



UM1507

User Manual

Programming PY32™ using CoFlash Software

Perface

This document describes the installation and use of the CoFlash software. This software allows downloading FLASH and OPTION for PY32 microcontrollers by installing plug-ins and working with PY-LINK or other DAP-LINK emulators. It supports Program, Erase, Verify, Blank Check, etc.

Table 1. Applicable products

Type	Products
Microcontroller series	PY32C610、PY32C611、PY32C640、PY32C641、PY32C670、PY32F001、PY32F002A、PY32F002B、PY32F003、PY32F030、PY32F031、PY32F040、PY32F071、PY32F072、PY32F303、PY32F403、PY32L020、PY32M010、PY32M030、PY32M070

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1 Software Installation

1.1 Download Software

Download links: [CooCox Development Tool for ARM Cortex M based Microcontrollers - Documents - Technical Library - element14 Community](#)

1.2 Installation Software

Double-click CoFlash-1.5.1.exe and follow the installation wizard prompts to complete the installation.

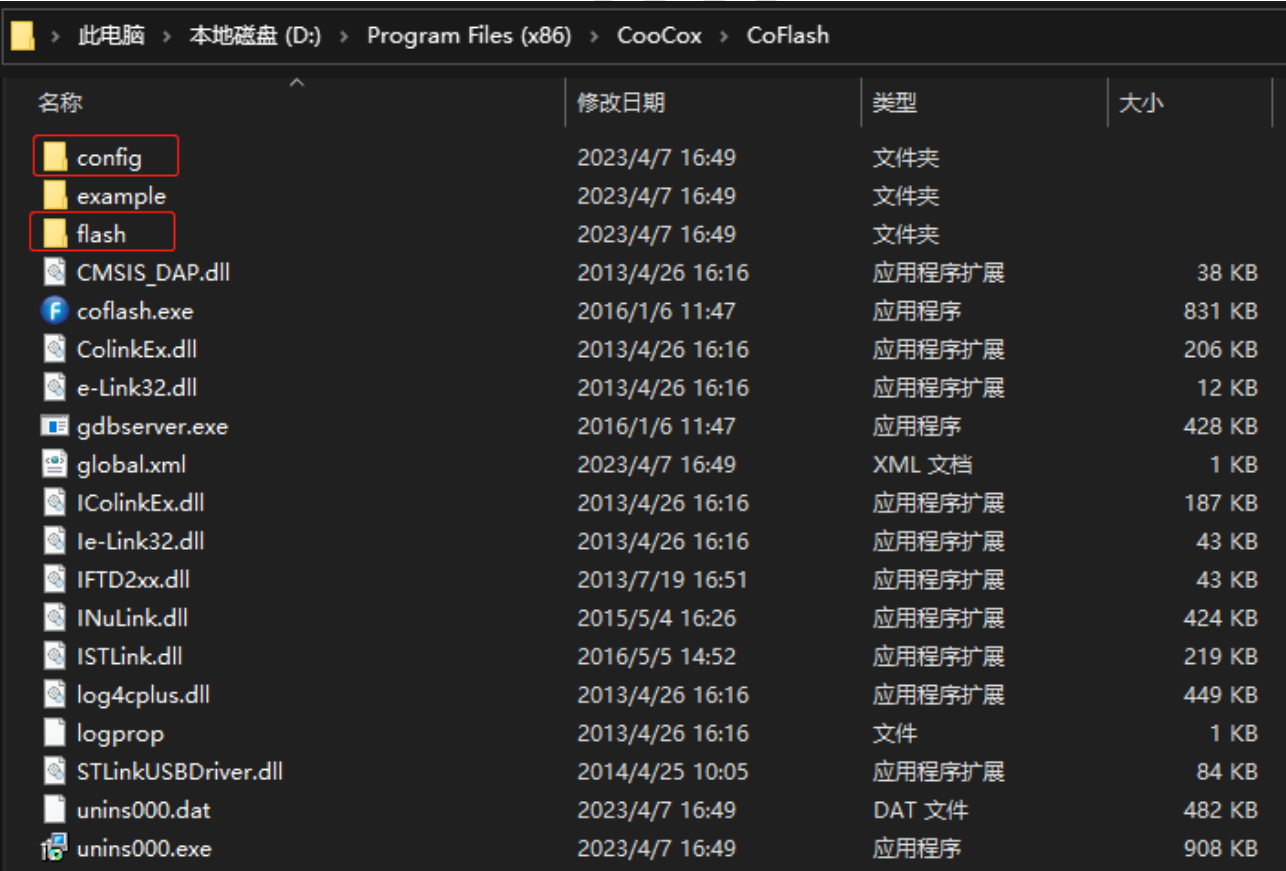
1.3 Installing Plugins

Figure 1.3-1.Unpacking PY32_CoFlash_Plugin.rar



名称	修改日期	类型
config	2023/4/4 9:59	文件夹
flash	2023/4/4 9:58	文件夹

Figure 1.3-2.Copy all files(folders) after unpacking to the CoFlash installation directory



名称	修改日期	类型	大小
config	2023/4/7 16:49	文件夹	
example	2023/4/7 16:49	文件夹	
flash	2023/4/7 16:49	文件夹	
CMSIS_DAP.dll	2013/4/26 16:16	应用程序扩展	38 KB
coflash.exe	2016/1/6 11:47	应用程序	831 KB
ColinkEx.dll	2013/4/26 16:16	应用程序扩展	206 KB
e-Link32.dll	2013/4/26 16:16	应用程序扩展	12 KB
gdbserver.exe	2016/1/6 11:47	应用程序	428 KB
global.xml	2023/4/7 16:49	XML 文档	1 KB
IColinkEx.dll	2013/4/26 16:16	应用程序扩展	187 KB
Ie-Link32.dll	2013/4/26 16:16	应用程序扩展	43 KB
IFTD2xx.dll	2013/7/19 16:51	应用程序扩展	43 KB
INuLink.dll	2015/5/4 16:26	应用程序扩展	424 KB
ISTLink.dll	2016/5/5 14:52	应用程序扩展	219 KB
log4cplus.dll	2013/4/26 16:16	应用程序扩展	449 KB
logprop	2013/4/26 16:16	文件	1 KB
STLinkUSBDriver.dll	2014/4/25 10:05	应用程序扩展	84 KB
unins000.dat	2023/4/7 16:49	DAT 文件	482 KB
unins000.exe	2023/4/7 16:49	应用程序	908 KB

2 Hardware Connection

Table 2-1. PY-LINK Connection Schematic

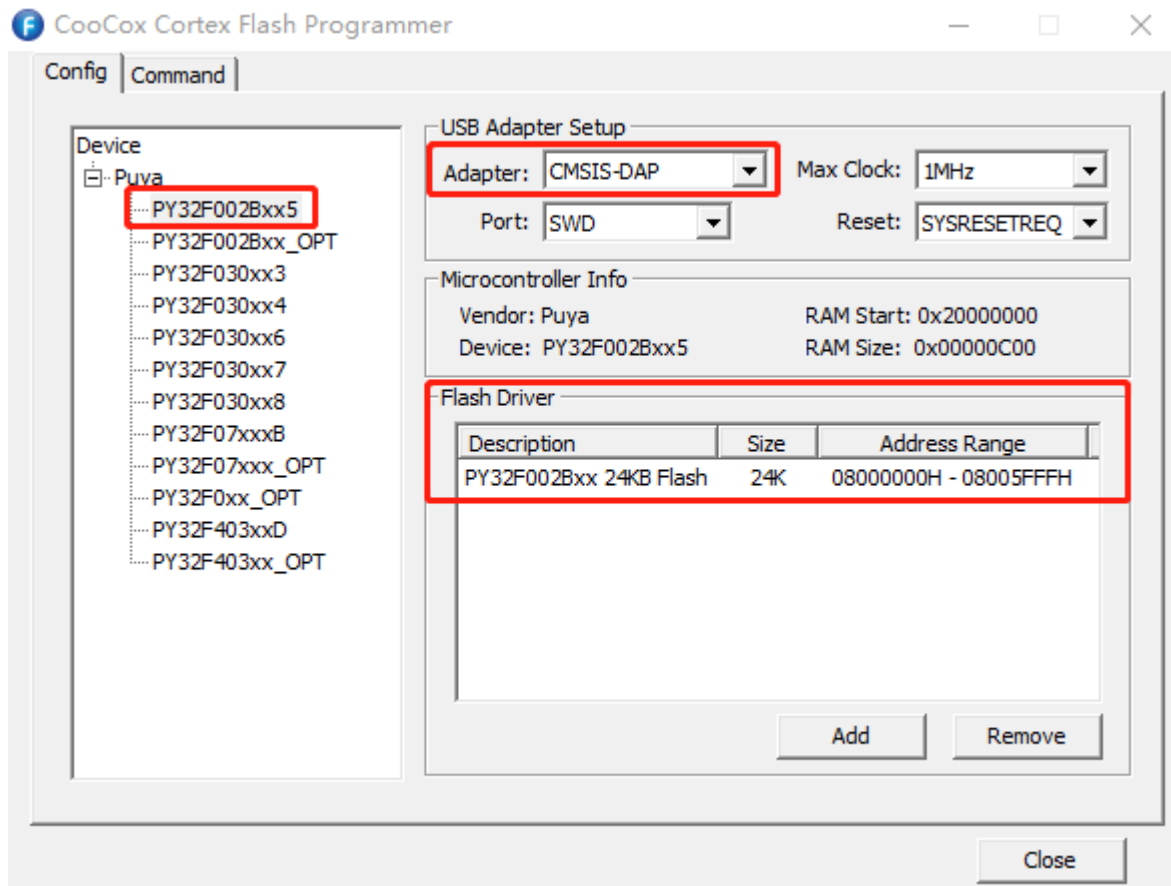
PY-LINK	MCU
VCC	VDD
TMS/SWDIO	PA13(SWDIO)
GND	VSS
TCK/SWCLK	PA14(SWCLK)

3 Software Use

3.1 Config UI

- Select Device
- Select Adapter
- Make sure Flash Driver

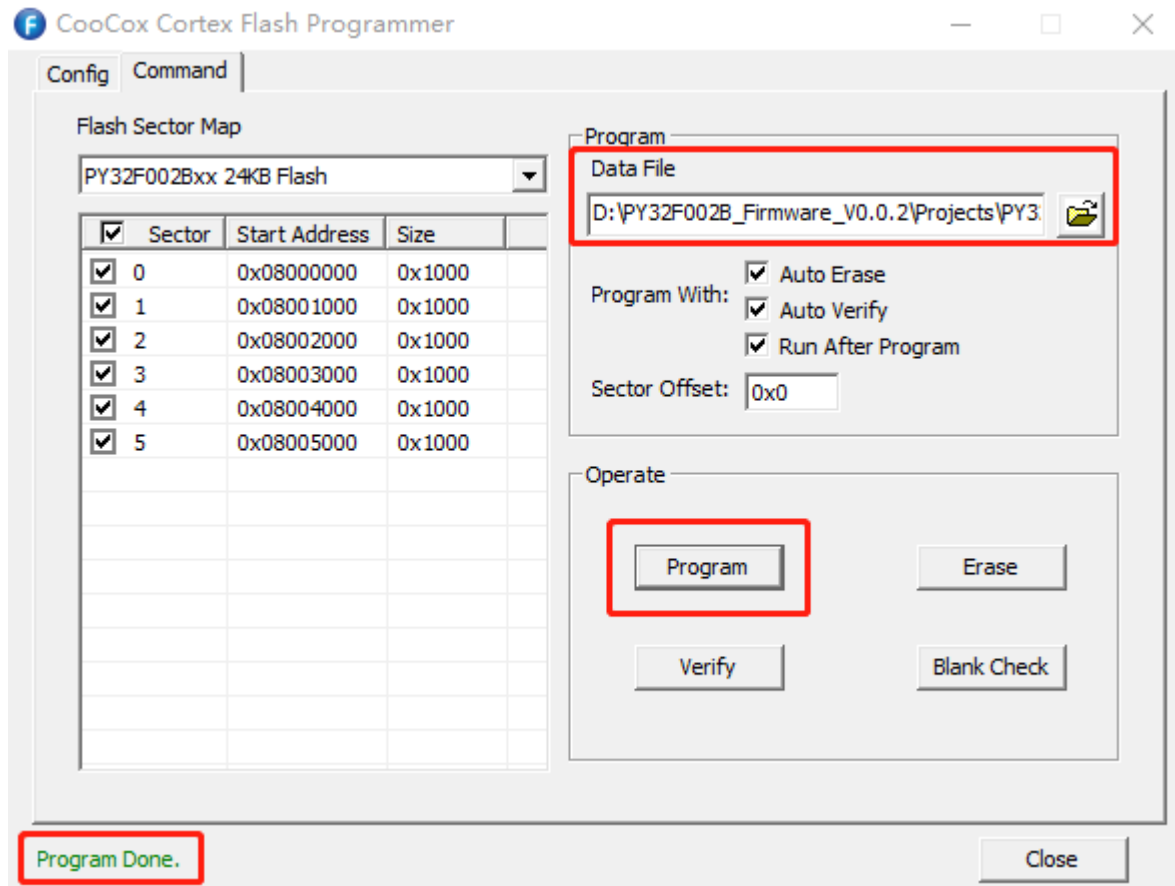
Figure 3.1-1.Config UI



3.2 Command UI

- Click the Open File button to load the target file in bin/elf format
- Click on the Program button to start downloading
- The download is completed and the "Program Done" success message is displayed

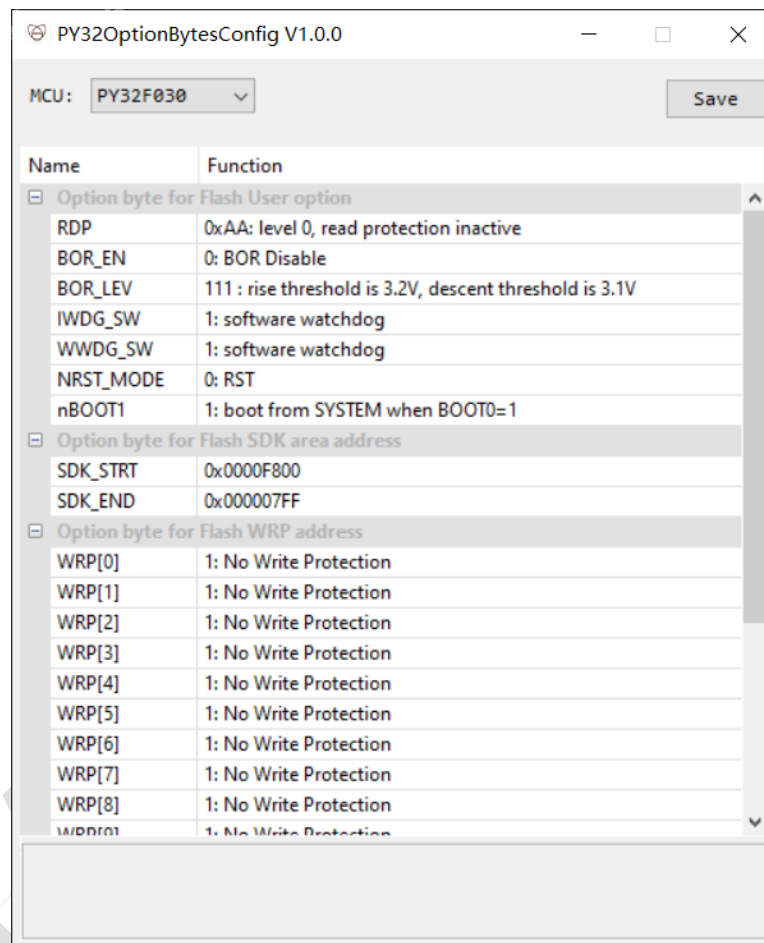
Figure 3.2-1.Command UI



3.3 Write Option Bytes

- Select "PY32F030_OPT" on the Config interface
- Use PY32OptionBytesConfig to configure options and save them to a file in *.bin format
- Click the Open File button on the Command interface to load the target file in bin/elf format
- Click the Program button on the Command interface to start downloading
- Command interface download completed, displaying "Program Done" success message

Figure 3.3-1. Use PY32OptionBytesConfig to configure options and save them to a file in *.bin format



4 Version History

Versions	Date	Update Record
V1.0	2023.6.20	First Edition



Puya Semiconductor Co., Ltd.

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