

Installation Procedure (v2.0)

Workshop: STM32H5: Ultimate combination of performance, integration, and affordability

Please follow all the installation steps below before the Workshop.

Workshop – Requirements

Important:

You need to have administration rights to be able to install drivers and software and to do the workshop.

System requirements:

Windows® (10 or later, 64 bits (x64)), macOS® (12 – Monterey, or 13 – Ventura), or Linux® (Ubuntu® LTS 20.04 and 22.04, and Fedora® 36). Please see the STM32CubeIDE installation guide for more details, it can be found at: (<u>https://www.st.com/resource/en/user_manual/um2563-stm32cubeide-installation-guide-stmicroelectronics.pdf</u>)

Minimum Hardware Requirements:

- One USB port (used for the debugger)
- One USB Type-A to Type-C Cable
- 4 GB of system memory (RAM)
- 7 GB of available disk space



STM32H5 Workshop - Installation Procedure - Introduction:

The following Software/Tools/Libraries are needed for the Workshop:

- 1. STM32CubeIDE: version 1.13.1 minimum required, if you have a previous version you will need to install a new version as explained in this installation procedure.
 - o Page 4
- 2. STM32CubeH5: version 1.1.1 minimum required, if you have a previous version you will need to install a new one as explained in this installation procedure.
 - o <u>Page 12</u>
- STM32CubeProgrammer: version 2.14.0 minimum required, if you have a previous version you will need to install a new version as explained in this installation procedure.
 Page 17
- 4. Serial Terminal application: like PuTTY (https://www.putty.org)

Notes:

- 1- Some of the versions of the software and libraries on the ST website might have newer versions than the version seen in the document, please use the latest version from the links provided in the installation procedure below.
- 2- The instructions and screenshots are specific to tools versions specified above, the layout and appearance might change with version but the procedural steps for the workshop would remain the same.
- 3- The instructions and screenshots are specific to a Windows® based system.
- 4- The look of the website may change but the links provided in this document remain the same.

The installation procedure can take several hours for downloading and installing based on the speed of the internet connection and performance of the computer system.



Questions and support ahead of the workshop

- If you have issues during the software download and install, contact ST by entering an Online Support Request for workshops at <u>https://ols.st.com/s/newcase?o=ws</u> to help resolve the issue.
- 2. In the Workshop/Event Description field, select: ***STM32H5: Ultimate combination of performance, integration, and affordability**
- 3. To ensure your request is quickly routed to the correct support team, please indicate the Workshop Request Type, either Technical or Non-Technical, that best describes your question.



STM32H5 Workshop - Installation Procedure

For the Workshop installation please follow the steps below:

1- STM32CubeIDE: STM32Cube initialization code generator

Click Link: <u>STM32CubeIDE</u> Minimum version to be installed: 1.13.1 Or use Direct Install Link: <u>https://www.st.com/en/development-tools/stm32cubeide.html</u>

In the web browser, a similar page as follows will come up:





Get Software

Click on "Get Software" button:

Click on "Get Latest" for the target operating system (shown below is for Windows):

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Get Software		
If you have an account on	my.st.com, login and download the software without any further validation steps.	
	Login/Register	
If you don't want to login r	ow, you can download the software by simply providing your name and e-mail address in the form below and validating it.	
This allows us to stay in c	ontact and inform you about updates of this software.	
For subsequent downlo	ds this step will not be required for most of our software.	
First Name:		
Last Name:		
E-mail address:		
Please review our Privacy	Statement that describes how we process your profile information and how to assert your personal data protection rights	
Please keep me init	rined about future updates for this software of new software in the same category	
	Download	

There are 3 ways of getting the software:



If you don't have an account and don't want to create one, fill in the information below:



First Name:		
Last Name:		
E-mail address:		
Please review our Privacy State	ment that describes how we process your profile information and how to assert your per	sonal data protection rights

The software will automatically download in your browser.



Unzip the file (en.st-stm32cubeide_x.x.x_xxx.zip) and you will see this:



Note: you may see a newer version in your case than the screenshot above.



Right Click on 'st-stm32cubeide_x.x.x_yyy_x86_64.exe' (x.x.x is the version number) and click on 'Run as administrator':

This PC > Downloads > en.st-stm32cubeide_1.13.0_17399_20230707_0829_x86_64.exe						
Name		Date modified	Туре	Size		
us st-stm32cubeide_1.13.0_17399_20	230707_0829_x86_64.exe	<u>7/7/2023 6:4</u> 0 AM	Application	981,566 KB		
	 Youn as administrator Open with Code Classify and protect Troubleshoot compatibility Pin to Start Move to OneDrive 7-Zip Edit with Notepad++ Scan for Viruses Share 	/ >				

Press "Next":





Press "I agree":

STMicroelectronics STM32CubeIDE —	×				
License Agreement Please review the license terms before installing STMicroelectronics STM32CubeIDE.	DE				
Press Page Down to see the rest of the agreement.					
FTMicroelectronics Software License Agreement	^				
SLA0048 Rev4/March 2018					
BY INSTALLING COPYING, DOWNLOADING, ACCESSING OR OTHERWISE USING THIS SOFTWARE PACKAGE OR ANY PART THEREOF (AND THE RELATED DOCUMENTATION) FROM STMICROELECTRONICS INTERNATIONAL N.V, SWISS BRANCH AND/OR ITS AFFILIATED COMPANIES (STMICROELECTRONICS), THE RECIPIENT, ON BEHALF OF HIMSELF OR HERSELF, OR ON BEHALF OF ANY ENTITY BY WHICH SUCH RECIPIENT IS EMPLOYED AND/OR ENGAGED AGREES TO BE BOUND BY THIS SOFTWARE PACKAGE LICENSE AGREEMENT.	~				
If you accept the terms of the agreement, click I Agree to continue. You must accept the agreement to install STMicroelectronics STM32CubeIDE.					
< Back I Agree Cano	:el				

Use the default Destination Folder - press "Next":

IDE STMicroelectronics STM32CubeIDE		_		×
Choose Install Location Choose the folder in which to install STMicroelectronics STM32CubeIDE.				IDE
Setup will install STMicroelectronics STM32CubeIDE in the followir different folder, click Browse and select another folder. Click Nex	ng folde at to cor	r. To ins ntinue.	tall in a	
Destination Folder C:\ST\STM32CubeIDE_1.13.0		Brov	vse	
Space required: 2.7 GB Space available: 343.8 GB				
< Back	Next	>	Car	ncel



Press: "Install"

STMicroelectronics STM32C	ubeIDE	_		×		
Choose Components Choose which features of STMicroelectronics STM32CubeIDE you want to install.						
Check the components you wa install. Click Install to start the	ant to install and uncheck the comp installation.	oonents you do	n't want to	D		
Select components to install:	SEGGER J-Link drivers	Description Position you over a comp see its descri	r mouse onent to ription,			
Space required: 2.7 GB						
	< Back	Install	Can	cel		

Wait for the install to complete and then press "Next":

STMicroelectronics STM32CubeIDE		
Installation Complete Setup was completed successfully.		IDE
Completed		
Show details		
	Neutra	Canad
< Back	Next >	Cancel



Press "Finish"

STMicroelectronics S	STMicroelectronics STM32CubeIDE			×	
Life.augmented	Completing STMicro STM32CubeIDE Set STMicroelectronics STM32CubeID your computer. Click Finish to close Setup.	Delectror tup DE has been in	NICS		
< Back Finish Cancel					



2- STM32CubeH5: Install STM32Cube MCU Package for STM32H5 series

Double click on STM32CubeIDE icon or look for it in your Start Menu:



Click Launch:

IDE STM32CubelDE Launcher	_			<		
Select a directory as workspace						
STM32CubeIDE uses the workspace directory to store its preferences and d	evelopme	ent artif	acts.			
Workspace: (Users\naikruch\STM32CubeIDE\workspace_1.13.0) ~	Browse					
Use this as the default and do not ask again						
Recent Workspaces						
Laun	ch	(Cancel			

Make your choice for the Usage Statistics Agreement:





Note: Before installing the package, make sure you are logged-in to the STM32CubeIDE with your "myST" account. Follow the instructions below to log-in correctly.

Click on "myST":

File Edit Source Refactor Navigate Search Project Run Window Help 💶 myST

Follow the instructions in the prompt (shown below) to login to your myST user.

WX User Authentication Dialog	×
	Neuroen
Alleady registered?	New user?
Enter your e-mail address and password to login your	myST brings you a set of personalized
myST user.	features:
	 Participate to ST Events
E-mail address	• Stay informed with ST eNewsletters
	• Get help with ST Online Support
	• Discuss on the ST Community
Password	Benefit from our Online Design Tools
	Download Software
	Order free samples Manage your weekly product undetee
Remember me on this computer.	Buy ST Products & Tools
Login	
	Create Account
Forgot password?	

If you do not already have the myST account, click on "Create Account":

Create Account

Enter the details as instructed by the prompt.

Accept the "Terms of Use" at the end of the prompt and click on "Register".



Please review our Privacy Statement that describes how we process your profile information and how to assert your personal data protection rights

I accept the Terms of Use *

Register

Follow the instructions above to login with the newly created credentials.

After successfully logging-in, you can see a prompt as shown below:

IDE User	r authentication	×
1	Authentication completed with success	
		ОК

Press 'OK' and we are ready to proceed further with the firmware package installation.

Once you are logged in, follow the instructions below to install the STM32CubeH5 Package. From STM32CubeIDE: Help -> Manage embedded software packages:







Under STM32H5, expand then check the **latest** STM32 MCU Package for STM32H5 and click "Install":

🗱 Embedded Software Packages Manager			×
STM32Cube MCU Packages and embedded software packs releases		+	_
Releases Information was last refreshed less than one hour ago.			
STM32Cube MCU Packages or STMicroelectronics RoweBots SEGGER WES emotas portGmbH	wolfSSL	~	
Description	Installed Version	Available Version	
			^
▼ STM32H5			
✓ STM32Cube MCU Package for STM32H5 Series (Size : 213.1 MB)		1.1.1	
STM32Cube MCU Package for STM32H5 Series (Size : 189 MB)		1.1.0	
STM32Cube MCU Package for STM32H5 Series (Size : 197.26 MB)		1.0.1	>
Details			
Patch Release			
STM32CubeH5 Firmware Package V1.1.0 / 09-June-2023			^
Main Changes			
Maintenance Release of STM32CubeH5 Firmware Package			
			~
From Local From Url	Refresh Install	Remove Close	9



Agree on the terms of this license agreement, by selecting "I have read, and I agree to the terms of this license agreement" and then press Finish.



Once installed it should look like this and you can press "Close":

MX Er	mbedded Software Packa	ages Manager									×
-	STM32Cube MC Releases Informa	CU Packages and embe	dded softw days ago.	are pack	s relea	ises					+-
S	TM32Cube MCU Packages	577 STMicroelectronics	RoweBots	SEGGER	WES	emotas	portGmbH	wolfSSL			
	Description							Install	ed Version	Available Versi	on
•	STM32H5										^
	STM32Cube MCU Packa	ge for STM32H5 Series						1.1.1		1.1.1	
	STM32Cube MCU Packa	ge for STM32H5 Series (Si	ze : 189 MB)							1.1.0	
	STM32Cube MCU Packa	ge for STM32H5 Series (Si	ze : 197.26 M	1B)						1.0.1	~
Deta Patc	ils h Release										
STM Mai	M32CubeH5 Firmward n Changes • Maintenance Rele	e Package V1.1.0 / 0 ease of STM32CubeH	9 -June-202 5 Firmware	23 e Packag	je						<
Fro	m Local From U	Jrl						Refresh	Install	Remove	Close

Note: In your system it might show a newer version depending on the latest version available



3 - STM32CubeProg: STM32CubeProgrammer software for programming STM32 products

Click Link: <u>STM32CubeProg</u> Minimum version required: 2.14.0 Direct Install Link: <u>https://www.st.com/content/st_com/en/products/development-tools/software-development-tools/stm32-software-development-tools/stm32-programmers/stm32cubeprog.html</u>

Note to Mac users, please check Appendix A on page 27.

	() Carters 11 Swith Card	- Support & Winneright	
Tools & Software	re Applications Solutions STM32 Developer Zone		About Us 👿 🖇
Development Tools > Software Development Tools > STM32 Software Development Tools > STM32	2 Programmers > STM32CubeProg >		
	STM32CubeProg	Save to MyST	
	STM32CubeProgrammer se	oftware for all STM32	
	e mezeuser regrammer e		
	Cet Software Download databrief		
	Overview Documentation Tools & Software		
	Product overview		
	Description All features Circuit Diagram Get Software Fe	atured Products Featured Videos Recommended for you	
	Description		
	Description		
	STM32CubeProgrammer (STM32CubeProg) is an all-in-one multi-OS s	oftware tool for programming STM32 products.	
		R It provides an easy to use and efficient environment for reading, writing and verifying device memory through both the debug interface	
	CTMOO	(JTAG and SWD) and the bootloader interface (UART, USB DFU, FC, SPI, and CAN).	
	51 W132	STM32CubeProgrammer offers a wide range of features to program STM32 internet memorial force as Earth DAM, and OTEN as well as	
	CubeProgrammer	oxional monorios.	
		STM32CubeProgrammer elso allows option programming and upload, programming content verification, and programming automation	
	through scripting.		
	STM32CubeProgrammer is delivered in GUI (graphical user interface) a	nd CLI (command-line interface) versions.	
	All features		
	· Erases, programs, views and ventiles the content of the device	 Offers a command-line interface for automation through scripting 	
	Flash momory Supports Motorola S19, Intel HEX, ELF, and hinary formatis	 ST-LINK firmware update Enables secure firmware creation using the STM32 Trusted 	
	 Supports debug and bootloader interfaces. 	Package Creator tool	

Click on:

Get Software

17



	Get Software						
	Part Number	General Description	Latest version $\stackrel{\scriptscriptstyle A}{=}$	Download 🍦	All versions		
+	STM32CubePrg-Lin	STM32CubeProgrammer software for Linux	2.14.0	Get latest	Select version \lor		
+	STM32CubePrg-Mac	STM32CubeProgrammer software for Mac	2.14.0	Get latest	Select version \lor		
+	STM32CubePrg-W32	STM32CubeProgrammer software for Win32	2.14.0	Get latest	Select version \lor		
+	STM32CubePrg-W64	STM32CubeProgrammer software for Win64	2.14.0	Get latest	Select version \lor		

Please get the latest software version available that will be accessible by clicking on:



Click on:



Get Software	
If you have an account on	my.st.com, login and download the software without any further validation steps.
	Login/Register
If you don't want to login n	ow, you can download the software by simply providing your name and e-mail address in the form below and validating
This allows us to stay in c	ontact and inform you about updates of this software.
For subsequent downloa	ads this step will not be required for most of our software.
First Name:	
Last Name:	
E-mail address:	
Please review our Privacy	Statement that describes how we process your profile information and how to assert your personal data protection right
Please keep me info	ormed about future updates for this software or new software in the same category
	Download
	of acting the cofficiency
e ale 5 ways (or getting the software.

Login/Register

If you don't have one, create one by clicking on:

If you don't have an account and don't want to create one, fill in the information below:

First Name:				
Last Name:				
E-mail address:				
Please review our Privacy Statement that describes how we process your profile information and how to assert your personal data protection rights				



Download

Then click:

Unzip the file (en.stm32cubeprg-win64-v2-14-0.zip)

This PC > Downloads >			
Name	Date modified	Туре	Size
V Today (4)			
📴 en.st-stm32cubeide_1.13.0_17399_20230707_0829_x86_64.exe (1).zip	7/17/2023 12:04 PM	zip Archive	973,978 KB
en.stm32cubeh5-v1-1-0.zip	7/17/2023 1:57 PM	zip Archive	194,538 KB
en.stm32cubeprg-win64-v2-14-0.zip	7/17/2023 2:22 PM	zip Archive	382,200 KB
en.stm32cubeprg-win64-v2-14-0	7/17/2023 2:26 PM	File folder	

Note: you may see a newer version in your case than the screenshot above.

Right Click on SetupSTM32CubeProgrammer-win64.exe and Run as administrator.

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$\leftarrow \rightarrow \checkmark \uparrow$] > This PC > De	ownloads > en.stm32cubep	prg-win64-v2-14-0				ٽ ~	✓ Search en.stm32cu
🖈 Quick access	Name	^	Date modified	Туре	Size		
OneDrive	RetupSTM32CubePro	ogrammer win64 eve	7///2023.6·18.AM	Application	382,217 KB		
OneDrive - STMicroelectronics		Run as administrato	r				
STMicroelectronics		Classify and protect					
🧢 This PC		Troubleshoot comp	atibility				
♥ Network		Pin to Start Move to OneDrive 7-Zip Cdit with Notepad+ Scan for Viruses Give access to Pin to taskbar Restore previous vei Send to Cut Copy Create shortcut Delete Rename Properties	+>				
1 item 1 item selected 373 MB							
							0



Press Next:

Prg STM32Cubel	Programmer Installation Wizard	_		\times
Welcome to the	Installation of STM32CubeProgrammer 2.14.0			1
Step 1 of 9			CubePro	grammer
life.augmented	Starting STM32CubeProgrammer 2.14.0 installation The homepage is at: http://www.st.com/en/development-tools/stm3	2cube	prog.html	
STMicroelectronics				
		1 🥠	Vext 🛛 🔇	Quit

Press Next:

Prg STM32CubeProgrammer Installation Wizard			×
Information			grammer
Step 2 01 9			
Please read the following information:			
STM32Cube programming software for STM32 microcontrollers			~
Features • Supports Motorola S19, Intel HEX, ELF, and binary formats • Erases, programs, views and verifies the content of the device Flash memory • Supports debug and bootloader interfaces: • ST-LINK debug probe (JTAG/SWD) • UART and USB DFU bootloader interfaces • Programs, erases and verifies external memories, with examples of external Flash loaders to help users to develop loaders for specific external memories			
Automates STM32 programming (erase, verify,			
programming, configuring option bytes)			
 Allows OTP memory programming 			
 Supports the programming and configuring of 			
option bytes			•
STMicroelectronics			
Previous	Ę	≥Next 🧕 🔇	3 Quit



Accept the Terms and then click on Next:



Accept the Privacy Policy and Terms of Use.





Important note: If you have a previous version, it will be overwritten if you keep the default path. So, if you want to keep your previous version you will need to install the new version in a different directory. For the workshop, be sure to use the version that we are installing here or a later one.

Once you have decided on the path then press "Next":

Prg STM32Cube	Programmer Installation Wizard	_		\times
STM32CubeProg	grammer Installation path		CTM22	
Step 5 of 9			CubePro	grammer
Lie.cugmented	Select the installation path: C:\Program Files\STMicroelectronics\STM32Cube\STM32C	ubeProgrammer	E Bro	WSE
STMicroelectronics	🔶 Pi	revious 🔶 I	Vext	Quit

Select the packs that you want to install and press "Next":

Prg STM32Cube	Programmer Installation Wizard				\times
STM32CubeProg	grammer Components selection			STM32 CubePro	grammer
Lie.augmented	Select the packs you want to install: Note: Grayed packs are required. Core Files STM32CubeProgrammer SigningTool and Keygen STM32TrustedPackageCreator			4	82 MB 95.34 4.97 MB 57 MB
	Core files Total space required: Available space:			63 34	89.31 MB 45.62 GB
STMicroelectronics		Previous	i → N	lext C	Quit



Follow those steps to install the ST-LINK Driver: Press Next:



Press Finish:

Device Driver Installation Wizar	d			
	Completing the Device Driver Installation Wizard The drivers were successfully installed on this computer.			
	You can now connect your devi came with instructions, please re	ce to this computer. If your device ad them first.		
	Driver Name STMicroelectronics (Win STMicroelectronics (Win STMicroelectronics (usb	Status Ready to use Ready to use Ready to use		
	< Back	Finish Cancel		



Wait for the install to complete and then press Next:

Prg STM32CubeProgrammer Installation Wizard				\times
STM32CubeProg	grammer Package installation		STM32 CubeF	Programmer
	Pack installation progress:			
life.augmented	[Finished] Overall installation progress:			
STM32 Cube	4 / 4			
STMicroelectronics				
	e Prev	rious 📦	• Next	🛿 Quit

Select the options to create the shortcuts as desired and then press next:

Fig STM32CubeProgrammer Installation Wizard				\times	
STM32CubeProg Step 8 of 9	rammer Shortcuts setup			STM32 CubeProg	rammer
Ife.augmented	 ✓ Create shortcuts in the Start-Menu ✓ Create additional shortcuts on the desktop Select a Program Group for the Shortcuts: (Default) 7-Zip Accessibility Accessories Administrative Tools Cisco IAR EW for Arm 9.30.1 Maintenance 	~	create shorto ○ current u ④ all users	aut for: ser	
	STMicroelectronics\STM32CubeProgrammer		D	efault	
STMicroelectronics		🔶 Prev	vious 🖗 N	ext 🔇	Quit



Press Done:



Open STM32CubeProgrammer to make sure it was installed properly.



Appendix A: STM32CubeProgrammer Installation and Opening for macOS users

MacOS users might face some issues while installing or opening the already installed application for STM32CubeProgrammer. In such cases, please refer to the ST Community thread explaining the solution for similar issue, linked below:

https://community.st.com/t5/stm32cubeprogrammer-mcu/how-to-download-stm32cubeprogrammer-onmacos-monterey-12-6/m-p/143983

Please refer to the first solution posted by ST Employee.

Problem:

Listed below are some known issues which can be resolved by following the instructions in the linked mentioned above:

- Issue while installing the CubeProgrammer with an error "cannot be opened because the developer cannot be verified".
 - > Follow all the steps in the solution section below.
- Cannot open the installed application. To elaborate, the application tends to pop up in the "Dock" but never open.
 - > Follow from step-3 in the solution section below.

Solution:

1. Install CubeProgrammer using the command:

```
sudo xattr -cr ~/SetupSTM32CubeProgrammer-macos.app
```

2. In case of using the .exe installer use this command:

sudo java -jar SetupSTm32CubeProgrammer-2.14.0.exe

Expect a popup during the installation indicating the following:

en/../../jre: No such file or directory

Continue Installation?

Press "Continue" to finish the installation of the tool.

3. Copy the jre folder from the downloaded setup package



- 4. Open the CubeProgrammer install folder"../Applications/STMicroelectronics/STM32Cube/STM32CubeProgrammer"
- 5. Right click on STM32CubeProgrammer.app and select "Show Package Contents"
- 6. Paste the copied jre folder here.
- 7. After following the above installation steps, if CubeProgrammer couldn't be launched via GUI, please try to laund it via CLI as follows,
 - a. Navigate to the
 - "../Applications/STMicroelectronics/STM32Cube/STM32CubeProgrammer/STM32CubePr ogrammer.app/Contents/MacOs/bin/"
 - b. Type the command;

java -jar STM32CubeProgrammer

c. If the jre folder exists in CubeProgrammer install folder, type the following command:

../../jre/bin/java -jar STM32CubeProgrammer