
ST-MCU-FINDER-PC release 3.1.0

Introduction

This release note is updated periodically to keep abreast of ST MCUFinder (ST-MCU-FINDER-PC) evolution, problems and limitations. Check STMicroelectronics support website at www.st.com/stmcfinder for the latest version. Refer to [Table 1](#) for the latest release summary.

Table 1. ST-MCU-FINDER-PC 3.1.0 release summary

Type	Summary
Major release	<ul style="list-style-type: none">New <i>Cross Selector</i> feature: finds the STMicroelectronics MCU or MPU that best matches the features of another STMicroelectronics STM32 or STM8 product, or competitor productEasy multi-filter query improvement

Customer support

For more information or help concerning ST MCUFinder, contact the nearest STMicroelectronics sales office. For a complete list of STMicroelectronics offices and distributors, refer to the www.st.com webpage.

Software updates

Software updates and all the latest documentation can be downloaded from the STMicroelectronics support webpage at www.st.com/stm32softwaretools.



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 or board part number 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[®] 7: 32-bit (x86), 64-bit (x64)
- Windows[®] 8: 32-bit (x86), 64-bit (x64)
- Windows[®] 10: 32-bit (x86), 64-bit (x64)
- Linux[®] (tested on Red Hat[®], Fedora[®] and Ubuntu[®], 32 and 64 bits)
- macOS[®] (minimum version OS X[®] Yosemite)

Software requirements

The Java[™] Run Time Environment version 1.8_45 64-bit must be installed. Limited validation is done with Java[™] 11. Java[™] 7, Java[™] 9, and Java[™] 10 are not supported.

Note: *Red Hat[®] is a registered trademark of Red Hat, Inc.*

Fedora[®] is a trademark of Red Hat, Inc.

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macOS[®] is a trademark of Apple Inc. registered in the U.S. and other countries.

OS X[®] is a trademark of Apple Inc., registered in the U.S. and other countries.

Java is a registered trademark of Oracle and/or its affiliates.

1.3 Setup procedure

Refer to the [ST-MCU-FINDER-PC installation guide](#) user manual (UM2175) available at www.st.com.

For Windows® and Linux®, install Java™ Run Time Environment version 1.8_45 64-bit.

1.4 Licensing

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

The software components used in the development of ST MCUFinder and their licenses are listed in [Table 2](#).

Table 2. List of software component licenses

Name	Version	License type	Details ⁽¹⁾
log4j	1.2.17	Apache® License, Version 2.0	mvnrepository.com
com.l2fprod.common	6.9.6-G8		
joda-time	2.9.9		
org.ini4j	0.5.4		
com.jhlabs	2.0.235		
commons-codec	1.1		
org.apache.commons	4.1		
org.apache.httpcomponents	4.5.4		
com.jhlabs	2.0.235		
com.github.markusbernhardt	1.0.3		
commons-net	3.2		
org.apache.ant	1.9.4		
org.apache.directory.studio	2.4		
ant	1.6.5		
com.fasterxml.jackson.core	2.9.0		
commons-io	2.4		
commons-logging	1.2		
org.apache.poi	3.17		
org.apache.xmlbeans	2.6.0		
org.xerial.sqlite-jdbc	3.27.2		
stax	1.0.1		
org.jdom	1.1.3	Apache® License, Version 2.0 ⁽²⁾	
com.github.virtuald	1.04	Open source BSD	
org.json	20140117	The JSON License	
org.swinglabs	1.1	Lesser General Public License (LGPL)	
net.java.dev.jna	4.2.2	LGPLv2	
com.vdurmont	2.0.2	The MIT License	
com/lowagie	2.1.7	Mozilla® Public License	
org/bouncycastle	1.38	BouncyCastle License	

1. Search for the proper version of the component in the MVN repository.
2. Similar to Apache® License, Version 2.0, with the acknowledgment clause removed.

1.5 Cross-selector data disclaimer

The information presented in the cross-reference tool is intended to help the users 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 3.1.0 release information

2.1 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

2.2 Fixed issues

Table 3. 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.

2.3 Limitations

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

3 Previous releases

3.1 ST-MCU-FINDER-PC 3.0.0 release information

3.1.1 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

3.1.2 Fixed issues

Table 4. 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.
568	Pdf document versions to be displayed.
39197	Keyboard usage to be allowed for Part Number Search.
39794	Board Selector: 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.

3.1.3 Limitations

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

3.2 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..."

3.3 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 5. Document revision history

Date	Version	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 Section 2 ST-MCU-FINDER-PC 3.1.0 release information . Added section Cross-selector data disclaimer .

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