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## STM32CubeIDE for Visual Studio Code installation guide

### Introduction

This installation guide for STM32CubeIDE for Visual Studio Code ([STM32VSCode](#)), in short STM32CubeIDE for VS Code which is a variant of the [STM32CubeIDE](#). It gives directions on how to install software on each of the operating systems it supports. It is primarily intended to software developers or system administrators who are about to install the STM32CubeIDE for VS Code product.

This installation guide covers the following topics:

- [System requirements](#)
- [Important information](#)
- [STM32CubeIDE for VS Code installation](#)
- [Probe drivers installation](#)
- [Uninstall STM32CubeIDE for VS Code](#)



## 1 System requirements

STM32CubeIDE for VS Code is tested and verified on the Microsoft® Windows®, Linux®, and macOS® versions listed in this chapter.

**Important:** Only 64-bit OS versions are supported.

## arm

STM32CubeIDE for VS Code provides tools to build, program, run, and debug applications targeting STM32 microcontrollers based on the Arm® Cortex®-M processor.

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### 1.1 Microsoft® Windows®

- Windows® 10, 64 bits (x64)
- Windows® 11, 64 bits (x64)

**Note:** Microsoft, Visual Studio, VS Code, and Windows are trademarks of the Microsoft group of companies.

### 1.2 Linux®

- Ubuntu® LTS 22.04
- Ubuntu® LTS 24.04
- Fedora® 41

**Note:** Linux® is a registered trademark of Linus Torvalds.  
Ubuntu® is a registered trademark of Canonical Ltd.  
Fedora® is a trademark of Red Hat, Inc.

### 1.3 macOS®

- macOS® 14 (Sonoma)
  - x86
  - AArch64
- macOS® 15 (Sequoia)
  - x86
  - AArch64

**Note:** macOS® is a trademark of Apple Inc., registered in the U.S. and other countries and regions.

### 1.4 Hardware requirements

- Processor: 1.6 GHz or faster
- Memory: 1 Gbyte of RAM
- Hard disk space: 4 Gbytes of free space
- Display: 1024 × 768 minimum resolution

### 1.5 License

STM32VSCoDe is delivered under the SLA0048 software license agreement and its Additional License Terms.

## 2 Important information

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### Installation of STM32CubeIDE for VS Code extensions

VS Code® is a shared environment. Extensions might conflict with each other. For a sandboxed experience, STMicroelectronics recommends installing STM32CubeIDE for VS Code in a dedicated profile.

More information about profiles is available at [code.visualstudio.com/docs/configure/profiles](https://code.visualstudio.com/docs/configure/profiles).

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### Installation of probe drivers

In the current version, installing the debug probe drivers requires administrator privileges. The user must install them manually.

### Uninstallation

In the current version, STM32CubeIDE for VS Code is the only tool using packs and bundles. Consequently, these can be removed as part of the uninstallation procedure. However, users must be cautious not to apply this global procedure if other STM32Cube tools share some of the packs and bundles.

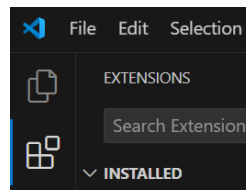
### 3 STM32CubeIDE for VS Code installation

STM32CubeIDE for VS Code is provided as an extension, not as a standalone IDE package. The first step is to install Visual Studio Code from <https://code.visualstudio.com/download>. Once Visual Studio Code is installed, add the STM32Cube extension as described below:

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1. Open Visual Studio® Code.
2. Navigate to the extension view by clicking on the *Extensions* icon in the *Activity Bar* on the side of the window.

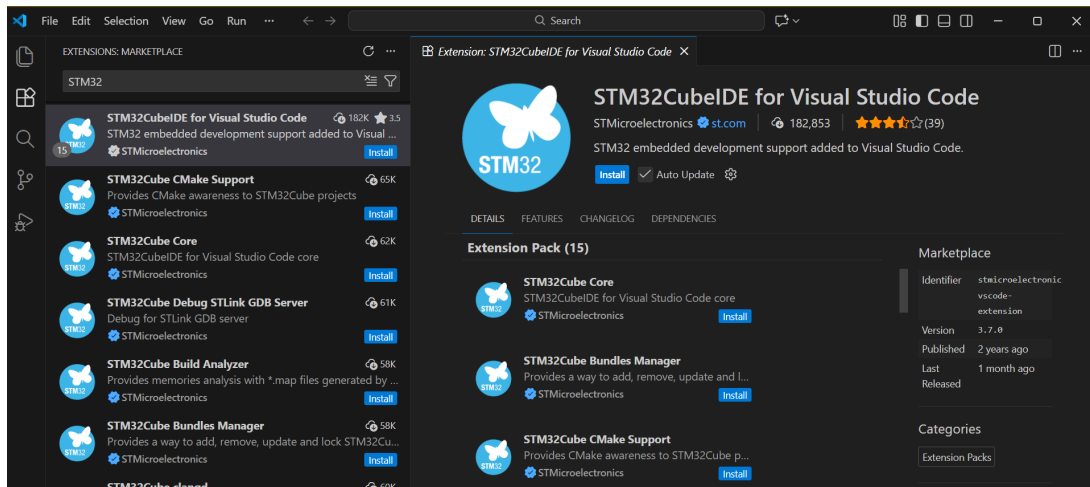
**Figure 1. Extensions icon in VS Code® Activity Bar**



DTT6662V1

3. Search for *STM32* in the *Extensions* marketplace.

**Figure 2. STM32CubeIDE for Visual Studio Code in the Extensions marketplace**



DTT6663V2

4. Click the caret next to the *Install* button for the *STM32CubeIDE for Visual Studio Code* extension by STMicroelectronics, and select *Install Pre-Release Version* from the drop-down menu.

## 4 Probe drivers installation

When setting up STM32CubeIDE for VS Code, installing the necessary drivers is crucial for ensuring proper communication between the development board and the computer. Below are the detailed instructions for installing drivers for both ST-LINK and SEGGER J-Link.

### ST-LINK USB driver

For an ST-LINK probe, follow these steps:

1. Access STM32Cube for VS Code extension:  
Navigate to *STM32Cube for VS Code Extension*.
2. Locate STM32Cube resources:  
Within the extension, find the section labeled *STM32Cube Resources*.
3. Install ST-LINK USB driver:  
Click on *ST-Link USB Drivers* to begin the installation process. Ensure that the ST-LINK interface is correctly set up for communication with the STM32 development board.

### SEGGER J-Link driver

For a SEGGER J-Link probe, follow these steps:

1. Visit SEGGER's website:  
Go to the SEGGER J-Link driver download page at [www.segger.com/downloads/jlink](http://www.segger.com/downloads/jlink).
2. Download the *J-Link Software and Documentation Pack*:  
Select the appropriate package for the operating system and download it.
3. Install the drivers:  
Follow the installation instructions provided by SEGGER to install the J-Link drivers on the computer.

## 5 Uninstall STM32CubeIDE for VS Code

To uninstall the software package of STM32CubeIDE for VS Code, follow the steps below:

1. Open the *Extensions* activity in VS Code® (**Ctrl+Shift+X**)
2. Select the extension in the primary bar
3. Uninstall *STM32Cube for Visual Studio Code extensions pack*

Depending on the operating system, common assets are located in the user's file system as follows:

- **Windows®:** `$HOME/AppData/Local/stm32cube/bundles`
- **Linux®:** `$HOME/.local/share/stm32cube/bundles`
- **macOS®:** `$HOME/Library/Application Support/stm32cube/bundles`

## Revision history

**Table 1. Document revision history**

Date	Revision	Changes
04-Jun-2025	1	Initial release.
24-Mar-2026	2	Added: <ul style="list-style-type: none"> <li>• <a href="#">Section 1.5: License</a></li> </ul> Updated: <ul style="list-style-type: none"> <li>• <i>STM32Cube for Visual Studio Code</i> has been replaced throughout the document with <i>STM32CubeIDE for Visual Studio Code</i></li> <li>• <i>STM32Cube for VS Code</i> has been replaced throughout the document with <i>STM32CubeIDE for VS Code</i></li> <li>• <a href="#">Section 2: Important information</a></li> <li>• <a href="#">Section 3: STM32CubeIDE for VS Code installation</a> <ul style="list-style-type: none"> <li>– <a href="#">Figure 2. STM32CubeIDE for Visual Studio Code in the Extensions marketplace</a></li> </ul> </li> </ul>

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