Atmosphere v1 Firmware Update

FW 2.0

Highlighted Improvements

- **Patch Labels**: User Banks (2-10) now display customizable patch labels when scrolling through patches.
- **Reset Settings**: Settings can now be reset by holding Key Up & Key Down during the boot up sequence.
- **Screen Rotation**: For those using Atmosphere in a landscape orientation, the screen can now be rotated to match in Atmosphere's settings.
- **UX Update**: New bootup Animation
- **'Blip' Fix**: Fixes bug where the 2nd and 3rd sounds engaged after bootup would occasionally start with a subtle 'blip' sound.
- Minor backend & performance updates.

Supported Devices

Atmosphere v1.0 - v1.6.

WARNING

Files linked in these instructions are only for Atmosphere v1. **Do NOT attempt to install these files on Atmosphere v2**. For Atmosphere v2 firmware files, visit aerospaceaudio.com/firmware

Update Instructions

Download firmware file:

01. Download firmware file: Atmpsphere_v1_fw2.0.hex

Download firmware update software:

02. Download & install TyTools (an open source firmware uploader compatible with Atmosphere).

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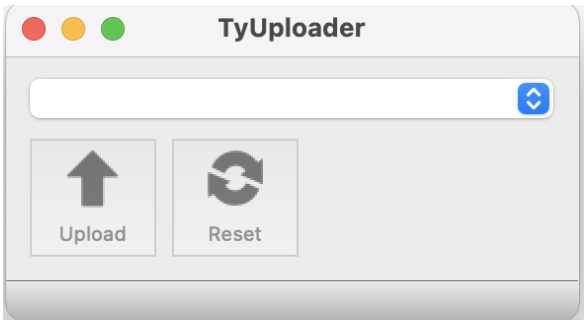
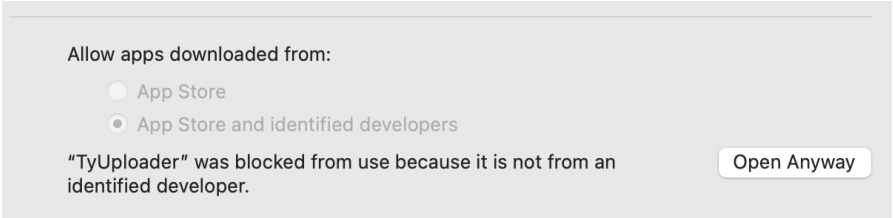
03. Open the TyUploader application.



MacOS Notes:

- When first opening TyUploader on macOS, you may get an error. Such as "TyUploader cannot be opened because the developer cannot be verified."
- To open anyway: open **System Preferences**, navigate to the **Security & Privacy** settings, under the **General** tab click "Open Anyway."



Connect Atmosphere to computer:

04. Once TyUploader is opened, connect Atmosphere to your computer via a Micro USB cable. While Atmosphere boots up, press and hold the ABORT & ENGAGE button simultaneously until the message "Ready for update" displays on Atmosphere's screen. If the message does not display, unplug and try again.

⚠️ **IMPORTANT** ⚠️

Atmosphere will receive power via the Micro USB cable. Never simultaneously power Atmosphere with a Micro USB & 9V Power Adapter Simultaneously. Doing so will overpower Atmosphere causing damage to it and other devices.

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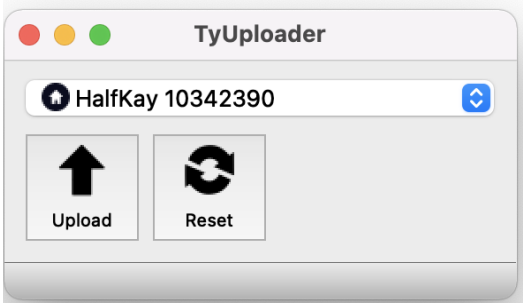
05. Once connected successfully, TyUpdater will display “HalfKay xxxxxx” or “USB Serial xxxxxx”



Note:

- If TyUpdater does not display a message like “HalfKay xxxxxxxx,” then Atmosphere is not properly connected. If a connection cannot be made, it’s likely that the Micro USB cable that you are using is ‘power only’ and does not carry data. Try another Micro USB cable until it properly connects.

Update Atmosphere’s firmware:

06. While Atmosphere is properly connected and “Ready for update,” in TyUploader click the “Upload” button and locate the previously downloaded “Atmpsphere_v1_fw2.0.hex” file.

⚠️ **IMPORTANT** ⚠️
Do NOT unplug Atmosphere until it reboots. Unplugging during a firmware update will cause problems.

07. Once Atmosphere reboots, the firmware update was successful. You can verify Atmosphere’s firmware by pressing and holding the KEY UP button during Atmosphere’s bootup screen. The current firmware version will be displayed until the ABORT button is pressed.

Enjoy:

08. Enjoy and try out all of the updates and improvements of your Atmosphere. 😁

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Additional Notes:

- Even after a successful update, the TyUploader software will briefly display an error message in red text such as "Board 'XXXXXXXX-xxxxxx' has disappeared." Just ignore this message, as this is an error message that displays for other use cases for the TyUploader software.
- Atmosphere retains all user settings after a firmware update.
- Updating the firmware does not add, delete, or change any of the sound files loaded on Atmosphere.
- Audio played from Atmosphere while connected to a computer via USB will be moderately distorted and degraded by digital interference. For best audio output, power Atmosphere via an isolated 9v power supply (but never power Atmosphere with USB and 9v simultaneously).
- Previous firmware versions:
    - 1.20 **Atmpsphere_v1_fw1.20_b1.hex**
    - 1.05 **Atmpsphere_v1_fw1.05.hex**
- Contact Aerospace Audio for any questions, suggestions, and feedback!

Instruction Manual

To learn more about Atmosphere and its new features, visit **aerospaceaudio.com/learn**

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