

# ATM2/ATM3/ATM33 Wireless SoC Family SDK5.1.1

## Release Notes

**SUMMARY:** This document provides the release notes for Atmosic SDK 5.1.1, a patch release for SDK 5.1.0. for ATM33 product families. It lists the new features added in this release.



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## 1. Purpose

This release note provides details on new features/fixes/known issues as part of the Atmosic Software Development Kit (SDK). This Atmosic SDK 5.1.1 is a patch release applicable to the ATM33 family of devices only and should be installed onto SDK5.1.0. The SDK5.1.0 supports Evaluation Kit (EVK) platform based on following devices:

ATM2 Family	ATM3 Family	ATM33 Family
ATM2201	ATM3201	ATM3330e
ATM2202	ATM3202	ATM3330
ATM2221	ATM3221	
ATM2251	ATM3251	

### 1.1 OS, IDE and tool chains

This section listed the OS and debug tools supported:

Category	Features Supported
OS	MacOS (x86)
IDE	Keil with ARM C++ compiler
	IAR Workbench
	SEGGER Embedded Studio
Debug Tools	J-Link Debugger (on board)
	OpenOCD debug
OTA Support	OTA support (non-secure only)

Please visit Atmosic Support website for the following documents:

- ATM2/ATM3/ATM33 Wireless SoC Family SDK5.1.0 Release Notes
- ATM33 Series SDK User Reference Manual
- EVK User Guide for ATM3330e

- ATM3330e-3xxxxx Hardware Release Notes
- ATM3330-3xxxxx Hardware Release Notes
- Register specification for ATM3330e/ATM3330-3xxxxx
- Digital Biquad Filter with Software Implementation for ATM3330e/ATM3330 Application Note
- Complete Doxygen-style reference of all APIs provided by this SDK
- ROM Bluetooth LE functionality, including GAP, GATT, and various profiles

Additional references for developing applications using third party IDE Software:

- ATM2/ATM3/ATM33 IAR Workbench User Guide
- ATM2/ATM3/ATM33 Keil MDK Configuration Guide
- ATM2/ATM3/ATM33 SEGGER Embedded Studio User Guide

Please contact Atmosic FAE for access credentials to the Atmosic Support Website.

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## 2. New Features / Functionality

### 2.1 SDK and Application Version

SDK and application versions are displayed as part of the boot up messages:

@009404ab SDK Version: 5.1.1

@00940504 APP Version: 0.0.0.9

- SDK version is located in version.h folder in <ROOT>/atmosic\_sdk
- App version can be specified using APP\_VERSION defined during make.

### 2.2 Supported Devices

This release supports the ATM33 devices as listed below:

ATM33
ATM3330E-3DCAQN
ATM3330-3DCAQN

## 3. Major Changes / Bug Fixes

- Major changes and bug fixes in SDK 5.1.1 include:
  - ATM33 family of devices
    - Support for 32 kHz Internal RC

Please refer to SDK 5.1.0 Release notes for a full list of features.

## 4. SDK Platform Working Directory

Following is the Atmosic SDK platform working directories for ATM33.

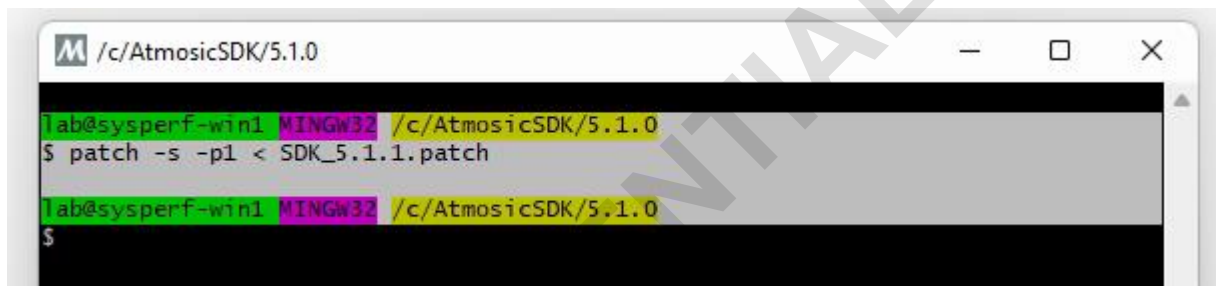
- 1) For ATM3330/ATM3330e devices use the directory:
  - a) platform/atm33/ATM33xx-3

## 5. Installing the Patch

This patch requires SDK5.1.0 to be already installed on the system.

Patch can be applied in the following two ways:

- 1) Using the Patch Tool
  - a) Extract the SDK5.1.1 file
  - b) Copy SDK\_5.1.1.patch to SDKRoot\_5.1.0
  - c) Open msys shell and go to SDKRoot\_5.1.0 directory
  - d) Use the command `patch -s -p1 < SDK_5.1.1.patch`
- 2) Merge Manually
  - a) Compare SDKRoot\_5.1.0 with SDK\_5.1.1\_source folder



The screenshot shows a terminal window titled "/c/AtmosicSDK/5.1.0". The prompt is "lab@sysperf-win1 MINGW32 /c/AtmosicSDK/5.1.0". The user enters the command "patch -s -p1 < SDK\_5.1.1.patch". The prompt returns to "lab@sysperf-win1 MINGW32 /c/AtmosicSDK/5.1.0".

## 6. Limitations and Known Issues

Refer to SDK5.1.0 release notes for a complete list of known issues.

## Revision History

Date	Version	Description
June 24, 2022	1.00	Initial version created.

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