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## ST-MCU-FINDER-PC release 4.0.0

### Introduction

This release note is updated periodically to keep abreast of ST MCUFinder (ST-MCU-FINDER-PC) evolution, problems and limitations. Check STMicroelectronics website at [www.st.com/en/development-tools/st-mcu-finder-pc.html](http://www.st.com/en/development-tools/st-mcu-finder-pc.html) for the latest version. Refer to [Table 1](#) for the latest release summary.

**Table 1. ST-MCU-FINDER-PC 4.0.0 release summary**

Type	Summary
Major release	<ul style="list-style-type: none"><li>Added the support for the <i>Example Selector</i> that enables example filtering among several parameters</li><li>Added the support for Java® JRE™ bundling</li></ul>

### Customer support

For more information or help concerning ST MCUFinder, contact the nearest STMicroelectronics sales office or use the ST community at [community.st.com](http://community.st.com). For a complete list of STMicroelectronics offices and distributors, refer to the [www.st.com](http://www.st.com) webpage.

### Software updates

Software updates and all the latest documentation can be downloaded from the STMicroelectronics webpage at [www.st.com/en/development-tools/st-mcu-finder-pc.html](http://www.st.com/en/development-tools/st-mcu-finder-pc.html).



# 1 General information

## 1.1 Overview

The [ST-MCU-FINDER-PC](#) application allows exploring and connecting to the complete portfolio of STM32 Arm® Cortex®-M, STM32 Arm® Cortex®-A7, and STM8 microcontrollers and microprocessors directly from the developer's desktop environment.

The tool helps the user to:

- Find the MCU, MPU, board part number or example that best fits the user's application by means of an easy search with multiple criteria
- Have access to MCU, MPU and board technical documentation, key features, and functional block diagrams
- Find STMicroelectronics MCUs and MPUs with features similar to a given STM32, STM8 or competitor product
- Download up-to-date technical documentation for off-line consulting
- Buy on line from STMicroelectronics distributors
- Launch the [STM32CubeMX](#) application for the selected STM32 MCU, MPU or board
- Have access to STM32 social media and ST Community

*Note:* Arm is a registered trademark of Arm Limited (or its subsidiaries) in the US and/or elsewhere.



## 1.2 Host PC system requirements

### Supported operating systems and architectures

- Windows® 8: 64-bit (x64)
- Windows® 10: 64-bit (x64)
- Linux® (tested on Red Hat®, Ubuntu®, and Fedora® 64-bit (x64))
- macOS® (minimum version OS X® El Capitan)

*Note:* Linux® is a registered trademark of Linus Torvalds.

Red Hat® is a registered trademark of Red Hat, Inc.

Ubuntu® is a registered trademark of Canonical Ltd.

Fedora® is a trademark of Red Hat, Inc.

macOS® and OS X® are trademarks of Apple Inc. registered in the U.S. and other countries.

All other trademarks are the property of their respective owners.

### Software requirements

There is no need to install any Java® SE Runtime Environment (JRE™) for version 4.0.0. The ST-MCU-FINDER-PC runs with a bundled JRE™ available inside the downloaded package and no longer with the one installed on the user's machine.

*Note:* The bundled JRE™ is Liberica 1.8.0\_265 of BellSoft.

The previous versions of ST-MCU-FINDER-PC require a Java® Runtime Environment (JRE™) to execute.

The JRE™ version constraints are:

- 64-bit version mandatory; 32-bit version not supported
- Minimum JRE™ version is 1.8\_45 (known limitation with 1.8\_251)
- Version 11 is supported
- Versions 7, 9, 10, 12 and upper are not supported

The macOS® software requirements are:

- Xcode must be installed on macOS® computers
- Both Xcode and Rosetta must be installed on macOS® computers embedding the Apple® M1 processor

## 1.3 Setup procedure

### 1.3.1 Installing ST-MCU-FINDER-PC

To install **ST-MCU-FINDER-PC**, start by opening the product webpage at [www.st.com/en/development-tools/st-mcu-finder-pc.html](http://www.st.com/en/development-tools/st-mcu-finder-pc.html) in an Internet browser and click on **[Get Software]**. After accepting the license terms, follow one of the procedures below depending on the target operating system:

- On Windows®
  1. Choose the ST-MCU-FINDER-PC-Win line
  2. Extract/unzip the `SetupSTMCFinder-xxx-Win.zip` file
  3. Check the access rights and launch the installation wizard by double-clicking on `SetupSTMCFinder-xxx-Win.exe`
- On Linux®
  1. Choose the ST-MCU-FINDER-PC-Lin line
  2. Extract/unzip the `SetupSTMCFinder-xxx-Lin.zip` file
  3. Make sure access rights are granted to the target installation directory. It is possible to run the installation as root (or sudo) to install ST-MCU-FINDER-PC in shared directories
  4. Enter `chmod 777 SetupSTMCFinder-xxx` to make the file executable
  5. Double-click on the `SetupSTMCFinder-xxx` file or launch it from the console window
- On macOS®
  1. Choose the ST-MCU-FINDER-PC-Mac line
  2. Extract/unzip the `SetupSTMCFinder-xxx-Mac.zip` file
  3. Make sure administrators rights are granted
  4. Double-click on the `SetupSTMCFinder-xxx.app` application file to launch the wizard
    - In case of error, try the following command: `sudo xattr -cr ~/SetupSTMCFinder-xxx.app`

## 1.3.2 Uninstalling ST-MCU-FINDER-PC

### Uninstalling ST-MCU-FINDER-PC from Windows®

There are three different ways to uninstall ST-MCU-FINDER-PC from Windows®.

- Through the Windows® *Control Panel*:
    - Select `Programs and Features` from the Windows® *Control Panel* to display the list of programs installed on the computer
    - Right-click `STMCUFinder` and select **[uninstall]**
  - From a shell prompt with admin rights, by using the following commands:
    - For ST-MCU-FINDER-PC 4.0.0:
      - `cd <ST MCUFinder installation path>\Uninstaller`
      - `uninstall.bat`
    - For ST-MCU-FINDER-PC 3.1.0 and earlier versions:
      - `java -jar <ST MCUFinder installation path>\Uninstaller\uninstaller.jar`
  - Through a Windows® *File Explorer* window:
    - For ST-MCU-FINDER-PC 4.0.0:
      - Go to the `Uninstaller` folder in ST-MCU-FINDER-PC installation directory
      - Right-click the `uninstall.bat` and select **[run as administrator]**
    - For ST-MCU-FINDER-PC 3.1.0 and earlier versions only:
      - Go to the `Uninstaller` folder in ST-MCU-FINDER-PC installation directory
      - double-click `startuninstall.exe`
- or
- double-click the `uninstall` shortcut on the desktop

### Uninstalling ST-MCU-FINDER-PC from macOS®

There are two different ways to uninstall ST-MCU-FINDER-PC from macOS®.

- Move `STMCUFinder.app` to the trash
- or
- Use the following command lines:
    - For ST-MCU-FINDER-PC 4.0.0 only:
      - `cd <ST-MCU-FINDER-PC installation path>/Uninstaller`
      - `./uninstall.sh`
    - For ST-MCU-FINDER-PC 3.1.0 and earlier versions only:
      - `java -jar <ST-MCU-FINDER-PC installation path>/Uninstaller/uninstaller.jar`

### Uninstalling ST-MCU-FINDER-PC from Linux®

There are two different ways to uninstall ST-MCU-FINDER-PC from Linux®.

- From a shell prompt by launching the uninstall script:
  - For ST-MCU-FINDER-PC 4.0.0:
    - `cd <ST-MCU-FINDER-PC installation path>/Uninstaller`
    - `uninstall.sh`
  - For ST-MCU-FINDER-PC 3.1.0 and earlier versions:
    - `java -jar <ST-MCU-FINDER-PC installation path>/Uninstaller/uninstaller.jar`
- From a file explorer:
  - For ST-MCU-FINDER-PC 4.0.0:
    - Go to `<ST-MCU-FINDER-PC installation path>/Uninstaller`
    - Double-click the `uninstall.sh` script
  - For ST-MCU-FINDER-PC 3.1.0 and earlier versions:
    - Go to `<ST-MCU-FINDER-PC installation path>/Uninstaller`
    - Double-click the `start uninstall desktop shortcut`

## 1.4 License

ST-MCU-FINDER-PC is delivered under the *Mix Ultimate Liberty+OSS+3rd-party V1* software license agreement (SLA0048).

Section 1.4 summarizes the software components used in the development of ST-MCU-FINDER-PC, and their licenses.

**Table 2. List of software component licenses**

Name	Copyright	License <sup>(1)</sup>	Details
ST components	STMicroelectronics	Proprietary	SLA0048
ant	The Apache Ant Project	Apache-2.0	mvnrepository.com
org.apache.ant	The Apache Software Foundation		
ant-launcher	The Apache Software Foundation		
commons-cli	Kevin Atkinson		
commons-collections4	The Apache Software Foundation		
commons-io	The Apache Software Foundation		
commons-lang3	The Apache Software Foundation		
commons-logging	The Apache Software Foundation		
commons-net	The Apache Software Foundation		
filters	The Apache Software Foundation		
freemarker	The Apache Software Foundation		
gson	Google Inc.		
httpClient	The Apache Software Foundation		
httpcore	The Apache Software Foundation		
ini4j	The Apache Software Foundation		
Iz Pack	Julien Ponge		
jackson-annotations	The Apache Software Foundation		
jackson-core	Tatu Saloranta		
jackson-databind	Tatu Saloranta		
jna	The Apache Software Foundation		
joda-time	The Apache Software Foundation		
log4j	The Apache Software Foundation		
org.apache.commons.io	The Apache Software Foundation		
OWASP Zed Attack Proxy	The ZAP Development Team		
poi	The Apache Software Foundation		



Name	Copyright	License <sup>(1)</sup>	Details
poi-ooxml	WSO2 Inc.	Apache-2.0	mvnrepository.com
poi-ooxml-schemas	The Apache Software Foundation		
proxy-vole	Markus Bernhardt		
sqlite-jdbc	David Crawshaw		
stax-api	The Apache Software Foundation		
xmlbeans	BEA Systems		
com.l2fprod.commonpropertysheet	L2FProd.com		
JTabbedPane	TERAI Atsuhiko	MIT	java-swing-tips.blogspot.com/2008/04/dragand-drop-tabs-injtabbedPane.html?_sm_au_=ifcRfQMvjQfV8ts3cLpsvK618Vf61
bcmail-jdk14	The Legion of the Bouncy Castle Inc.		mvnrepository.com
bcprov-jdk14			
bctsp-jdk14			
curvesapi	Graph Builder	BSD-3-Clause	github.com/codehaus/jaxen/tree/master/jaxen
jaxen	The Werken Company		
json	The JSON License	The json license	mvnrepository.com
cream	Duy Tran Le		cspst.gitlab.io/cream/
jcommon	Free Software Foundation, Inc.	LGPL-2.1	mvnrepository.com
swingx	Sun Microsystems, Inc.		
jfreechart	Free Software Foundation, Inc.	LGPL-3.0	
jSerialComm	Fazecast, Inc.		
swing-worker	Free Software Foundation, Inc.		
semver4j	Vincent Durmont	MIT	
itext	Free Software Foundation, Inc.	MPL-1.1	
TextBubbleBorder	Andrew Thompson	CC-BY-SA 4.0	stackoverflow.com/questions/15025092/border-with-rounded-corners-transparency
FileNameValidator	Nick J. R. T.		stackoverflow.com/questions/893977/javahow-to-find-out-whether-a-file-name-is-valid
lzma-sdk-4j	Igor Pavlov	The lzdma license	github.com/b1-pack/lzma-sdk-4j
jdom	Jason Hunter and Brett McLaughlin	The jdom license	github.com/hunterhacker/jdom

1. License identifier as defined by OSI ([opensource.org/licenses/alpha](https://opensource.org/licenses/alpha)) or SPDX ([spdx.org/licenses/](https://spdx.org/licenses/)).



## 1.5 Cross-selector data disclaimer

The information presented in the cross-reference tool is intended to help the users to narrow their search of STMicroelectronics products based on similarity to other available products. The information is based on data published by other semiconductor manufacturers and might contain errors. STMicroelectronics provides the information “as is” and does not make any representations or warranties as to its accuracy or suitability for any particular purpose. STMicroelectronics recommends that the users make their purchase decision based on their review of STMicroelectronics datasheets and other product documentation. Any pricing information is an estimate for budgetary purposes only.



## 2 ST-MCU-FINDER-PC 4.0.0 release information

### 2.1 New features

- Added the support for the *Example Selector* that enables example filtering among several parameters
- Added the support for Java® JRE™ bundling
- Added the support for *Favorites* as a filter in [**Export to Excel**] and *Save/Load* search criteria
- Added the support for contextual documentation in *Board Selector*
- Added distinct parameters in *STM32* and *STM8* tabs for the *MCU Results table* popup menus
- Added a splash screen at the launch of the ST MCUFinder

### 2.2 Fixed issues

**Table 3. Main issues fixed in ST-MCU-FINDER-PC 4.0.0**

ID	Summary
35363	[MCUFinder] [Linux] Bad behavior when scrolling in the <i>MCUList</i> table.
52510	[all selectors] <i>Data refresh</i> : exit refresh at a first fail.
54269	[all selectors] Only one <i>Set proxy</i> pop-up to be opened in case of wrong proxy.
58526	[MCUFinder] OpenSuse Linux - UI exception when loading ST MCUFinder.
67907	[MCUFinder] Using the [ <b>Check/Uncheck All</b> ] button for filters has a different effect than selecting elements manually.
69034	[MCUFinder] Non ST PC with no Internet connection: exception when opening a document.
70509	[MCUFinder] After a refresh data, the max and min thumbs filters sliders do not work properly.
75550	[all selectors] The scrollbar does not work properly in small screen.
87392	[MCUFinder][macOS] Bad result table for <i>MCU/MPU Selector</i> .
89700	[all selectors] Display downloaded advertising image instead of default one if available in cache.
98560	[all selectors] Unable to do a reset after activating the [ <b>Favorites</b> ] button.
98685	[MCUFinder] Canceling a <i>Data Refresh</i> returns an empty MCU list.

### 2.3 Limitations

- No self-upgrade from ST-MCU-FINDER-PC 3.x to 4.0.0
- *Example Selector*
  - The feature is functional only for the examples related to the [STM32F4 Series](#), [STM32F7 Series](#), [STM32G0 Series](#), [STM32G4 Series](#), [STM32H7 Series](#), [STM32L5 Series](#), [STM32WB Series](#), and [STM32WL Series](#).
  - The feature *Start Project in External IDE* is not available from ST-MCU-FINDER-PC. Run [STM32CubeMX](#) to start a project.
  - When the user selects an example, the “size” of the “*Required Software Package*” could be unknown. To get the “size” value, the user must perform the following series of actions:
    1. Click on the [**Connectivity and data management**] button (gear wheel icon)
    2. Select the [**Check for Update**] menu item
    3. Click on the [**Refresh**] button
- Under Ubuntu®, automatically uninstalling ST-MCU-FINDER-PC does not work completely. To finalize the uninstallation, the user must delete manually the ST MCUFinder installation path.

## 3 Previous releases

### 3.1 ST-MCU-FINDER-PC 3.1.0 release information

#### 3.1.1 New features

*Cross Selector* extension:

- Side-by-side comparison of a competitor product with approaching STM32 or STM8 products

Easy multi-filter query improvement:

- The cursor remains available after filter selection

#### 3.1.2 Fixed issues

**Table 4. Main issues fixed in ST-MCU-FINDER-PC 3.1.0**

ID	Summary
40930	Double RMs for STM8L101xx MCUs.
55731	The number of STM8L151M8 GPIO pin is different.
56442	Running STMCUFINDER in 64-bit Linux® (Opensuse).
57004	[CrossSelector] Filters badly displayed after mode switch.
58824	[CrossSelector] Wrong ADC features in cross-selector.
59239	No SDMMC in peripheral tab at STM32H7.
67313	[McuSelector] Issue when selecting a checkbox: cursor is lost.

#### 3.1.3 Limitations

- Advanced graphic filter not available
- Contextual documentation not available in *Board Selector*
- [STM32Cube Expansion Packages](#) such as for artificial intelligence are not available

### 3.2 ST-MCU-FINDER-PC 3.0.0 release information

#### 3.2.1 New features

- New user interface with flat design and new look and feel
- New *Cross Selector* feature (PC version only):
  - Side-by-side comparison of a reference MCU with approaching MCUs
  - Selection of the relevant comparison criteria and tuning of their respective importance
- Added contextual documentation for any core, Series and peripheral MCU filter

#### 3.2.2 Fixed issues

**Table 5. Main issues fixed in ST-MCU-FINDER-PC 3.0.0**

ID	Summary
443	STM8 supported IPs: mismatch between MCUFinder and datasheets.
531	When moving sliders: other filters not to be refreshed and cursor lost.

ID	Summary
568	Pdf document versions to be displayed.
39197	Keyboard usage to be allowed for Part Number Search.
39794	<i>Board Selector</i> : wrong price for some boards.
40321	Some L462xx MCUs: bad voltage values.
53315	License acceptance to be requested during MCUFinder upgrades.
54278	Load searches display to be enhanced.
54624	STM32L0 Value Line: bad frequency value for L0 Value Line MCUs.
55061	Copy/paste of current MCU selection with ctrl+C and ctrl+V to be supported.
55200	MCUs to be displayed in ascending order.
55319	Sliders (Package/Series...) to be refreshed only after releasing the mouse click.
56281	Wrong name for STM8AF52A8Tx.

### 3.2.3 Limitations

- Advanced graphic filter not available
- Contextual documentation not available in *Board Selector*

### 3.3 ST-MCU-FINDER-PC 2.0.1 release information

#### Corrections

- Ticket 53284 - [ST-MCU-FINDER - Board Selector] All Nucleo-64 and Nucleo-144 boards are missing
  - “Boards Filters” don’t contain neither Nucleo-64 nor Nucleo44 type
  - “Boards List” contains no Nucleo-64 or Nucleo-144 boards

Missing boards are: "NUCLEO-F030R8", "NUCLEO-F070RB", "NUCLEO-F072RB", "NUCLEO-F091RC", "NUCLEO-F103RB", "NUCLEO-F207ZG", "NUCLEO-F302R8", "NUCLEO-F303RE", "NUCLEO-F303ZE", "NUCLEO-F334R8", "NUCLEO-F401RE", "NUCLEO-F410RB", "NUCLEO-F411RE", "NUCLEO-F412ZG", "NUCLEO-F413ZH", "NUCLEO-F429ZI", "NUCLEO-F446RE", "NUCLEO-F446ZE", "NUCLEO-F722ZE", "NUCLEO-F746ZG", "NUCLEO-F767ZI", "NUCLEO-H743ZI", "NUCLEO-L053R8", "NUCLEO-L073RZ", "NUCLEO-L152RE", "NUCLEO-L433RC-P", "NUCLEO-L452RE", "NUCLEO-L452RE-P", "NUCLEO-L476RG", "NUCLEO-L496ZG", "NUCLEO-L496ZG-P, "NUCLEO-L4R5ZI"
- Ticket 53488 - [ST-MCU-Finder-PC - MCU Selector] "Core" checklist with mixed case (Arm instead of ARM)
  - "Core" Filters labels are "Arm..." in place of "ARM..."

### 3.4 ST-MCU-FINDER-PC 2.0.0 release information

#### New features

- Board availability
  - New board selection tab
  - New board column in the MCUs list. Clicking on a link opens the board view
- Excel table extraction
  - Available for the *Board Selector* and the *MCU Selector*
  - Export to Excel button: outputs an Excel File containing two worksheets
    - Worksheet 1: List of the selected MCUs and boards
    - Worksheet 2: Selected filters
- Favorite part numbers saving and loading for MCUs and boards
  - Save: clicking on the star icon of a part number adds it to the list of favorites
  - Load: clicking on the Favorite icon above the filters loads all favorite part numbers
- Display of similar items (Close selector tool)
  - Display of additional MCUs that do not match exactly the user’s criteria
  - A new *Match* column gives the search matching ratio. A match value lower than 100% indicates a MCU that does not entirely match the search criteria such as, for instance, an MCU cheaper than requested.

## Revision history

**Table 6. Document revision history**

Date	Revision	Changes
23-Mar-2018	1	Initial release.
21-Sep-2018	2	Added <i>Chapter 2: ST-MCU-FINDER-PC 2.0.1 release information</i> . Updated <i>Chapter 3: ST-MCU-FINDER-PC 2.0.0 release information title</i> .
11-Dec-2018	3	Added <i>Section 1.3 Setup procedure</i> and <i>Section 1.4 Licensing</i> . Updated whole document for release 3.0.0, including <i>Section 2 ST-MCU-FINDER-PC 3.0.0 release information</i> .
16-Jul-2019	4	Updated whole document for release 3.1.0, including <i>Section 2 ST-MCU-FINDER-PC 3.1.0 release information</i> . Added section <i>Cross-selector data disclaimer</i> .
23-Feb-2021	5	Updated whole document for release 4.0.0, including <i>Section 2 ST-MCU-FINDER-PC 4.0.0 release information</i> , <i>Section 1.2 Host PC system requirements</i> , and <i>Section 1.3 Setup procedure</i> .

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