



Aurawave AW100 Series

Firmware Release Notes 1.1

Version 1.1

This document applies to the following Aurawave Software Versions

1.1

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Document Scope

This document makes note of the following for the Aurawave AW100 Firmware Version 1.1:

- Bug Fixes
- New Features
- Breaking Changes
- Known Issues

Version 1.1

Bug Fixes

- System crash when the broadcast code length is set to be less than 3 characters. Broadcast code length is now validated to be empty (clear code) or at least 4 characters as per the specifications.

New Features

- Added support for the AW100 Digital board
 - Automatic detection of the presence or absence of the onboard codec chip
 - Automatic handling of the multiple external flash chips used by AW100 board variants
- Added the ability to set the USB ID (PID and VID) to enable product manufacturers to set a distinct identification for their products (Refer to the AT+USBID command).
- Added support for setting the LANGUAGE of subgroups to enable multiple language use cases (for example, streaming English and Romanian at the same time)
 - Refer to the AT+PBGRPCONF command
- Added support for setting the number of streams per subgroup
 - Refer to the AT+PBGRPCONF command
- Added support for configuration of the LOCATION of each stream to enable setting speaker location (for example, mono, left, right, center, etc).
 - Refer to the AT+PBSTRMCONF command

- Improvements to the AT interface to ensure that the board can be utilized quickly and conveniently on a range of platforms
 - For interoperability, all different combinations of line endings for different systems are now accepted
 - Support the backspace character for the entered command editing
- Devices with no USB host capabilities can now integrate AW100 by switching the AT interface to the UART1 interface of the 40-pin header by connecting Pin-19 (labeled UART_AT) of the 40-pin header to ground (please refer to the AW100 schematic).
 - For simplicity, a jumper can be inserted between adjacent pins 19 and 20.
- Devices with custom audio sources can now provide raw audio over I2S to the auxiliary port of the AW100 through the I2S interface of the 40-pin header
 - Refer to the AT+AUDDEVLIST and AT+AUDDEVSET commands to switch the audio source
 - Refer to the AW100 schematic for the I2S auxiliary port
 - I2S works in stereo, 48 KHz sampling rate, 32-bit bit-depth, master mode.
- Enhancements to the Sink Demo Mode to allow persisting the demo mode in flash memory. This enables users to set up a demo scenario where one Auraware board broadcasts and one or more other Auraware boards are set up to connect and receive the broadcast at boot. This simplifies the use of the AW100 for prototyping and demo purposes.
 - Dedicated AT command to enter Sink Demo Mode (refer to the AT+PBSNKDEMO command) with the ability to set the channel, left, or right.
 - Configuration save AT command for persisting the current mode (refer to the AT+CONFSAVE command)
 - Long press button to restore the default configuration and exit “Persistent Sink Demo Mode”
 - (or) Restore default configuration using the AT+CONFDEF AT Command
 - LED illuminates GREEN when in Sink Demo Mode (flashing when the device is searching for a broadcast and solid when it is synchronized to one)

Breaking Changes

- Once Sink Demo Mode is persisted, the board needs to be reset to the factory defaults to restore normal operation mode. This can be done either by issuing the AT+CONFDEF command or by a long press of the on-board button.

Known Issues

ID	Summary	Description
AUDIO-183	USB Audio not working with OSX USB Host	Using a computer running OSX operating system as a USB Host for Aurawave's USB Audio input will results in an initial 1-2 seconds of audio being broadcast and then silence thereafter. Known issue with nRF Connect SDK.

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