Flash Programming Tool

User Guide

SUMMARY: This document describes the functionality and instructions on how to use the Atmosic Flash Programming Tool.





Doc. No. ATM-UGFPT-0051

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Table 7-1 Error Message Description

Acronyms and Abbreviations

Acronyms	Definition
BD	Bluetooth Device
EVK	Evaluation Kit
NA	Not available
NVDS	Non-volatile Device Storage
RDI	Remote Debug Interface
SWD	Serial Wire Debug
SWDIF	Serial Wire Debug Interface

1. Overview

The Atmosic Flash Programming Tool supports different hardware interfaces (such as FTDI/RDI/J-Link) of various platforms using the same set of tools, without the need to switch between multiple toolsets. The Tool integrates two programming methods, OpenOCD and J-Link script, and automatically determines which method to use based on the hardware and driver used.

2. Install Flash Programming Tool

RuntheFlashProgrammingToolexecutable,AtmosicFlashTool_Inst_202xxxxx_v1.0.0.x.exe.After installing, invoke the FlashProgramming Tool from the Start Menu/AtmosicFlashTool.



Note: This Flash Programming Tool is supported in Windows Only.

3. Features

The Flash Programming Tool can be divided by features:

- SWD Interface
- SWD Interface Information
- ATM File
- Clear Log
- Program



- Log Information
- Export Log
- Setup Environment

3.1 SWD Interface

The Flash Programming Tool detects connected devices and retrieves their device IDs to add to the list. Currently, the supported hardware interfaces are **RDI**, **FTDI**, and **J-LINK**. Devices without installed drivers will not be included in the list.

Atm Flash programm	ning Tool - V1.x.x.x			- 🗆 ×
File Settings				
Flash Progr	amming Tool		At	mosic™
SWDIF JLINK	(8725) 🗾			Refresh
Information -			ile	
SWDIF SN:	000900028725	Enat Path	HID_remote_a	arch.atm
Platform:	atm33	Informa	ation	
Chip Series:	ATM3330e-5		SDK Version	5.4.1
Flash Size:	0x80000		Platform Chip Series	atm33
Flash Type:	macronix		Board	ATMEVK_333
BD Address:	11:22:33:44:55:66			¥
		C	lear Log	Program
Programming	Device Debug			
Com Port:	COM14 _			¢ 💉 💉

Figure 3-1 SWD Interface in Main GUI



• SWDIF Combobox

List all the device IDs supported (including the device name, such as FTDI/RDI/JLINK) for which drivers must be installed first.

• Refresh

Click this button to refresh the device list.



3.2 SWD Interface Information

When the Tool is activated, it will read relevant Device information based on the detected devices. If multiple devices are connected at the same time, the Tool will wait until all information is acquired before allowing the user to proceed. Fields with unavailable information will be displayed as 'NA'.

Atm Flash programm	ning Tool - V1.x.x.x		$ \Box$ \times
File Settings			
Flash Progr	amming Tool	At	mosic
SWDIF JLINK	(8725)		Refresh
└ Information -		ATM File	
SWDIF SN:	000900028725	Enable Secure De Path HID_remote	bug Auth Setting _arch.atm
Platform:	atm33	Information	
Chip Series:	ATM3330e-5	SDK Version	5.4.1
	000000	Platform	atm33
Flash Size:	0X80000	Chip Series	ATM33xx-5
Flash Type:	macronix	Board	ATMEVK_333
BD Address:	11:22:33:44:55:66		×
		Clear Log	Program
Programming	Device Debug		
Com Port:	COM14 _		¢ 💉 💉

Figure 3-2 SWDIF Information in Main GUI

Atmosic

• SWDIF SN

The full device ID of the device.

• Platform

The platform information for the device

• Chip Series

The chip series information for the device.

• Flash Size

The flash size for the device (This message will be displayed if the device has previously written flash data).

• Flash Type

The flash type for the device (This message will be displayed if the device has previously written flash data).

 BD Address (This value is only available when the EVK is flashed with Bare Metal firmware)

The BD address for the device.

Note: The BD address will be read based on the following rules:

- There is chip series information, but the ATM file has not been selected yet. ⇒ Use the default NVDS address to get information
- There is chip series information, and the ATM file has been selected as well. ⇒ Use the NVDS address from within the ATM file to get information
- There is no chip series information, and the ATM file has not been selected. ⇒ Once the ATM file is selected, the information will be retrieved using the NVDS address from within the ATM file.
- If the BD address cannot be read, the default value will be 'NA'.

3.3 ATM File

The Tool currently only supports flashing Firmware in *.atm format. After the user selects the desired *.atm file for flashing, the Tool will list the included Partition information in the Information text area below.

Atm Flash programm	ing Tool - V1.x.x.x		- 🗆 ×
File Settings			
Flash Progra	amming Tool	A	tmosic
SWDIF JLINK (8725) 🗾		Refresh
┌ Information —		ATM File	
SWDIF SN:	000900028725	Enable Secure D Path HID_remote	ebug Auth Setting e_arch.atm
Platform:	atm33	Information	
Chip Series:	ATM3330e-5	SDK Version	5.4.1
	000000	Platform	atm33
Flash Size:	0x80000	Chip Series	ATM33xx-5
Flash Type:	macronix	Board	ATMEVK_333
BD Address:	11:22:33:44:55:66		~
		Clear Log	Program
Programming	Device Debug		
Com Port:	COM14 💌		¢ 🖋 💉

Figure 3-3 ATM File in Main GUI



• Enable Secure Debug

When selected, the Authentication unlock process will be performed before flashing the EVK. Relevant parameter settings can be configured in the 'Auth Setting' feature (currently only available for ATM33/e and ATM34/e series EVKs).

• Auth Setting

Used to configure the Secure Debug Key location path and authentication port.

• ATM Path

Users can select an ATM file here.

• ATM Information

After the user selects the atm file, the relevant information of the atm file will be displayed here.

- The BD Address will be pre-selected as unchecked when the device already has a BD Address. However, if the device does not have a BD Address previously, it will require the user to program it forcibly.
- The BD Address format is xx:xx:xx:xx:xx. If the format is incorrect, writing will not be possible.
- The ATM file compiled by the Zephyr SDK does not support the function to modify the BD Address.

3.4 Clear Log

Simultaneously clear log data for both Programming and Device Debug.

Atm Flash programm	ning Tool - V1.x.x.x		- 🗆 X
File Settings	amming Tool	At	:mosic
SWDIF JLINK	(8725)		Refresh
_ Information _		ATM File]
SWDIF SN:	000900028725	Path HID_remote	bug Auth Setting _arch.atm
Platform:	atm33	Information	
Chip Series:	ATM3330e-5	SDK Version	5.4.1
Flash Size:	0x80000	Platform	atm33
Flash Type:	macronix	Chip Series	ATM33xx-5
	11.00.00.14.55.00	Board	ATMEVK_333 ~
BD Address:	11:22:33:44:55:66	Clear Log	Program
Programming	Device Debug		
Com Port:	COM14		¢ 💉 💉

Figure 3-4 Clear Log in Main GUI

3.5 Program

Write the ATM file (*.atm) to flash. By checking/unchecking the checkboxes in the information text area, you can modify the partitions to be programmed into the flash memory.

Atm Flash programmi	ng Tool - V1.x.x.x	- 🗆 ×
File Settings		
Flash Progra	amming Tool	Atmosic [®]
SWDIF JLINK (8	3725) 💌	Refresh
┌ Information —		ATM File
SWDIF SN:	000900028725	Enable Secure Debug Auth Setting Path HID_remote_arch.atm
Platform:	atm33	Information
Chip Series:	ATM3330e-5	Board ATMEVK_333 ^
Flash Size:	0x80000	BD Address
Flash Type:	macronix	File_2
BD Address:	11:22:33:44:55:66	
		Clear Log Program
Programming	Device Debug	
Com Port:	COM14 •	¢ 💉 💉

Figure 3-5 Program in Main GUI



3.6 Log Information

The Tool provides two types of log content for users to analyze. Users can switch tabs to view different log content

3.6.1 Programming Log

Displaying the Tool log and the execution results obtained after running commands.

Atte Flash programm File Settings	ing Tool - V1.x.x.x	- 🗆 ×
Flash Progr	amming Tool	Atmosic [®]
SWDIF JLINK (8725) 👤	Refresh
┌ Information -		ATM File
SWDIF SN:	000900028725	Enable Secure Debug Auth Setting Path HID_remote_arch.atm
Platform:	atm33	Information
Chip Series:	ATM3330e-5	Board ATMEVK_333 ^
Flash Size:	0×80000	BD Address File_1
Flash Type:	macronix	File_2 APP
BD Address:	11:22:33:44:55:66	
		Clear Log Program
Programming	Device Debug	
exec ["D:/Project/tools/atmosic/flash_tool/flash//scripts/devcon_64.exe" find =ports "US exec ["D:/Project/tools/atmosic/flash_tool/flash//scripts/devcon_64.exe" find "USB\VID_0 exec ["D:/Project/tools/atmosic/flash_tool/flash//scripts/devcon_64.exe" find "USB\VID_0 exec ["D:/Project/tools/atmosic/flash_tool/flash//scripts/devcon_64.exe" find "USB\VID_0 *****Detect JLINK device: 8725 **** SEGGER J-Link Commander V7.88j (Compiled Jun 28 2023 13:40:51) DLL version V7.88j, compiled Jun 28 2023 13:39:15		

Figure 3-6 Programming Log in Main GUI



3.6.2 Device Debug Log

Boot-up logs are shown after connecting to EVK via UART COM Port.

Atte Flash programm	ning Tool - V1.x.x.x		- 🗆 ×
Flash Progr	amming Tool	At	mosic
SWDIF JLINK	(8725) 🗾		Refresh
Information -		ATM File	
SWDIF SN:	000900028725	Path HID_remote_	arch.atm
Platform:	atm33	Information	
Chip Series:	ATM3330e-5	Board	ATMEVK_333 ^
Floch Sizer	0~20000	BD Address	
Flash Size.	0x00000	✓ File_1	NVDS
Flash Type:	macronix	File_2	APP
BD Address:	11:22:33:44:55:66		
		Clear Log	Program
Programming	Device Debug		
Com Port:	COM14 _		¢ 💉 💉
<pre>@000293e2 lock slots of (hibernation, retention, sleep): 0, 0, 0 @000294cb [rc_mmi][[92mD[0m]: [94mMMI_S_INITING[0m (MMI_OP_INITING) @000295ac lock slots of (hibernation, retention, sleep): 0x2, 0, 0 @0002967e Entering main loop @0002978d ble_hid :[32mBLE_HOGPD_IDLE[0m</pre>			

Figure 3-7 Device Debug Log in Main GUI

• Com Port

The UART COM port to connect to.

• Connect 🜌

Connect to the specified UART COM port.

• Disconnect 🜌

Disconnect the UART COM port.

• Refresh 🗢

Update the UART COM port list.

3.7 Export Log

Store Programming Log and Device Debug Log in the specified paths respectively.

Atm Flash programm	ing Tool - V1.x.x.x	- 🗆 X
File Settings		
Export Log		A 1 1 1 1 1 1 1 1 1 1
Flash Progra	amming tool	Atmosic
SWDIF JLINK (8725) 🔽	Refresh
Information -		ATM File
		Enable Secure Debug Auth Setting
SWDIF SN:	000900028725	Path HID_remote_arch.atm
Platform:	atm33	Information
Chin Series	ATM3330e-5	Board ATMEVK_333 ^
emp series.		BD Address
Flash Size:	0×80000	File_1 NVDS
Flash Type:	macronix	File_2 APP
BD Address:	11:22:33:44:55:66	
		Clear Log Program
Programming	Device Debug	
Com Port:	COM14 🔽	¢ 🖋 🜌
@0002a45a loc @0002a557 [bat @0020a11f lock @0020a1f1 [rc_1 @0020a2ce loc	k slots of (hibernation, reter tt_coin][[97mV[0m]: result 29 slots of (hibernation, reten mmi][[92mD[0m]: [94mMMI_ k slots of (hibernation, reter	tion, sleep): 0xb, 0, 0 37mV, Capacity 75% ion, sleep): 0x8, 0, 0 S_IDLE[0m (MMI_OP_PAIR_TOUT) tion, sleep): 0, 0, 0
<		>

Figure 3-8 Export Log in Main GUI

3.8 Setup Environment

Elash programming Tool - V1.x.x.x	- 🗆 X
File Settings	
Setup Environment Flash Programming Tool	Atmosic [®]
SWDIF JLINK (8725)	Refresh
Information	ATM File
SWDIF SN: 000900028725	Enable Secure Debug Auth Setting Path HID_remote_arch.atm
Platform: atm33	Information
Chip Series: ATM3330e-5	Board ATMEVK_333 ^
Flash Size: 0x80000	□ BD Address □ File_1
Flash Type: macronix	File_2 APP
BD Address: 11:22:33:44:55:66	
	Clear Log Program
Programming Device Debug	
Com Port: COM14 -	¢ 💉 💉
@0002a45a lock slots of (hibernation, retention @0002a557 [batt_coin][[97mV[0m]: result 2937 @0020a11f lock slots of (hibernation, retention @0020a1f1 [rc_mmi][[92mD[0m]: [94mMMI_S_ @0020a2ce lock slots of (hibernation, retention <	on, sleep): 0xb, 0, 0 /mV, Capacity 75% n, sleep): 0x8, 0, 0 IDLE[0m (MMI_OP_PAIR_TOUT) on, sleep): 0, 0, 0

Figure 3-9 Setup Environment in Main GUI

To add a J-Link device and flash loader automatically or manually add them by the following steps:

• J-Link Version V7.88m (2023-07-19):

For Windows:

a) Create Atmosic folder under C:\Users\<USER>\AppData\Roaming\SEGGER\JLinkDevices



- b) Create ATMx2 and ATMx3 folder under C:\Users\<USER>\AppData\Roaming\SEGGER\JLinkDevices\Atmosic
- c) Copy ATMx2.xml and ATMx2.FLM from <flash tool path>\jlink\flash_loader into the above new created ATMx2 folder
- d) Copy the following files from <flash tool path>\jlink\flash_loader into the above newly created ATM33 folder
 - ATM33.xml
 - ATM33_RRAM.FLM
 - ATM3330_EXTFLASH.FLM
 - ATM3325_EXTFLASH.FLM
 - ATM3325_STACKFLASH.FLM
- e) Copy the following files from <flash tool path>\jlink\flash_loader into the above newly created ATM34 folder
 - ATM34.xml
 - ATM34_RRAM.FLM
 - ATM3405_EXTFLASH.FLM
 - ATM3425_EXTFLASH.FLM
 - ATM3430_EXTFLASH.FLM

Note: <USER> means the account name you use when logging into the computer.

4. How to Switch the Flash Programming Mode in ATM Information

Due to the possibility that users may need to exclude the action of programming Flash NVDS(In Zephyr SDK, it is called FACTORY_DATA), the Tool provides three programming modes for switching (users can switch between the three modes by clicking the checkbox before NVDS or FACTORY_DATA item).

1) Program all image files in atm

Inform	nation		
	File_1	NVDS	1^
	File_2	APP	
	File_3	ATMWSTK	
	File_4	MCUBOOT	~

Figure 4-1 Program All Image Files in atm

2) Program all image files except for NVDS or FACTORY_DATA

Inform	nation		
	File_1	NVDS	^
	File_2	APP	
\checkmark	File_3	ATMWSTK	
\checkmark	File_4	MCUBOOT	*

Figure 4-2

Program All Image Files Except for NVDS or FACTORY_DATA

3) **Program NVDS or FACTORY_DATA file only**

Infor	mation		
	File_1	NVDS	^
	File_2	APP	
	File_3	ATMWSTK	
	File_4	MCUBOOT	~

Figure 4-3

Program NVDS or FACTORY_DATA File Only

5. Write the ATM File to EVK

Step 1 - Select the SWDIF option.

Flash programm	ing Tool - V1.x.x.x	- 🗆 X
Flash Progr	amming Tool	Atmosic [®]
SWDIF JLINK	(8725)	Refresh
Information -		ATM File
SWDIF SN:	000900028725	Enable Secure Debug Auth Setting Path
Platform:	atm33	Information
Chip Series:	ATM3330e-5	
Flash Size:	0×80000	
Flash Type:	macronix	
BD Address:	11:22:33:44:55:66	
		Clear Log Program
Programming	Device Debug	
Com Port:	COM14 •	¢ 💉 💉

Figure 5-1 Select SWDIF Option

Atm Flash programm	ning Tool - V1.x.x.x	- 🗆 X
File Settings		
Flash Progra	amming Tool	Atmosic [™]
SWDIF JLINK ((8725)	Refresh
┌ Information —		ATM File
SWDIF SN:	000900028725	Enable Secure Debug Auth Setting Path
Platform:	atm33	Information
Chip Series:	ATM3330e-5	
Flash Size:	0×80000	
Flash Type:	macronix	
BD Address:	11:22:33:44:55:66	
		Clear Log Program
Programming	Device Debug	
Com Port:	COM14 •	¢ 💉 💉

Step 2 - Click the ... button to select the ATM image file.

Figure 5-2 Select ATM Image File

Step 3 - If you want to modify the content of the partition to be flashed, you can change the checkbox of the NVDS (In Zephyr SDK, it is called FACTORY_DATA) item.

ile Settings	ng tool - v t.x.x.x	~
Flash Progra	mming Tool	Atmosic
SWDIF JLINK (8	(725)	Refresh
Information —		ATM File
	00000028725	Enable Secure Debug Auth Setting
SWDIF SN:	000900028725	Path HID_remote_arch.atm
Platform:	atm33	Information
Chip Series:	ATM3330e-5	File_1 NVDS
Flash Size:	0×80000	File_2 APP
Flash Type:	macronix	File_3 ATMWSTK
BD Address:	11:22:33:44:55:66	File_4 MCUBOOT
		Clear Log Program
Programming	Device Debug	
Com Port:	COM14 _	¢ 💉 💉

Figure 5-3 Change the Checkbox of the NVDS Item if Needed



Step 4 - Click the Program button to write image files to EVK. A pop-up screen will indicate successful recording when the write operation is successful.

File Settings	ning Tool - V1.x.x.x				- 🗆 ×
Flash Progr	amming Too	I		At	mosic
SWDIF JLINK	(8725)	-			Refresh
Information -				ile	
SWDIF SN:	0009000287	725	☐ Enab Path	HID_remote_a	arch.atm
Platform:	atm33	Informat	tion X	ion	
Chip Series:	ATM3330e-	Progran	n success!!	DK Version	5.4.1
Flash Size:	0×80000		ок	latform	atm33 ATM33xx-5
Flash Type:	macronix		1	Board	ATMEVK_333
BD Address:	11:22:33:44	:55:66			×
			CI	ear Log	Program
Programming	Device Debug				
Com Port:	COM14 💌				¢ 💉 💉

Figure 5-4 Write Flash Data Success Dialog

Write the ATM File to EVK with Secure Debug Enabled

Step 1 - Select the SWDIF option.

Atm Flash programm	ing Tool - V1.x.x.x	- 🗆 ×
Flash Progra	amming Tool	Atmosic [™]
SWDIF JLINK (8725) 🗾	Refresh
Information -		ATM File
SWDIF SN:	000900028725	Enable Secure Debug Auth Setting Path
Platform:	atm33	Information
Chip Series:	ATM3330e-5	
Flash Size:	0×80000	
Flash Type:	macronix	
BD Address:	11:22:33:44:55:66	
		Clear Log Program
Programming	Device Debug	
Com Port:	COM14 _	¢ 💉 🜌

Figure 6-1 Select SWDIF Option

Step 2 - Click the		button to	select the	ATM	image	file.
--------------------	--	-----------	------------	-----	-------	-------

Atm Flash programm	ning Tool - V1.x.x.x	- 🗆 X
File Settings		
Flash Progr	amming Tool	Atmosic [™]
SWDIF JLINK	(8725)	Refresh
┌ Information –		ATM File
SWDIF SN:	000900028725	Enable Secure Debug Auth Setting Path
Platform:	atm33	Information
Chip Series:	ATM3330e-5	
Flash Size:	0×80000	
Flash Type:	macronix	
BD Address:	11:22:33:44:55:66	
		Clear Log Program
Programming	Device Debug	
Com Port:	COM14 _	¢ 💉 🜌

Figure 6-2 Select ATM Image File



Step 3 - Clicking the Auth Setting button, a window will pop up for the user to select the Secure Debug Key and Auth Port.

File Settings	ing Tool - V1.x.x.x		– 🗆 X
Flash Progra	amming Tool	At	tmosic
SWDIF JLINK (8725)		Refresh
_ Information _		ATM File]
SWDIF SN:	000900028725	Path HID_remote	ebug Auth Setting
Platform:	atm33	Information	
Chip Series:	ATM3330e-5	SDK Version	5.4.1
Flash Sizo	0~80000	Platform	atm33
		Chip Series	ATM33xx-5
Flash Type:	macronix	Board	ATMEVK_333
BD Address:	11:22:33:44:55:66		
		Clear Log	Program
Programming	Device Debug		
Com Port:	COM14		¢ 💉 🜌

Figure 6-3 Click the Auth Setting Button to Show the Authentication Setting Dialog



Atm Authentication Key Setting				×
Secure Key File Path (EVK)				
Auth COM Port	COM15		~	¢
		Sa	ave Sett	ting

Figure 6-4 Authentication Setting Dialog

Step 4 - Click the ... button to select the secure debug key file (If the key used for burning the firmware is different from the one on the EVK, you need to select the corresponding key file separately). Additionally, select the COM Port for the Authentication. After changes are completed, Click the Save Setting button to save the settings and close the window.

Atm Authentication Key Setting		_		\times
Secure Key File Path (EVK) Secure Key File Path (ATM)				
Auth COM Port	COM15		~	¢
			Save Sett	ing





Step 5 - Set the Enable Secure Debug checkbox.

	725)		Refresh
			Iterican
SWDIF SN:	000900028725	Path HID_remote	ebug Auth Setting
Platform:	atm33	Information	
Chip Series:	ATM3330e-5	SDK Version	5.4.1
Floch Sizer	0~80000	Platform	atm33
Flash Size.	000000	Chip Series	ATM33xx-5
Flash Type:	macronix	Board	ATMEVK_333
BD Address:	11:22:33:44:55:66		
		Clear Log	Program
Programming	Device Debug		
Com Port:	COM14 💌		¢ 🖋 💉

Figure 6-6 Set Enable Secure Debug Checkbox

Step 6 - If you want to modify the content of the partition to be flashed, you can change the checkbox of the NVDS (In Zephyr SDK, it is called FACTORY_DATA) item.

lash Progra	mming Tool	Atmosic
SWDIF JLINK (8	725) 💌	Refresh
Information —		ATM File
CIMPLE CN.	00000000705	Enable Secure Debug Auth Setting
SWUIF SN:	000900028725	Path HID_remote_arch.atm
Platform:	atm33	Information
Chip Series:	ATM3330e-5	File_1 NVDS
Flash Size:	0x80000	File_2 APP
Flash Type:	macronix	File_3 ATMWSTK
BD Address:	11:22:33:44:55:66	File_4 MCUBOOT
		Clear Log Program
Programming	Device Debug	
Com Port:	COM14	¢ 💉 💒

Figure 6-7 Change the Checkbox of the NVDS or FACTORY_DATA Item if Needed

Step 7 - Click the Program button, and the Tool will pop up After pressing the OK button, please reset the device within three seconds (This step is only required when using J-Link for flashing).

File Settings	COX		- 🗆 X
Flash Programming	ΤοοΙ		Atmosic
SWDIF JLINK (8725)	<u>_</u>		Refresh
Information		ATM File —]
	0000705	Enable Secure Debug Auth Setting	
SWDIF SN: 00090	10028725	Path HID_r	emote_arch.atm
Platform:	ao 'OK' button plaa		×
Chip Seri	le ok buton,piea	se reset the device wi	OK
Flash Type: macro	onix	File_3	ATMWSTK MCUBOOT
BD Address: 11:22	:33:44:55:66		
		Clear Log	Program
Programming Device Del	bug		
Com Port: COM14	•		¢ 💉 🜌

Figure 6-8 Pop-up Reset The Device Within Three Seconds Dialog

Step 8 - A Pop-up countdown screen will appear and wait for the user to reset the device (This step is only required when using J-Link for flashing).

file Settings	ing Tool - V1.x.x.x		- 🗆 ×
Flash Progra	amming Tool	At	mosic⁼
SWDIF JLINK (8725)		Refresh
Information -		ATM File	
SWDIF SN:	000900028725	ount down ? ×	ug Auth Setting
Platform:	atm33		
Chip Series:	ATM3330e-5	1	NVDS
Flash Size:	0×80000		APP
Flash Type:	macronix	File_3	ATMWSTK
BD Address:	11:22:33:44:55:66	File_4	WC0BOO1
		Clear Log	Program
Programming	Device Debug		
Com Port:	COM14 _		¢ 💉 💉

Figure 6-9 Pop-up Countdown Dialog

Step 9 - A pop-up screen will indicate successful recording when the write operation is successful.

Aster Flash programm File Settings	ning Tool - V1.x.x.x				- 🗆 ×
Flash Progr	amming Too	I		At	mosic⁼
SWDIF JLINK	(8725)	-			Refresh
Information -				ile	
SWDIF SN:	0009000287	725	☐ Enab Path	HID_remote_a	arch.atm
Platform:	atm33	Informat	tion X	ion	
Chip Series:	ATM3330e-	Progran	n success!!	DK Version	5.4.1
Flash Size:	0x80000		ОК	latform	atm33 ATM33xx-5
Flash Type:	macronix		1	Board	ATMEVK_333
BD Address:	11:22:33:44	:55:66			×
			CI	ear Log	Program
Programming	Device Debug				
Com Port:	COM14 💌				¢ 💉 💉

Figure 6-10 Write Flash Data Success Dialog

7. Troubleshooting

If there is a popup error message during execution, the user can troubleshoot the problem by referring to the error messages in <u>Table 7-1</u>.

Index	Error message	Troubleshoot
1	Setting.xml not found	The setting.xml in the executable file root directory doesn't exist.
2	SdkValues.xml not found	The SdkValues.xml in the executable file root directory doesn't exist.
3	ATM file can't be empty	The ATM file path cannot be empty.
4	If the BD address does not exist, burning cannot be canceled.	If there is no BD Address inside the EVK, then the user is required to program a BD Address.
5	BD address format error, please check again	The BD Address format is xx:xx:xx:xx:xx:xx. If the format is incorrect, writing will not be possible.
6	Chip information does not match. Should we proceed with the burning process?	The EVK and the chip version information of the ATM file to be flashed must be consistent.
7	Authentication information can't be empty	If the 'Enable secure debug' checkbox is selected, the Authentication information cannot be empty.
8	Failed to generate J-Link file	Unable to generate the J-Link script file required for J-Link scripting.
9	Failed to dump NVDS file	Dump NVDS file EVK fails. (Bare Metal SDK only)
10	At least one file needs to be selected for programming	At least one checkbox for the ATM file must be selected.
11	ATM file does not include a partition map file, please use another atm file	The 'Partition_info.map' does not exist in the ATM file. Please use a different ATM file for flashing.
12	Unable to find corresponding J-Link Device settings	Board information is not found in the ATM file.
13	Failed to copy the J-Link script	Failed to copy J-Link script file in jlink/ide_prj_gen directory.
14	Please install the J-Link to your	Not installed J-Link driver.



Index	Error message	Troubleshoot
	system	
15	J-Link version can't be lower than v7.80	Please upgrade Jlink to version 7.80 or higher.
16	The selected Auth COM port cannot establish a connection	The COM port used for authentication does not exist.
17	Unknown Chip platform	Corresponding Chip Platform not found.
18	J-Link path <j-link segger<br="">Path> does not exist, please install J-Link to your system</j-link>	J-Link Segger installation directory not found. Please download and install it from the J-Link website.
20	The checksum of the current key file is inconsistent with that of the ATM	The key's checksum doesn't match the information in the ATM file
21	There is no checksum information in the ATM file	The ATM file doesn't contain checksum information for verification
22	The ATM file does not support secure debug	The ATM file doesn't support secure debug.
23	Key checksum information is not present in the ATM file	The ATM file doesn't support secure debug.
Table 7-1	Error Message Descriptior	

Reference Documents

ΤοοΙ	Description	Link
J-Link	Software and Documentation pack	https://www.segger.com/downloads/jlink



Revision History

Date	Version	Description
January 17, 2025	0.51	Updated with Flash Programming Tool Release 1.0.0.30
August 31, 2023	0.50	Initial version created.

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