

# AXM0F343 SDK Software Release Notes

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# 1 Release AXM0F343 V1.5

## 1.1 Overview

The software release consists of:

- CMSIS Pack Version 1.5.0: **ONSemiconductor.AXM0F343.1.5.0.pack**
- AX-Configuration Tool V 1.5 (AX-Radiolab): **AX-ConfigurationUtility-v1.5.7z**

In addition, this software release has been upgraded to work with the latest

- Onsemi IDE V 4.1.2.79 (from RSL-10 software)

Target devices:

- AXM0F343-64
- AXM0F343-256

The release has been tested with different variants of the available evaluation boards:

- AXM0F343-64-915-1-GEVK rev4.0
- AXM0F343-64-868-1-GEVK rev4.0
- AXM0F343-256-915-1-GEVK rev4.0
- AXM0F343-256-868-1-GEVK rev4.0

## 1.2 ONSemiconductor.AXM0F343.1.5.0.pack

### 1.2.1 General Changes

- Tested compatibility with latest Onsemi IDE V 4.1.2.79.

### 1.2.2 Bug Fixes

- CMU drivers modified to read factory calibrated trim values from flash and to not perform runtime auto-calibration of HSOSC nor LPOSC.
- Added verbose output for error reporting by axradio\_init().
- Minor changes to all examples as part of code/comment clean-up.

## 1.3 AX-Configuration Utility V1.5

### 1.3.1 General Changes

- Tested compatibility with latest Onsemi IDE V 4.1.2.79.

### 1.3.2 Bug Fixes

- Updated template firmware to implement bugfixes from CMSIS Packs 1.4.0 and 1.5.0.

## 1.4 Known Bugs and Workarounds

- Single step debugging across the project code may lead to error “Can’t find a source file”. See Forum post for proposed workaround. [FAQ: How to debug AXM0F343 code generated in AX Configuration Utility and imported in ON IDE? - Connectivity / Sub-GHz - onsemi Community Forums](#)
- Projects are not flash-able if the example has been re-named upon importing. See Forum post for proposed workaround. [FAQ: Renaming projects from the AXM0F343 CMSIS Pack within Onsemi IDE - Connectivity / Sub-GHz - onsemi Community Forums](#)
- Cannot load a project previously generated with AX-Configuration Utility. See Forum post for proposed workaround [FAQ: "Could not read configuration file" error with AX Configuration Utility - Connectivity / Sub-GHz - onsemi Community Forums](#)

## 2 Release AXM0F343 V1.4

### 2.1 Overview

The software release consists of:

- CMSIS Pack Version 1.4.0: **ONSemiconductor.AXM0F343.1.4.0.pack**
- AX-Configuration Tool V 1.4 (Radiolab): **AX-ConfigurationUtility-v1.4.7z**

In addition, this software release has been upgraded to work with:

- Onsemi IDE V 3.4.0.48 (from RSL-10 software)
- CMSIS Pack V 5.8.0 (from ARM)
- ARM GCC Compiler 10-2020-q4-major

Target devices:

- AXM0F343-64
- AXM0F343-256

The release has been tested with different variants of the available evaluation boards:

- AXM0F343-64-915-1-GEVK rev4.0
- AXM0F343-64-868-1-GEVK rev4.0
- AXM0F343-256-915-1-GEVK rev4.0
- AXM0F343-256-868-1-GEVK rev4.0

### 2.2 ONSemiconductor.AXM0F343.1.4.0.pack

#### 2.2.1 General Changes

- Readme files and manuals updated with the new company logo.

#### 2.2.2 Bug Fixes

- Resolved core issue preventing projects created using older ONSemiconductor.AXM0F343.1.3.0 pack to run under the new release of Onsemi IDE V.3.4.0.48.

- The bug showed up as multiple linker errors. See [FAQ: Linker errors \("multiple definition"\) when building AXM0F343 examples with Onsemi IDE 3.4.0 - Connectivity / Sub-GHz - onsemi Community Forums](#)
- This new pack 1.4.0 supports the updated ARM Compiler 10.2, thus fixing the problem.
- Fixed the issue that prevented code to properly execute when using a different TCXO/XTAL with a different frequency than the one mounted by default on the GEVB boards.
  - All examples were modified to allow flexible selection of EXT SYSCLK frequency (e.g. change from default 48 MHz TCXO mounted on GEVB boards to a 16 MHz TCXO).
- Fixed the issue that prevented some boards from working using the external LPXOSC.
  - The CMU driver has been updated to dynamically select the right LPXOSC\_GM to properly drive an external fork oscillator.
- Fixed the Timer example malfunction when selecting a different clock source.
  - Driver was updated to allow flexible selection of clock source. In addition, App.c was modified to toggle a GPIO for each timer interrupt, and updated the readme file with more explanations.
- ADC and CMU drivers modified to read factory calibrated trim values from flash.
- Minor changes to all examples as part of code/comment clean-up.

## 2.3 AX-Configuration Utility V1.4

### 2.3.1 General Changes

- The GUI, readme files and manuals, updated with the new company logo.
- Eclipse IDE V3.4.0.48 is now used for project compilation/download.
- ARM.CMSIS.5.8.0 and AXM0F343.1.4.0 packs set as requirements.

### 2.3.2 Bug Fixes

- Documented a universal workaround to allow debugging projects generated with the AX-Configuration Utility.
  - See Section 3.1 “Import Eclipse Projects” in the manual *DOCU/AX-ConfigurationUtilityUserManual.pdf*.

## 3 Release AXM0F343 V1.3

### 3.1 Overview

The software release consists of:

- CMSIS Pack Version 1.3.0: **ON Semiconductor.AXM0F343.1.3.0.pack**
- AX-Configuration Tool V 1.3 (Radiolab): **AX-ConfigurationUtility-v1.3.7z**

In addition, this software release has been upgraded to work with:

- Onsemi IDE V 3.2.3.10 (from RSL-10 software)
- CMSIS Pack V 5.6.0 (from ARM)
- ARM GCC Compiler 8-2019-q3-update

Target devices:

- AXM0F343-64
- AXM0F343-256

The release has been tested with different variants of the available evaluation boards:

- AXM0F343-64-915-1-GEVK rev4.0
- AXM0F343-64-868-1-GEVK rev4.0
- AXM0F343-256-915-1-GEVK rev4.0
- AXM0F343-256-868-1-GEVK rev4.0

### 3.2 ON Semiconductor.AXM0F343.1.3.0.pack

#### 3.2.1 General Changes

- First public release of the AXM0F343 CMSIS pack.

#### 3.2.2 Bug Fixes

- No updates

### 3.3 AX-Configuration Utility V1.3

#### 3.3.1 General Changes

- First public release of the AX-Configuration Utility GUI tool.

#### 3.3.2 Bug Fixes

- No updates.

## 4 Revision History

Rev.	Date	Pages	Comments
1.0 / 1.1 / 1.2	<i>Internal</i>	-	<i>Internal releases.</i>
1.3	Mar 2021	3	Release Notes for AXM0F343 V 1.3
1.4	Oct 2021	5	Release Notes for AXM0F343 V 1.4
1.5	May 2022	6	Release Notes for AXM0F343 V 1.5