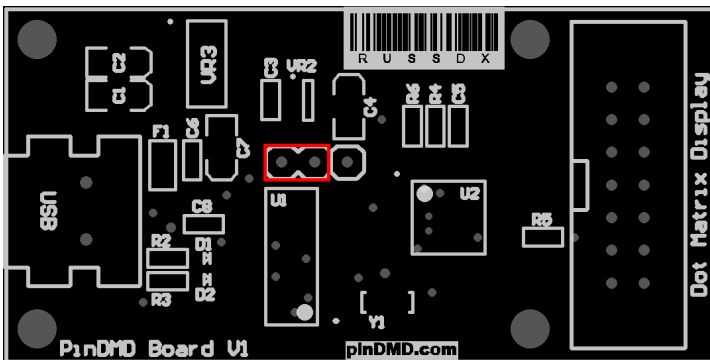
INTRODUCTION

The pinDMD's firmware can be updated to give it new features or update bug's from a previous version of the firmware. The aim of this application note is to guide you through the process of upgrading the pinDMD's firmware.
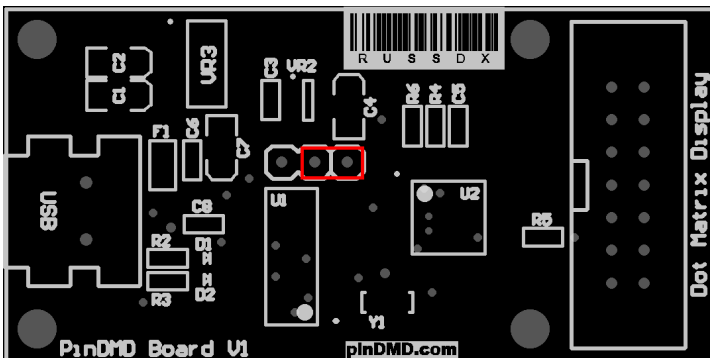
UPDATING FIRMWARE

The yellow jumper link is used to update the pinDMD firmware (Default position: LEFT)

This is the default jumper position for normal pinDMD board operation.

This is the jumper position when updating the pinDMD board firmware

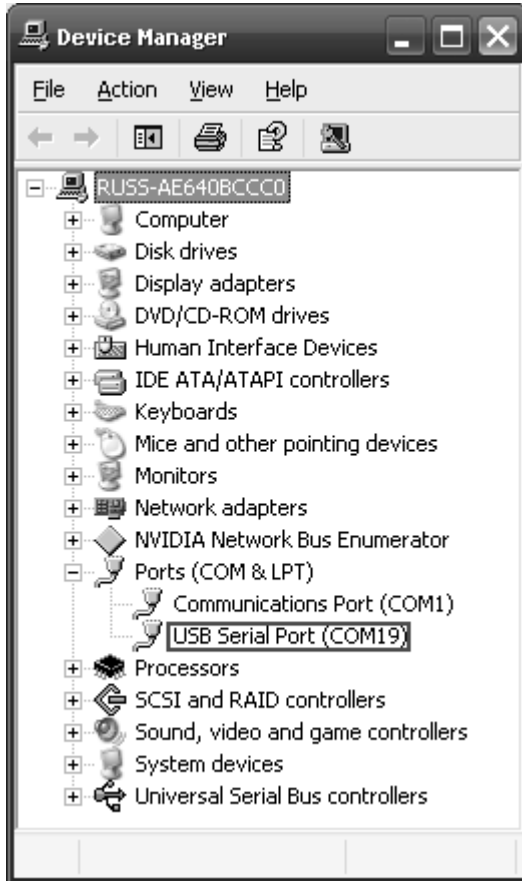**Download the pinDMD firmware update pack from firmware.zip**

Note: Make sure VPinball.exe is closed and there is no tables running.

With the pinDMD board powered up. Move the jumper into the firmware update position.

Edit the update.bat changing the com port number to the com port number of the pinDMD board
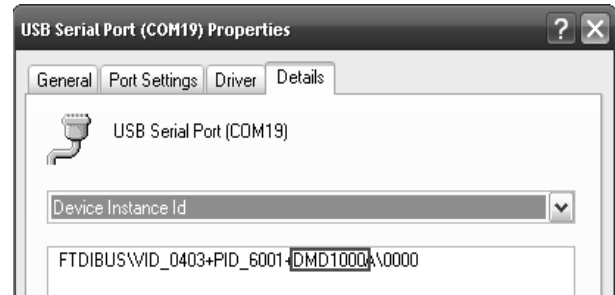

The pinDMD com port number can be found using windows Device Manager

If you are unsure which USB Serial Port belongs to the pinDMD board.

- Right click *Properties*

- Click the *Details* tab

DMD1000 should be in the *Device Instance Id*

Save and run the update.bat file by double clicking on it. If the update was successful the command window should be similar to this.

```
updating pindmd firmware
numDevs:1
pindmd_device found
C:\svnProjects\Electronics\Projects\usbDMD\ARM>load21xx 2103 dmd128x32.hex com19
Copyright 2007, Coridium Corp.,  may be used for loading Coridium Hardware, or licensees

CPU type 2103
dmd128x32.hex 7620 bytes loaded
Synchronizing
Setting oscillator
Unlock

Writing Sector 0 [4096]: ..............................................................
Writing Sector 1 [4096]: ..............................................................
Download done
```

Move the jumper back into the default run position.

Reset the pinDMD board by unplugging it then plugging it back in.

The firmware has now been updated.