mObridge → DA-G2 MOST25 → Firmware Release Notes

Latest Firmware for mObridge DA-G2 MOST25 products:

Version	2.9.2
Release Date	12th April 2024
Fixes	

- 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.
- Fixing regression where MOST shutdown message was preventing the remote amplifier enable signal from being enabled.
- Fixing missing LR G2 preset selection via headunit.
- Reinstating faster SPI clocking speed for flash memory communications.
- 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.
- Readjust Audi MMI3G volume mapping table.
- Fixing Porsche PCM3.1 preset switching incorrectly on headunit volume changes.

Updating Your Firmware

Your mObridge DA-G2 product 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	2.8.1
Release Date	18th January 2024
Fixes	

- Fixing incorrect volume table translation for some vehicles.
- Switch back to 32-bit processing on mono digital inputs.
- Additional support for Jaguar G2 vehicles.
- Adjustment to stereo input 0 dB level to account for offset.
- Addition of Volvo learning mode setting.
- Fixing turn off/on pops.
- Further fixes for center channel up-mixing occasional periodic tick.
- Fix intermittent issue where post firmware update reset command fails.
- Fixing introduced inability to live tune channel gains on some channels.

Version	2.8.0
Release Date	14th December 2023
Fixes	

- Reinstate center-channel up-mix algorithms in Pro variant, including ADP.
- Fixing center-channel clicking artifact.
- Fixing BMW maximum volume cut-out issue.
- Fixing audible pops on channel mute/unmute.
- Adding support for Jaguar G2 vehicles.
- Switch back to 32-bit streamline mono channel processing. This vastly improves the mono channel audio quality.

Version	2.7.0
Release Date	18th July 2023
Fixes	

- Further DSP performance enhancements.
- 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.
- Adding Aston Martin phone reference channel.
- Performance improvements on MB NTG4.5.
- Addition of 16-bit gains.

Version	2.6.10
Release Date	6th June 2022
Fixes	

- Fixing broken sub control in Audi MMI3G
- Some performance enhancements

Version	2.6.9
Release Date	5th May 2022
Fixes	

- Frequency response correction implemented.
- Fixing Left/Right input mismatch.

Version	2.6.7
Release Date	8th July 2021
Fixes	
• Fixing MDI null app name issue.	

Version	2.6.6
Release Date	6th July 2021
Fixes	
• Fixed stack overflow issue regarding DSP core.	

Version	2.6.4
Release Date	17th 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	2.6.0
Release Date	20th May 2021
Fixes	
• Changing Land Rover, Aston Martin, Jaguar, and Volvo DIP switch settings to be compatible with new revision 3 of the DA-G2 baseboard. Please refer to the latest DIP switch settings document.	

Version	2.5.5
Release Date	14th May 2021
Fixes	
• 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.	

Version	2.5.2
Release Date	1st March 2021
Fixes	
• Fixing Audi MMI3G head-unit preset selection control.	
• Fixing Audi MMI3G head-unit subwoofer gain control.	

Version	2.5.1
Release Date	18th February 2021
Fixes	
• Fixing logical input gain index mismatch with mObridge DSP.	
• Revamped logging type names.	
• Added support for AT25SF321B SPI flash chip.	
• Slight performance fixes for Audi MMI3G vehicle compatibility layer.	

Version	2.4.0
Release Date	20th November 2020
Fixes	
• Sub-woofers/Woofers now use IIR filtering only for the channel EQ to improve low range frequency response, and its precision when tuning.	

- Vastly improved THD on Sub-woofer/Woofer channels.
- Various performance optimizations to the DSP core.

Version	2.2.0
Release Date	16th September 2020
Fixes	

- Addition of Aston Martin vehicle variants.
- Increasing gain resolution to 0.1 dB increments.
- Middle LED now indicates present of MOST25 network.
- Sub-woofers now use IIR filters over FFT filters to improve low-frequency response.
- DA-G2.Standard product now has TOSLINK channels mapped by default.
- Various performance optimizations to the DSP core.

Version	2.1.0
Release Date	18th June 2020
Fixes	

- Fixing broken factory head-unit bass/mid/treble integration with the DSP.
- Fixing crash associated with NV memory.

Version	2.0.0
Release Date	24th April 2020
Fixes	

- Adding secondary minimal recovery application.
- Reduction in code size.
- Fixes for elusive phone echo issues.
- MOST25 network fixes for Mercedes-Benz vehicles.
- Channel count issue with Standard variant resolved.
- Boot performance vastly improved.
- **IMPORTANT NOTE:**
This firmware will become a MINIMUM version for all future firmware updates. This firmware MUST be flashed prior to upgrading to any newer firmware. Doing otherwise severely risks bricking the unit.

Version	1.2.0
Release Date	31st March 2019
Fixes	

- Fixing a variety of issues regarding mono channels, including throughput, noise, filtering.
- Improved delay on mono channels, and added a mono channel delay adjuster for fine-tuning perceived echoes. (e.g. phone audio).
- Miscellaneous MOST25 fixes.
- Addition of center-channel upmixing algorithms.

Version	1.1.0
Release Date	29th January 2019
Fixes	

- #416 Fix broken connect/disconnect timeout function on MOST25

Version	1.1.0
Release Date	15th December 2019
Fixes	

- Audio quality improvements for stereo channels, with certain crossover frequencies.
- Improve audio quality of mono channels
- Fix missing PDC audio (BMW)

Version	1.0.1
Release Date	18th September 2019
Fixes	

- Initial Release!
- Fix Analog Output Mappings
- Updated for 12 Channels of DSP Processing
- Updated for TOSLINK Support
- Fixes Factory Reset communication with mObridge DSP
- Fix Storing of DSP Parameters to NVM