



**CB Electronics**

**TMC-1/A-Mon/Xpand**

**Release**

# Programming Guide

Version 2.0





# CB Electronics

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## Firmware Updates

The USB Port is used to update the TMC-1, A-Mon and XPand firmware. You should not need a driver as it uses a standard Midi Interface. Firmware updates are posted on the appropriate product page:

TMC-1-XMon - <http://www.colinbroad.com/cbsoft/tmc1/tmc1.html>

TMC-1-Penta - <http://www.colinbroad.com/cbsoft/tmc1/tmc1penta.html>

TMC-1-DMon - <http://www.colinbroad.com/cbsoft/tmc1/tmc1dmon.html>

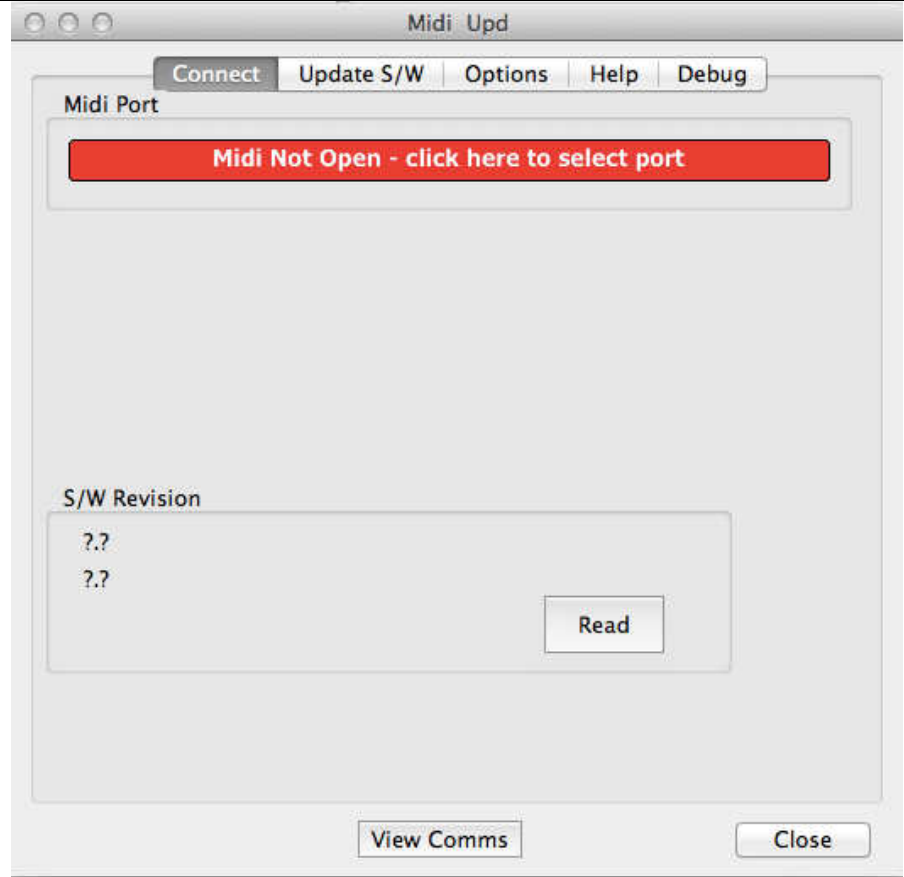
A-Mon and TMC-1-AMon - <http://www.colinbroad.com/cbsoft/amon/amon.html>

XPand - <http://www.colinbroad.com/cbsoft/amon/xpand.html>

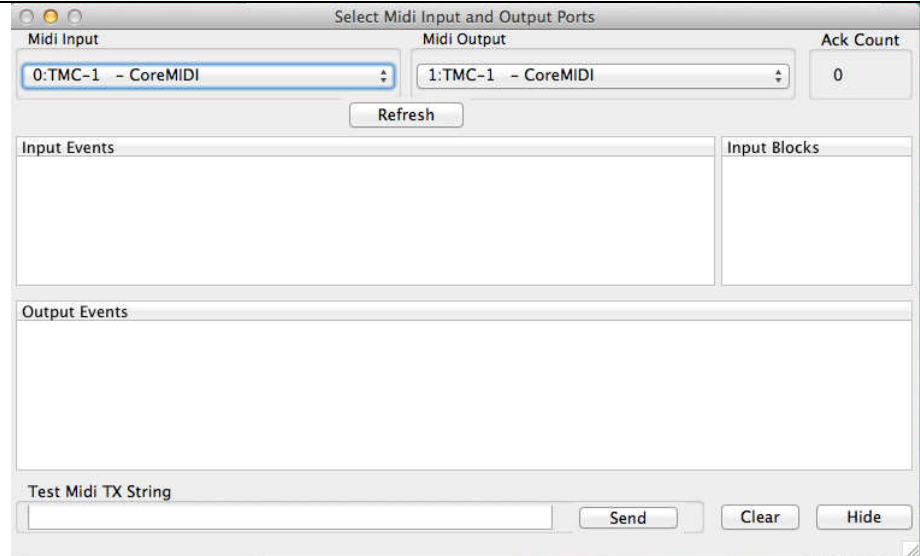
You will find both a Mac and Windows version of “midiupd” on the same page which should be used to send firmware updates to the TMC-1

Midiupd includes a help screen; you can find screen shots below

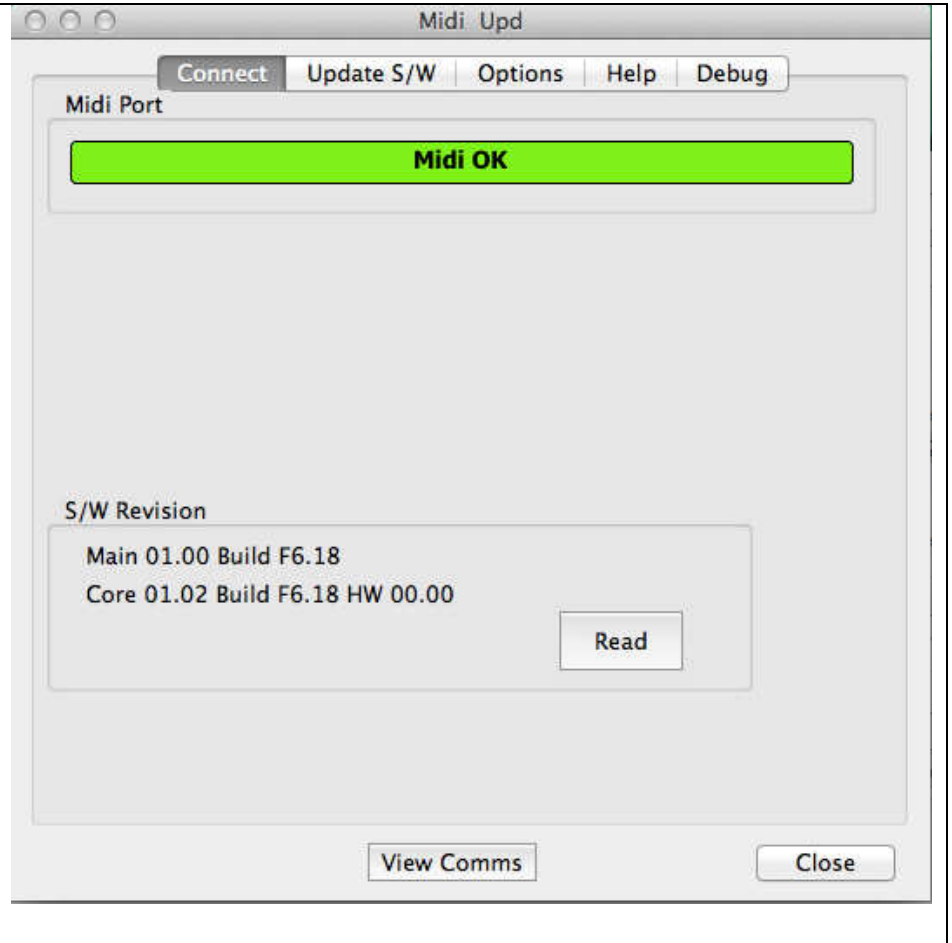
Opening Screen if Midi ports not found



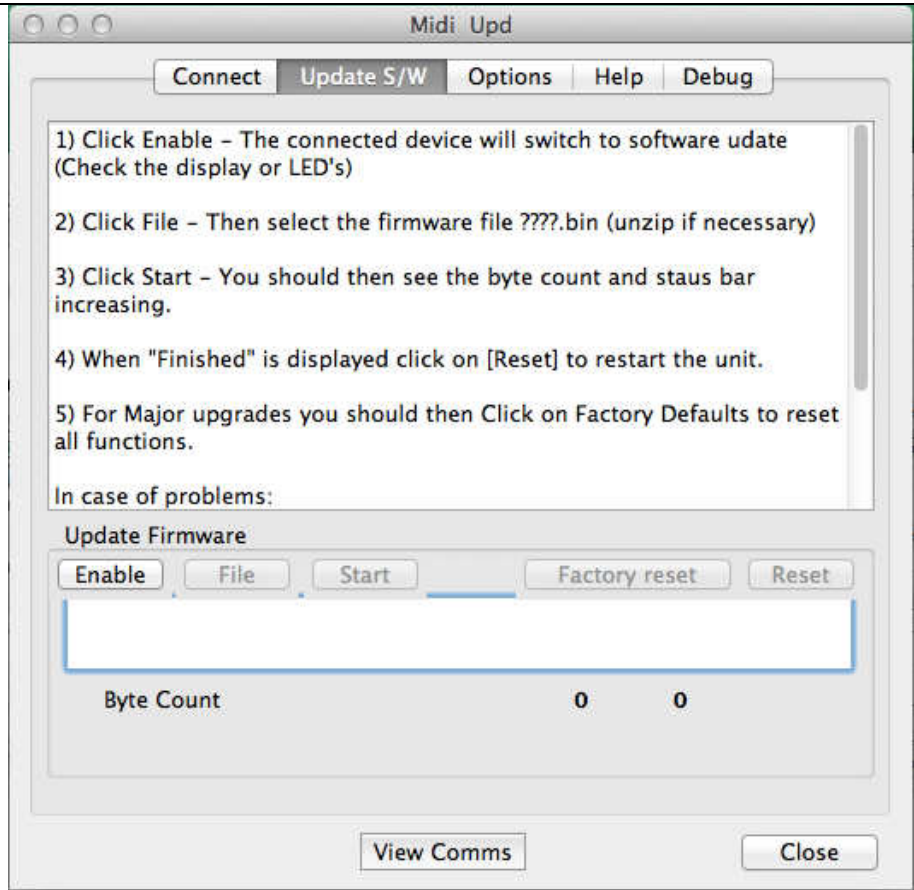
Input port selection screen with TMC-1 input and output screens.



Opening screen with Midi ports selected. The Read key has been clicked to check the current software revision



Programming Screen

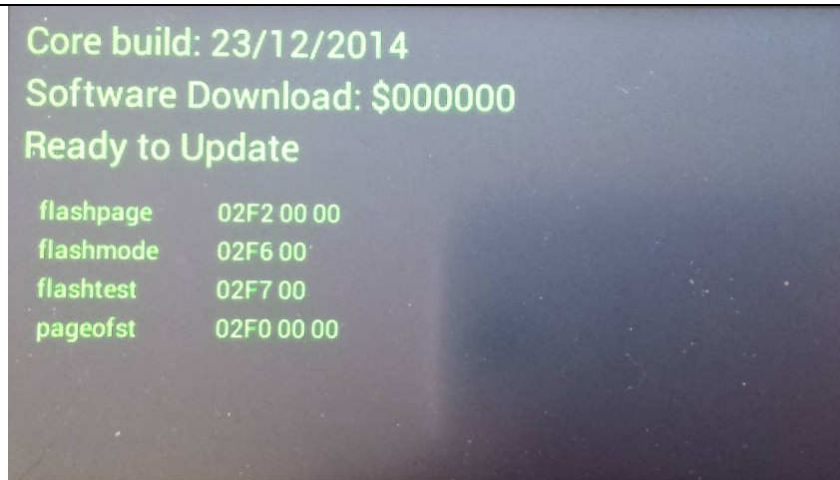


**TMC-1**

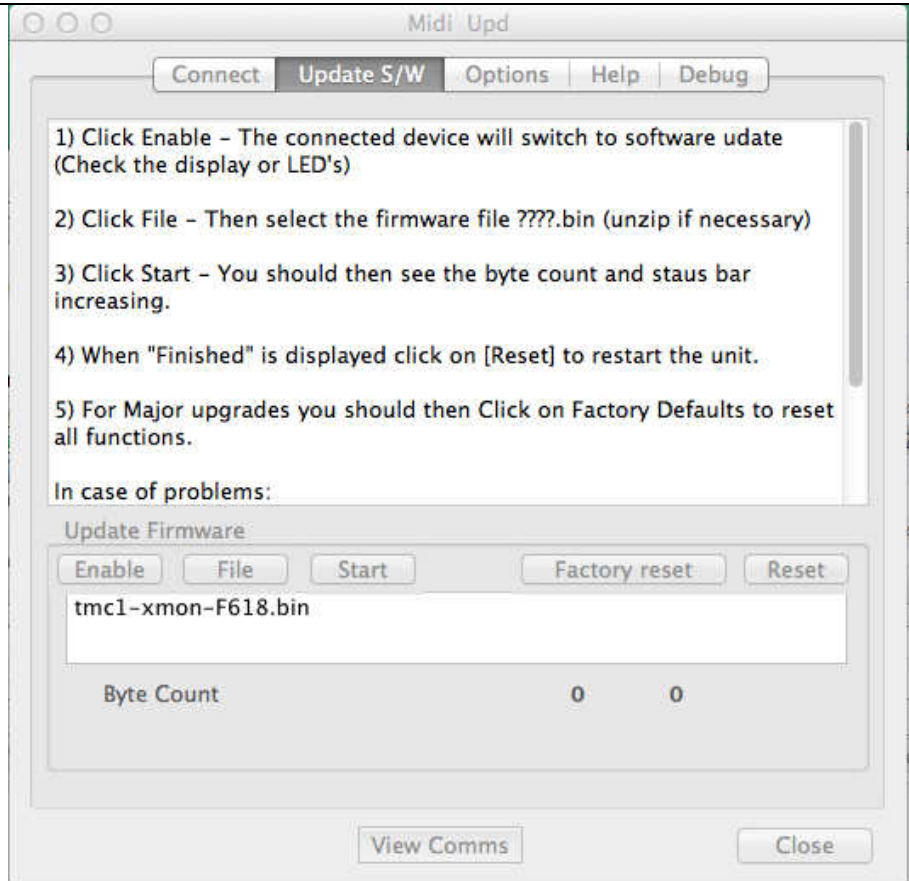
TMC-1 screen after [Enable] clicked.

**A-MON & XPAND**

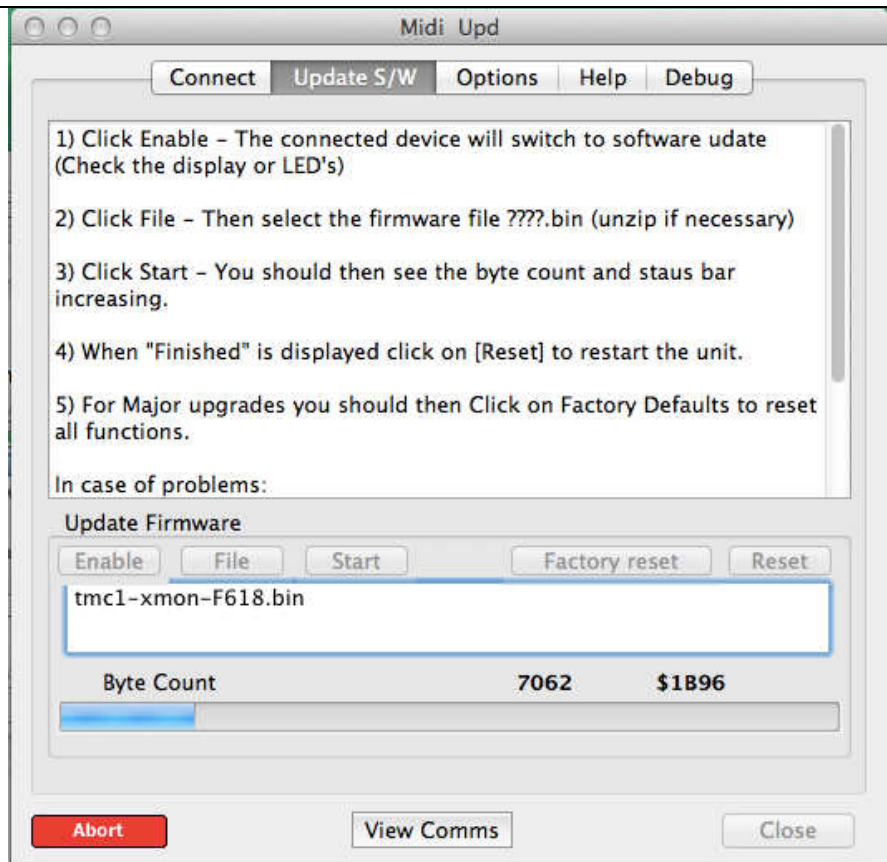
On the A-Mon and XPand the Mute LED will Flash approximately once per second – Ready to program



The firmware files are posted as a zip file; You should extract the .bin file before use.



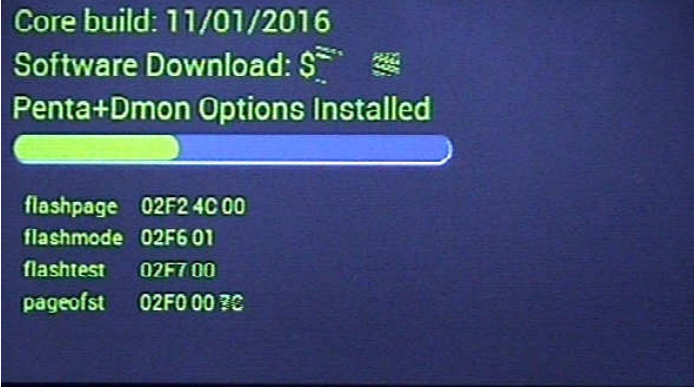
Programming





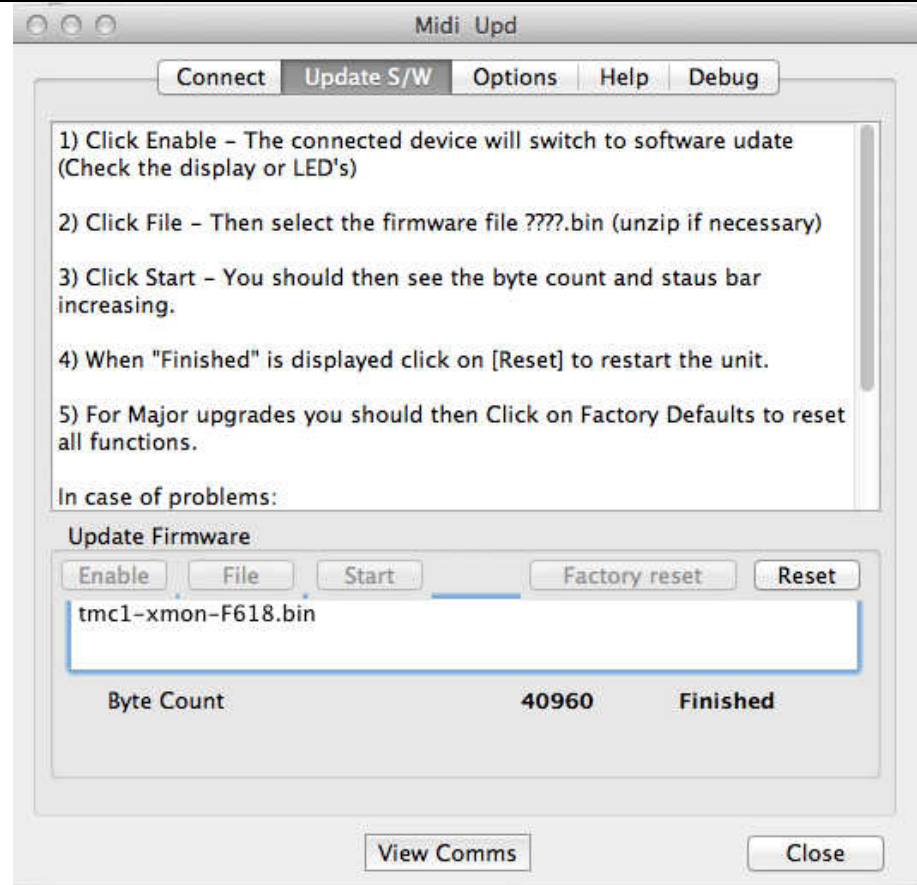
**Note:** the progress bar on the TMC-1 shows the total memory space available and will not reach the end.

The Progress bar on "midiupd" shows the update length and will be cleared once finished

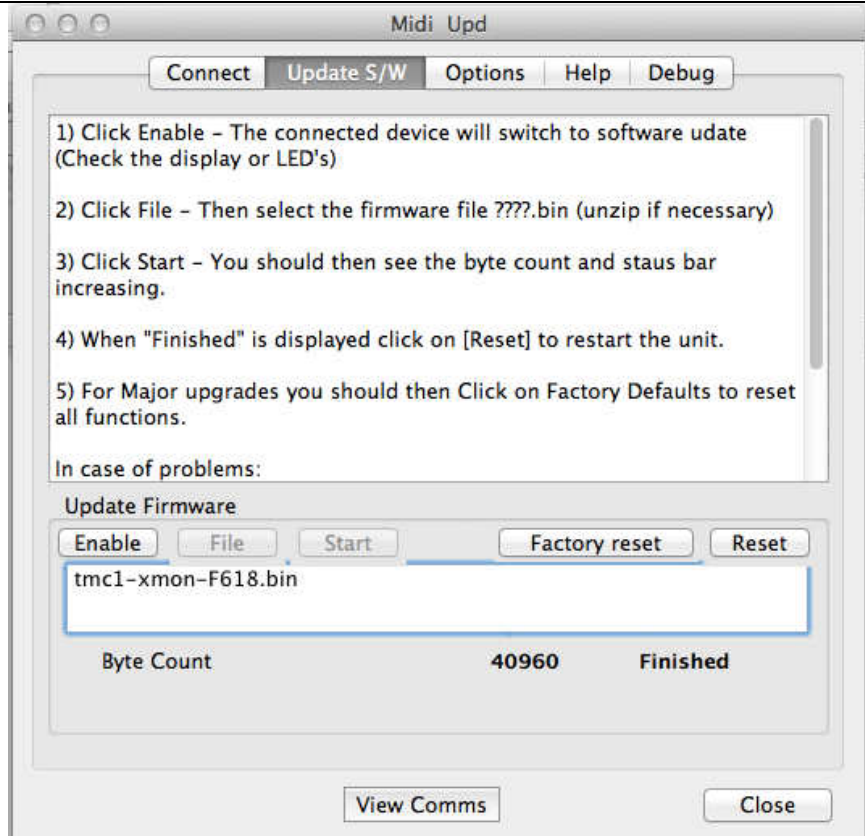


Finished,

Now depress [Reset]

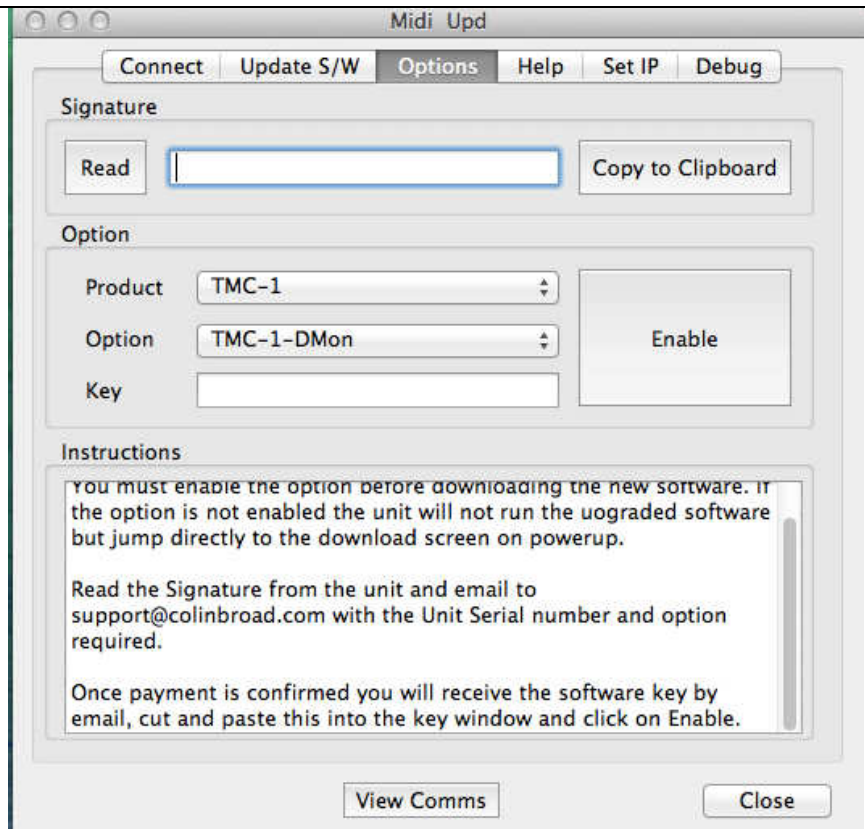


For Major upgrades you should now reset to factory defaults and then setup the User keys and menu options.



Where the TMC-1 has an ethernet port fitted an upgrade may be purchased to upgrade to TMC-1-Penta or TMC-1-DMon software. To obtain the key use midiupd to read the signature and send with the serial number to [support@colinbroad.com](mailto:support@colinbroad.com).

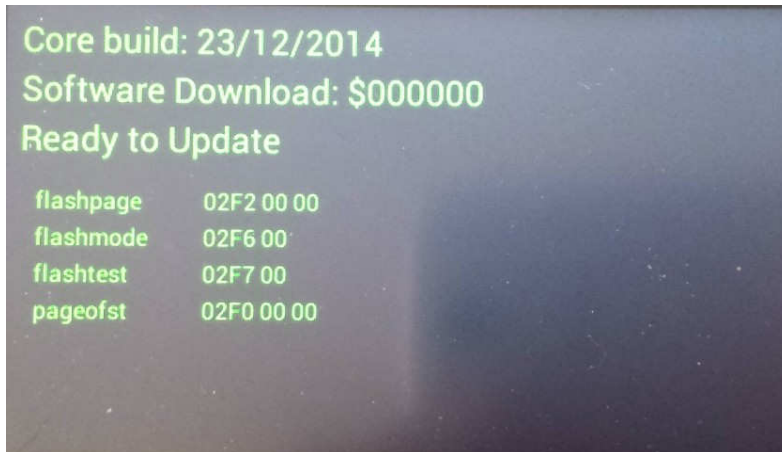
Without the correct key the software will not run. TMC-1-XMon and TMC-1-AMon software does not require a key.



## TMC-1 Recovery

In the case of power failure or other problems when updating the TMC-1 firmware.

1. Abort and exit from “midiupd”
2. Unplug the USB then reconnect whilst depressing [Select] and [Ctrl]. The Software Download screen will be displayed.



3. Restart “midiupd”. You will need to select the CBCore MIDI ports

## A-Mon and XPand Indication

The Mute LED is used to indicate the Programming mode as follows

- Mute LED Flashing approximately once per second – Ready to program
- Mute LED Flashing approximately twice per second – Programming
- Mute LED Flashing approximately once per two seconds – Finished programming

## A-Mon and XPand Recovery Mode

If for any reason there is a problem when reprogramming (eg. Power Failure) a recovery mode is provided.

To enter recovery mode, disconnect the power for at least 5 seconds, then reconnect with the Mute key depressed. You will need to reselect the USB port used by MidiUpd.

The Mute LED will flash at approximately 1 second intervals to indicate that the device is ready to program.