UPDATED: 10/9/18

How to upgrade the Firmware on the STM32_DVM_PiHat V2 (Red) Board

This guide assumes you are Running a Pi_Star image and that you wish to upgrade firmware on a STM32_DVM_PiHat .

Log into Pi-Star's HTML configuration page, or connect to its IP address via SSH using a application such as PuTTY. Login Defaults -> usr:pi-star -- pwd:raspberry

If using SSH, proceed as below. If connecting via the HTML configurator, go to Admin->Expert->SSH Access then login.

Shutdown the Raspberry Pi

Disconnect power to Raspberry Pi

Now you need to put the board in bootloader mode:

Insert JP1 (Or short pins with tweezers or similar)

Power ON the Raspberry Pi *** NOTE: Jumper does NOT need to remain shorted once processor is in boot mode. PWR, ACT and DMR should be lit solid, NOT flashing.

*** If the LEDs are NOT in this configuration, STOP!! Re-do the short/power-on procedure described above until they are.

Wait for the Pi to reboot, log into the Raspberry Pi via SSH or via web SSH access as above; then:

The response to the above command should be:

root@pi-star(rw): reboot

```
stm32flash 0.5
http://stm32flash.sourceforge.net/
Interface serial posix: 57600 8E1
Version : 0x22
Option 1 : 0x00
Option 2 : 0x00
Device ID : 0x0418 (STM32F105xx/F107xx)
- RAM : 64KiB (4096b reserved by bootloader)
       : 256KiB (size first sector: 2x2048)
- Option RAM: 16b
- System RAM: 18KiB
Write to memory
Erasing memory
Wrote and verified address 0x0800fec8 (100.00%) Done.
Once writing is successful, do some clean up:
root@pi-star(rw): mv/etc/mmdvmhost.save/etc/mmdvmhost
***Insure JP1 is no longer shorted
```

*"re-enable" mmdvmhost