Latest Firmware for mObridge MOST25 8.1.1 Amplifier:

Version	0.8.6
Release Date	28th May 2024
Changes	

- Fixing intermittent startup issue where some channels were either low in gain, or not audible at all.
- Add better DRC support for subsonic frequencies.
- Numerous fixes for static white noise issue, including task priority rearranging, reduction of amp base read poll time, reorder serial port initialization/deinitialization, addition of delays, remove optimizations from beep file playback, additional underflow and overflow checking for the DMA.
- Reinstating faster SPI clocking speed for flash memory communications.
- Additional DSP resync call on restart, for further DMA synchronization safety.
- Ensure no biasing of amp power levels until confirmed on state.
- Slow down power ramping to better handle longer power cabling setups.
- Re-calibrating all speaker gain levels to ensure 0 dB throughput at 0 dB level on mObridge DSP, for stereo and mono inputs, and for woofer and subwoofer channels types.
- Fixing incorrect channel mute status for some channels in between restarts.
- Increase debug TX buffer length to ensure entire startup log is retained upon USB connection.
- Fixing Porsche PCM3.1 preset switching incorrectly on headunit volume changes.
- Fixing regression where MOST shutdown message was preventing the remote amplifier enable signal from being enabled.
- Fixing missing LR G2 preset selection via headunit.
- Add amplifier logging to the console by default, to ensure power events are always logged.
- Add ability to view amplifier logged fault counts.
- Store time alignment distances per-preset, to ensure values are remembered on re-connection to mObridge DSP.
- Re-calibrate single ended output levels at the DAC to ensure premature clipping does not occur.

Updating Your Firmware

Your mObridge MOST25 8.1.1 Amplifier is fully firmware updatable and can be updated in the following ways:

Via mObridge DSP:

Download and install mObridge DSP from mobridge.us/mobridge-dsp-pc-application

Via mObridge Updater:

Download and install mObridge Updater from mobridge.us/firmware-update/

Refer to our website at mobridge.us for further information.

Past Firmware Versions

Version	0.8.1
Release Date	25th January 2024
Changes	

- Further fixes for turn off/on pops.
- Prevent false OTW protection at startup.

Version	0.8.0
Release Date	16th January 2024
Changes	

- Further fixes for turn off/on pops.
- Fixing inability to recover from over-temperature warning gain reduction.
- Fixing center channel up-mixing occasional periodic tick.

Version	0.7.15
Release Date	4th January 2024
Changes	

- Handle MOST shutdown message for all vehicles, ensure local amplifier controller powers down.

Version	0.7.14
Release Date	2nd January 2024
Changes	

- Fix intermittent issue where post firmware update reset command fails.
- Fixing introduced inability to live tune channel gains on some channels.

Version	0.7.13
Release Date	14th December 2023
Changes	

- Revert to 32-bit streamlined mono channels. Improves volume, reduces noise.
- Lower input volume at which power rail voltage biasing begins.

Version	0.7.12
Release Date	11th December 2023
Fixes	

- Lower boosted voltage biasing volume to better ensure high power channels can keep up when varying voltage.
- Reinstate center-channel up-mix algorithms, including ADP.
- Fixing center-channel clicking artifact.
- Fixing BMW maximum volume cut-out issue.
- Fixing audible pops on channel mute/unmute.

Version	0.7.9
Release Date	17th November 2023
Fixes	

- Reinstate higher idle boosted rail voltage to 24V. This is needed for the pre-out remote out to work properly.
- Fixing issue pertaining to centre channel artifacts.

Version	0.7.8
Release Date	15th November 2023
Fixes	

- Lower under-voltage protection threshold, and low-power mode setting to account for battery voltage dips during vehicle stop-start.

Version	0.7.7
Release Date	25th September 2023
Fixes	

- Minor fixes for SPI flash device flash verification.

Version	0.7.6
Release Date	20th September 2023
Fixes	

- Fixing incorrect gain offset reset to zero when reducing input volume rapidly.
- Allow device to stay awake when only USB is plugged in (no MOST).

Version	0.7.5
Release Date	19th September 2023
Fixes	

- Update amplifier controller to tip of master branch
- Addition of fault-state hiccup'ing
- Correcting channel limiter (DRC) peak reference voltage to 5.6V
- Fixing large pop when performing firmware update or factory reset.
- Reduce gains dynamically when over-temperature warning occurs.
- Corrections to reset the 0dB gain levels, fixes for gain scaling.
- Fixing issue pertaining to center-channel default mixing algorithm.
- Some DSP profiling performance improvements.

Version	0.7.1
Release Date	15th August 2023
Fixes	

- Update amplifier controller to allow power rail offset via vehicle stereo input volume.
- Add fade-out of audio when selecting presets.
- Remove preset switch notify to head-unit on MOST, as this interferes with audio fade-in/out on preset switching.
- Improvements to reduce the likelihood of pops when resetting the system.

Version	0.7.0
Release Date	9th May 2023
Fixes	

- Additional boosting to stereo source.
- Amplifier power booster has a much faster response time, reducing the potential to clip
- Vast reduction of startup/shutdown speaker pops.
- Fixing pops on firmware update.
- Fixing factory default channel mapping
- Fixing centre-channel upmix inavailability.

Version	0.6.4
Release Date	8th August 2022
Fixes	

- Additional 6dB boost to input sources.
- Fixing the amplifier controller firmware booster voltage ramping.
- Performance enhancements for Mercedes-Benz NTG vehicles.

Version	0.6.2
Release Date	5th August 2022
Fixes	

- Fixing communication issues with baseboard amplifier firmware.

Version	0.6.0
Release Date	24th June 2022
Fixes	

- Fixing incorrect L/R input mismatch.
- Experimental 16-bit streamlined processing.
- Vastly improve the FFT resolution.
- Major performance improvements to the DSP core.

Version	0.5.18
Release Date	25th May 2022
Fixes	

- Frequency response correction implemented.
- Rework Jaguar, Land Rover G2 volume mapping to have more range.
- Additional support for Jaguar vehicles requiring two MOST25 amplifier instances.
- Fixing Audi MMI3G subwoofer regression issue.

Version	0.5.15
Release Date	7th April 2022
Fixes	

- Addition of Dynamic Range Compression (DRC).
- Addition of per-channel user-set limits.
- Addition of feedback channel RMS values to mObridge DSP.
- Extend Maximum IIR Biquad points to 16.

Version	0.5.12
Release Date	31st August 2021
Fixes	

- Update amplifier controller firmware to resolve issues with voltage spikes at startup.
- Fixing issues with MOST ConfigNok message causing no audio.

Version	0.5.11
Release Date	7th July 2021
Fixes	

- Fixing MDI null app name issue.

Version	0.5.10
Release Date	5th July 2021
Fixes	

- Fixing potential stack overflow issue regarding DSP core.

Version	0.5.9

Release Date	16th June 2021
Fixes	

- Adding explicit Toyota Supra vehicle support for mObridge DSP and mObridge Updater
- Fixing various BMW issues related to multichannel audio, ignition, and turn on/off time.
- Fixing issue with corrupted NVM regarding improper boundary checks on input delay field.

Version	0.5.8
Release Date	8th June 2021
Fixes	

- Major optimizations for baseboard power control module to enable vastly lower operating temperatures.
- 6dB boost to all mono channels to address quiet phone, nav, chimes, pdc audio.

Version	0.5.6
Release Date	24th May 2021
Fixes	

- Fixing incorrect tick time in back-end amp controller service.

Version	0.5.5
Release Date	24th May 2021
Fixes	

- Remove master, head-unit, and other EQ influences from subwoofer-assigned speakers, such that they are totally EQ'ed by their respective channel EQs.

NOTE: This release decreases subwoofer attenuation, thereby increasing default subwoofer gain.

Version	0.5.4
Release Date	14th May 2021
Fixes	

- Removing unneeded attenuation on output codecs.
- Fixing BMW loopback echo issue.
- Fixing broken fade/balance controls in Aston Martin.
- Fixing Porsche PCM3.x phone echo issue.
- Fixing improper reset of input delay in NV.

NOTE: This release vastly improves output gain range.

Version	0.5.3
Release Date	26th February 2021
Fixes	

- Fixing Audi MMI3G head-unit preset selection control.
- Fixing Audi MMI3G head-unit subwoofer gain control.

Version	0.5.0
Release Date	5th February 2021
Fixes	

- Initial stable release