Flash Programming Tool
Release Notes

SUMMARY: This document provides the release notes for Atmosic Flash programming Tool software. It covers package information and new functionality of the release.

Atmosic™

Table of Contents

1. Purpose

This release note provides details on new features/fixes/known issues as part of the Atmosic Flash Programming Tool software release. This software supports the following devices:

ATM2	ATM3	ATM33/e	ATM34
ATM2201-x1x	ATM3201-x1x	ATM3330e-5DCAQN	ATM3430E-5YCAQN
ATM2202-x1x	ATM3202-x1x	ATM3330-5DCAQN	ATM3405-5WCAQK
ATM2221-x1x	ATM3221-x1x	ATM3325-5DCAQK	ATM3405-5PCAQK
ATM2231-x1x	ATM3231-x1x	ATM3325-5LCAQK	ATM3405-5YCABV
ATM2251-x1x		ATM3325-5DCACM	ATM3405-5PCABV

2. New Features/Functionality

Version 1.0.0.32

Changes
1. Check if the ATM file has changed before programming and reload if necessary. 2. Fix the issue where a regenerated NVDS file becomes abnormal when the tag data is empty. 3. Added chip_name field and validation mechanism (3405-PQK-5 / 3405-WQK-5) 4. Added support for 3405-PBV-5 5. Separated the erase RRAM process from the erase flash process to avoid issues where RRAM cannot be properly erased when stack flash is not supported.

Version 1.0.0.30

Changes

1. Exclude NVDS checks (only verify FACTORY_DATA) when detecting the Zephyr SDK.
2. Sync Fast load ping-pong mode.
3. Add secure debug key checksum verification to the flashing process.
4. Modified the flashing process to support flashing to external flash beyond just the user data bin.
5. The Tool can't recognize the BOARD=ATMKBD atm file.
6. EVK is not detected by Flash Programming in non-English operating systems.
7. Sync modify fast_load erase flash process (Increase erasing speed).
8. Enhancement for BOARD and JLinkDevice mapping.
9. Fix the missing driver files issue.
10. Support burning Zephyr's image.
11. Support secure debug unlock with USE_STATIC_CHALLENGE.

Version 1.0.0.25

Changes

1. Supports increased external Flash programming speed.
2. Move the authenticating process from call_openocd.bat to the TCL script.
3. Unable to retrieve chip information properly when JLINK environment parameters are not configured.
4. Non-selected NVDS and BD_addr, BD_addr will be erased.
5. Unable to retrieve chip information properly when JLINK environment parameters are not configured.

Version 1.0.0.24

Changes

1. No need to pop up the remove window during uninstall.
2. Device Debug windows add local time.
3. Corrected the Address mapping error after removing x0x.
4. Remember the last open atm file location.
5. Revise the logic for the burn NVDS file case.
6. Synchronize the load bins process in OpenOCD with the MPTOOL.
7. Update the J-Link device name and Improve the occasional failure to read Flash ID through J-Link.
8. Separate ATM34x5 to ATM3405 and ATM3425.

Version 1.0.0.23

Changes
1. Modify fast_load process. 2. Delete ATM2/3 older chip revision-related settings.

Version 1.0.0.22

Changes
1. Reverse the BD address writing order.

Version 1.0.0.21

Changes
1. Fixed boot fails after burning success, need to click reset key again.

Version 1.0.0.20

Changes
1. Support ATM34.

Version 1.0.0.19

Changes
1. Fixed can't get device information when secure debug enabled. 2. Fixed can't control HID_remote after burning success. 3. Add a timeout mechanism when secure debug is enabled.

Version 1.0.0.18

Changes
1. Support the programming of Secure Debug EVB (with the option to select Secure Debug key file and port). 2. Image burning is compatible with SDK 5.4.0.

Version 1.0.0.17

Changes
1. Fixed the debug log function to prevent crashes when logging excessive data.

Version 1.0.0.16

Changes
1. Add edit BD address function.

Version 1.0.0.15

Changes
1. Ensure the PWD reset process is executed after the J-Link program completes.

Version 1.0.0.14

Changes
1. Users can exclude specific tags when burning NVDS. 2. Fixed the 'unknown property border-style' issue upon tool startup. 3. Add the OTA erase process in the J-Link script for ATM2/3. 4. The burning method only supports burning All/Without NVDS/NVDS Only.

Revision History

Date	Version	Description
Aug 15, 2025	1.0.0.32	Updated with Flash Programming Tool Release 1.0.0.32.
Mar 14, 2025	1.0.0.31	Updated with Flash Programming Tool Release 1.0.0.31.

Jan 17, 2025	1.0.0.30	Updated with Flash Programming Tool Release 1.0.0.30.
Feb 15, 2024	1.0.0.25	Updated with Flash Programming Tool Release 1.0.0.25.
Dec 26, 2023	1.0.0.24	Updated with Flash Programming Tool Release 1.0.0.24.
Nov 21, 2023	1.0.0.23	Updated with Flash Programming Tool Release 1.0.0.23.
Nov 8, 2023	1.0.0.22	Updated with Flash Programming Tool Release 1.0.0.22.
Oct 30, 2023	1.0.0.21	Updated with Flash Programming Tool Release 1.0.0.21.
Oct 25, 2023	1.0.0.20	Updated with Flash Programming Tool Release 1.0.0.20.
Sep 5, 2023	1.0.0.19	Updated with Flash Programming Tool Release 1.0.0.19.
July 27, 2023	1.0.0.18	Updated with Flash Programming Tool Release 1.0.0.18.
Jun 26, 2023	1.0.0.17	Updated with Flash Programming Tool Release 1.0.0.27.
May 30, 2023	1.0.0.16	Updated with Flash Programming Tool Release 1.0.0.16.
May 18, 2023	1.0.0.15	Updated with Flash Programming Tool Release 1.0.0.15.
Apr 17, 2023	1.0.0.14	Updated with Flash Programming Tool Release 1.0.0.14.

ATMOSIC TECHNOLOGIES – DISCLAIMER

This product document is intended to be a general informational aid and not a substitute for any literature or labeling accompanying your purchase of the Atmosic product. Atmosic reserves the right to amend its product literature at any time without notice and for any reason, including to improve product design or function. While Atmosic strives to make its documents accurate and current, Atmosic makes no warranty or representation that the information contained in this document is completely accurate, and Atmosic hereby disclaims (i) any and all liability for any errors or inaccuracies contained in any document or in any other product literature and any damages or lost profits resulting therefrom; (ii) any and all liability and responsibility for any action you take or fail to take based on the information contained in this document; and (iii) any and all implied warranties which may attach to this document, including warranties of fitness for particular purpose, non-infringement and merchantability. Consequently, you assume all risk in your use of this document, the Atmosic product, and in any action you take or fail to take based upon the information in this document. Any statements in this document in regard to the suitability of an Atmosic product for certain types of applications are based on Atmosic's general knowledge of typical requirements in generic applications and are not binding statements about the suitability of Atmosic products for any particular application. It is your responsibility as the customer to validate that a particular Atmosic product is suitable for use in a particular application. All content in this document is proprietary, copyrighted, and owned or licensed by Atmosic, and any unauthorized use of content or trademarks contained herein is strictly prohibited.

Atmosic™

Atmosic Technologies | 2130 Gold St #200 | San Jose, CA 95002
www.atmosic.com