



Rd-03 Firmware flashing tutorial

Version V1.0.0

Copyright ©2023

Document resume

Version	Date	Formulate/Revise Content	Formulate	Approved
V1.0.0	2023/6/1	First edition	Fangke Huang	Hong Xu

Content

1. Firmware flashing	4
2. Contact us	8
Disclaimer and copyright notice	9
Notice	9

1. Firmware flashing

In this example, the DAP LINK programmer is used to burn the firmware. The burning interface is the SWD interface, and the wiring needs to be connected before burning.

1.1 Install the keil5 software, the installation tutorial can refer to this blog post link:

https://blog.csdn.net/Matcha_ice_cream/article/details/118684582

1.2 Double-click to install Puya.PY32F0xx_DFP.1.1.0.pack.

1.3 Open the keil5 software, select Project->New uVisionProject, create a new project, the project name is consistent with the hex file, select

Puya->PY32F0Series->PY32F003->PY32F003x6 in the pop-up Device interface, click "OK" to confirm, in the pop-up Click Cancel on the Manage Run-Time Environment window.

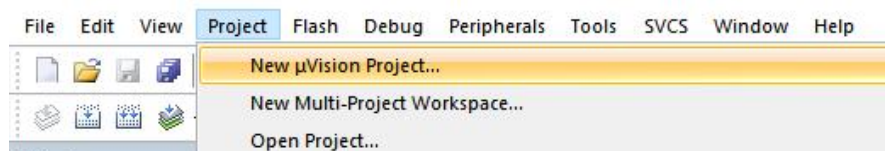


Figure 1. Hex file burning step 1--new project

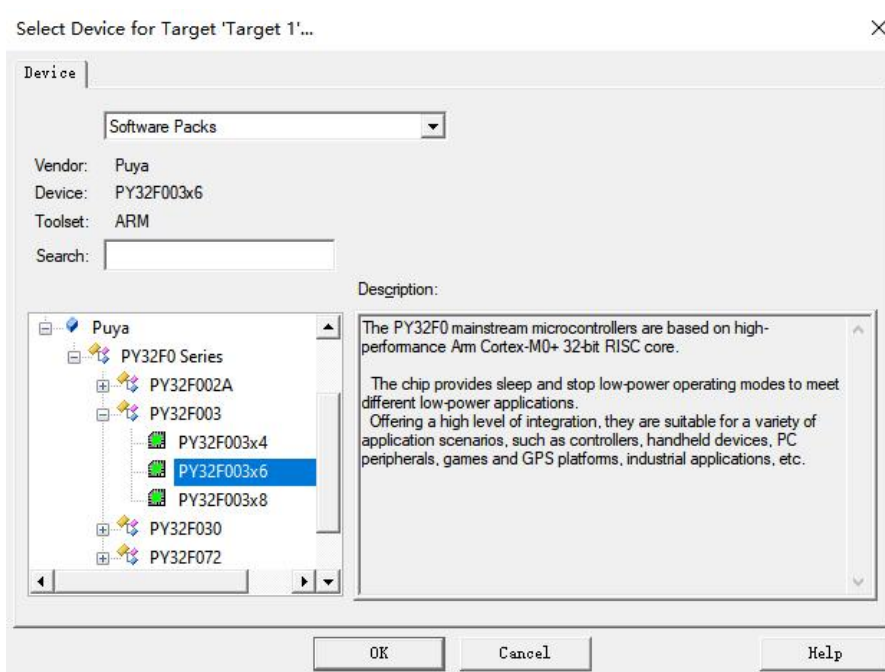


Figure 2. Hex file burning step 2--select chip

Click Options for Target, select Output in the pop-up interface, click Select Folder for Objects, and select the hex file to be burned; in Name of Executable, click the hex file name (including the suffix name) and click OK.

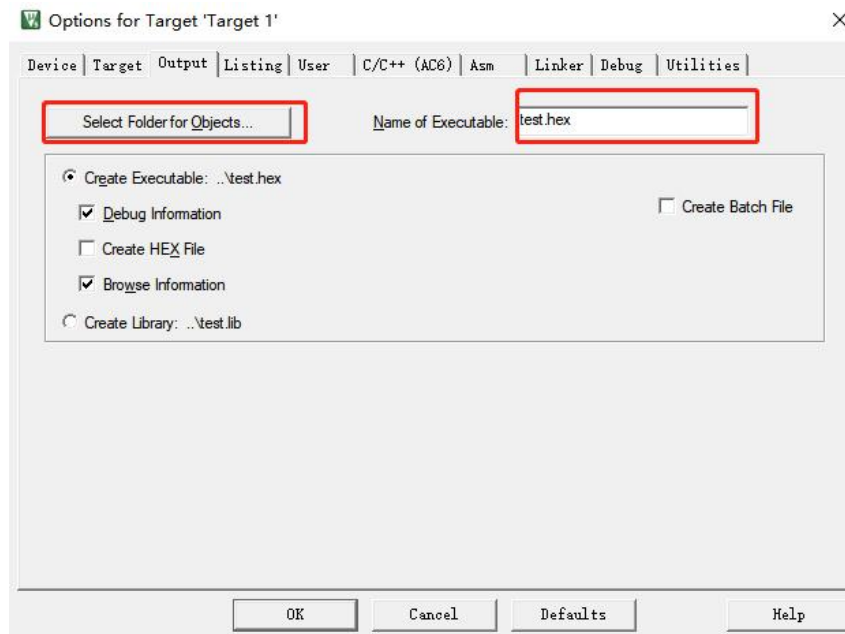
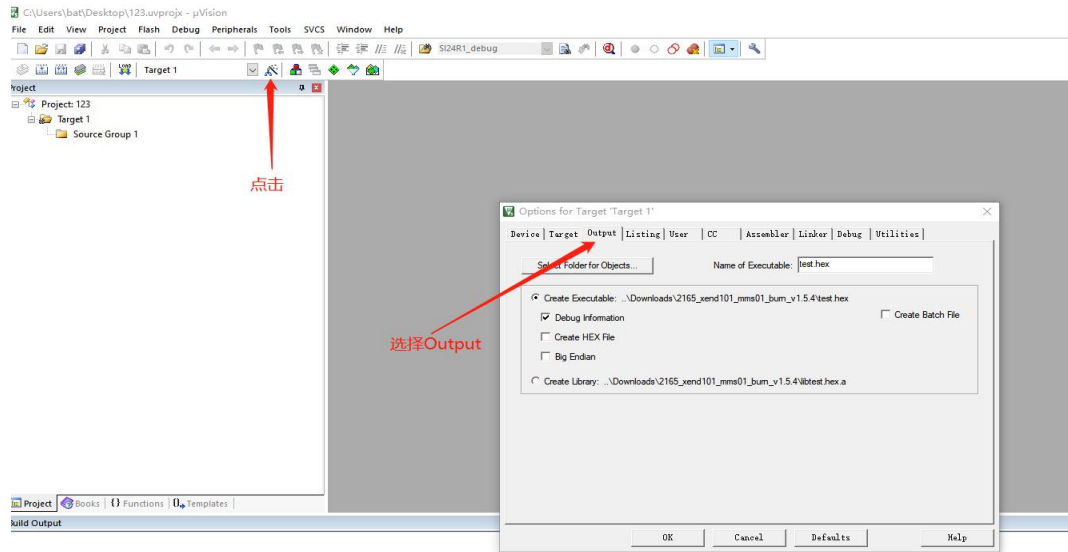


Figure 3. Hex file burning step 3--select file

Click Project, select Options for Target, select Debug in the pop-up interface, select the downloader (here DAP LINK is taken as an example), click setting, configure the downloader in Debug, select SW for port, and select Erase Full Chip in Flash Download, Click OK.

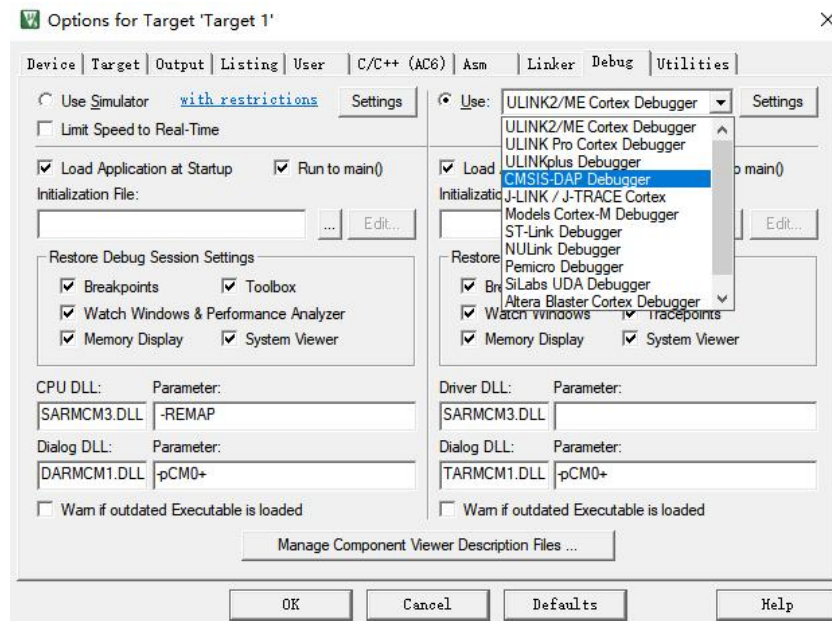


Figure 4. Hex file burning step 4--select the burner

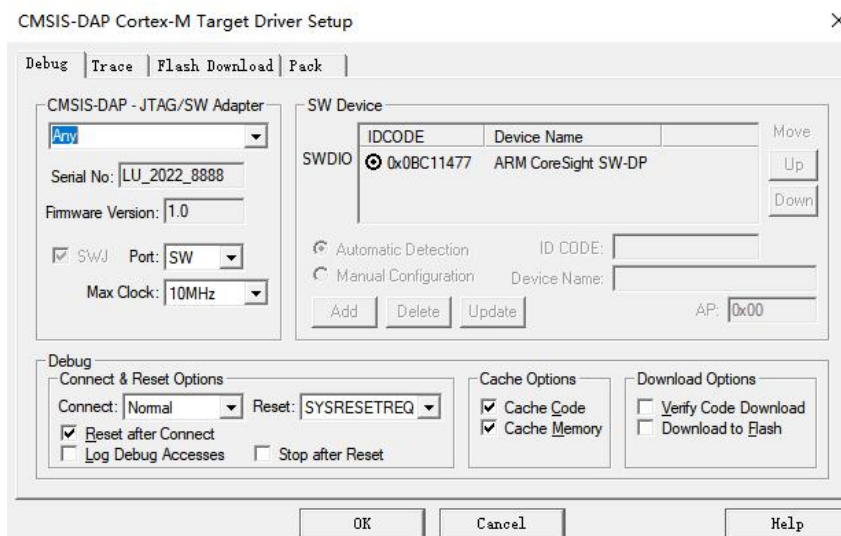


Figure 5. Hex file burning step 5--configure the burner

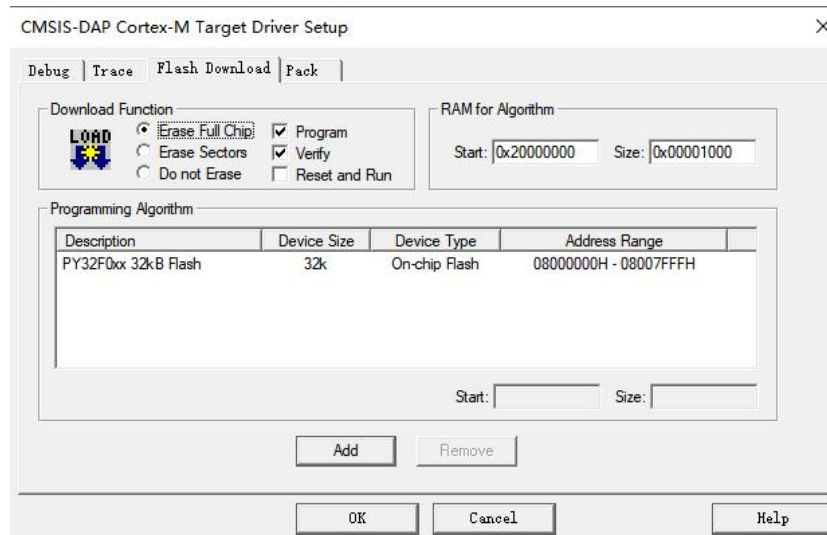


Figure 6. Hex file burning step 6--choose to erase flash

Connect the Rd-03 radar module to the computer through the DAP-LINK programmer, click Flash, and select Download to burn the hex file into the Rd-03 radar module.

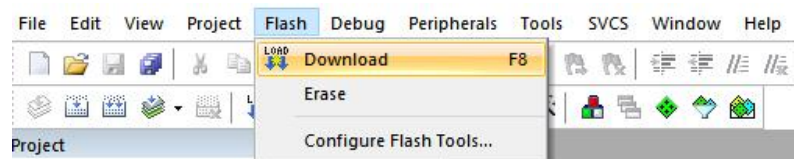


Figure 7. Hex file burning step 7--Download

```
Build Output
Load "..\\test.hex"
Full Chip Erase Done.
Programming Done.
Verify OK.
Flash Load finished at 09:34:45
```

Figure 8. Hex file burning step 8--burning is successful

2. Contact us

[Ai-Thinker official website](#)

[Office forum](#)

[Develop DOCS](#)

[LinkedIn](#)

[Tmall shop](#)

[Taobao shop](#)

[Alibaba shop](#)

[Technical support email: support@aithinker.com](#)

[Domestic business cooperation: sales@aithinker.com](#)

[Overseas business cooperation: overseas@aithinker.com](#)

Company Address: Room 403,408-410, Block C, Huafeng Smart Innovation Port, Gushu 2nd Road, Xixiang, Baoan District, Shenzhen.

Tel: +86-0755-29162996



WeChat mini program



WeChat official account

Disclaimer and copyright notice

The information in this article,including the URL address for reference,is subject to change without notice.

The document is provided"as is"without any guarantee responsibility,including any guarantee for merchantability,suitability for a specific purpose,or non-infringement,and any guarantee mentioned elsewhere in any proposal,specification or sample.This document does not bear any responsibility,including the responsibility for infringement of any patent rights arising from the use of the information in this document.This document does not grant any license for the use of intellectual property rights in estoppel or other ways,whether express or implied.

The test data obtained in the article are all obtained from Ai-Thinker's laboratory tests,and the actual results may vary slightly.

All brand names,trademarks and registered trademarks mentioned in this article are the property of their respective owners,and it is hereby declared.

The final interpretation right belongs to Shenzhen Ai-Thinker Technology Co.,Ltd.

Notice

Due to product version upgrades or other reasons,the contents of this manual may be changed.

Shenzhen Ai-Thinker Technology Co.,Ltd.reserves the right to modify the contents of this manual without any notice or prompt.

This manual is only used as a guide.Shenzhen Ai-Thinker Technology Co.,Ltd. makes every effort to provide accurate information in this manual.However, Shenzhen Ai-Thinker Technology Co.,Ltd. does not guarantee that the contents of the manual are completely free of errors.All statements and information in this manual And the suggestion does not constitute any express or implied guarantee.

Important Statement

Ai-Thinker may provide technical and reliability data (including data sheets), design resources (including reference designs), application or other design advice, network tools, safety information and other resources ("these resources") "as is" and not Warranty against defects and without warranty of any kind, express or implied, including but not limited to express or implied warranties of fitness, fitness for a particular purpose, or non-infringement of any third party intellectual property rights. And specifically disclaims responsibility for any inevitable or incidental losses including but not limited to the application or the use of any products and circuits of our company.

Ai-Thinker reserve the right to change the information released in this document (including but not limited to indicators and product descriptions) and any of the company's products involved without prior notice. This document automatically replaces and replaces the previous version of the same document number provided by the document all the information for .

These resources are available to skilled developers designing with Ascension products. You will bear all the responsibilities for the following: (1) Select the appropriate Ascension product for your application; (2) Design, verify, and operate your application and product in the whole life cycle; (3) Ensure that your application meets all relevant requirements. standards, codes and laws, and any other functional safety, information security, regulatory or other requirements.

EMC authorizes you to use these resources only for the development of applications for the EMC products described in this resource. Without the permission of Ai-Thinker, no unit or individual may excerpt, copy part or all of these resources, and shall not spread them in any form. You have no right to use any other Intellectual Property or any third party Intellectual Property. You shall fully indemnify and disclaim all claims, damages, costs, losses and liabilities against Axis and its representatives arising from the use of these resources.

The products offered by Ai-Thinker are governed by Ai-Thinker's terms of sale or other applicable terms accompanying Ai-Thinker's products. Ai-Thinker may provide these resources without extending or otherwise altering the applicable warranties or warranty disclaimers for product releases.