

ALIENTEK

A collection of software download methods

V1.0

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Revision History:

Version	Version Update Notes	Responsible person	Proofreading	Date
V1.0	release officially	ALIENTEK	ALIENTEK	2025.04.01

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Chapter 1. Serial Port Software Installation

1.1 CH342 USB serial port

We need to install this driver for the computer to communicate with the development board by serial port. Login to the official website of Qinheng <https://www.wch-ic.com/>, download the serial port driver **CH343SER.EXE** and install.

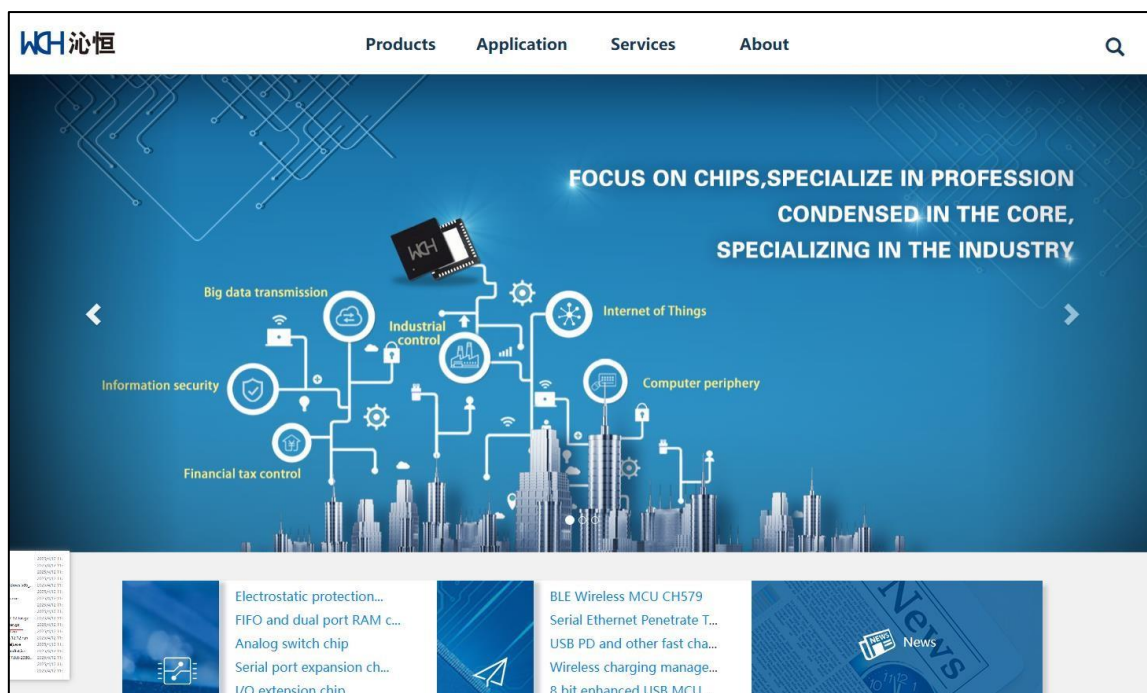


Figure 1.1-1 Install the serial driver

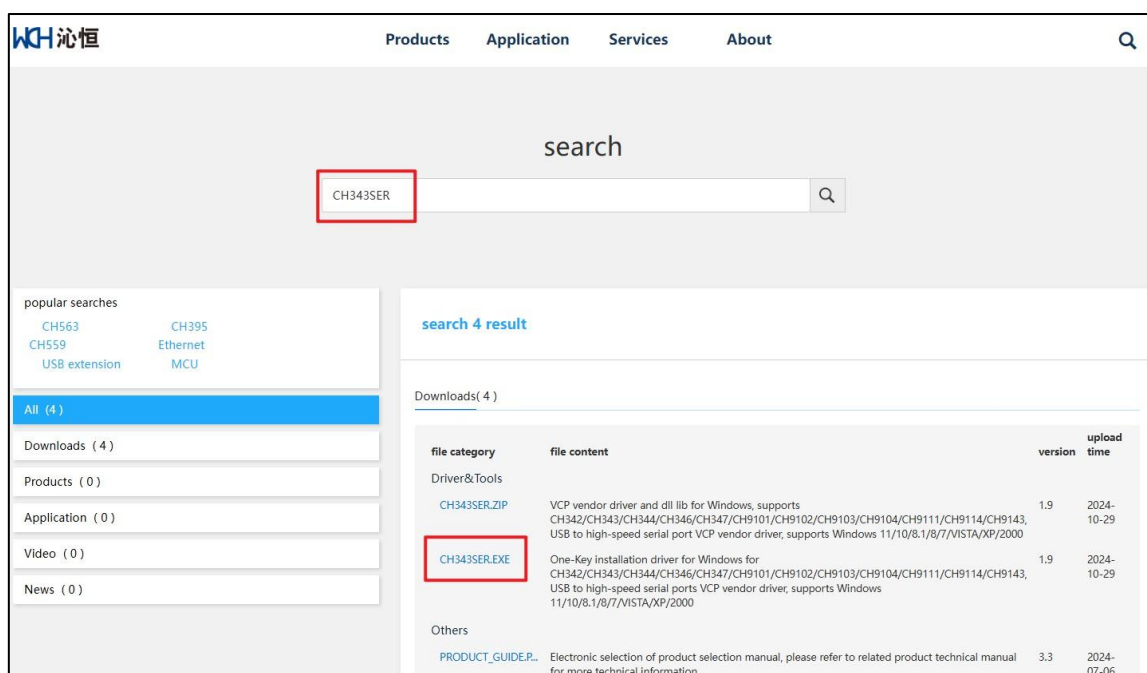


Figure 1.1-2 Search directly for CH343SER.EXE

After searching CH343SER.eXE directly, the search content will appear below, and you can download it by clicking directly.

1.2 MobaXterm terminal software

Install MobaXterm terminal software (or install Xshell, SecureCRT and other terminal software)

Take, for example, MobaXterm: <https://mobaxterm.mobatek.net/>. Download the installation package from the official website. Double-click to open the package, wait for it to be unpacked, and then double-click MobaXterm_installer_12.3.msi to install it. The MobaXterm installer will guide you through the installation.

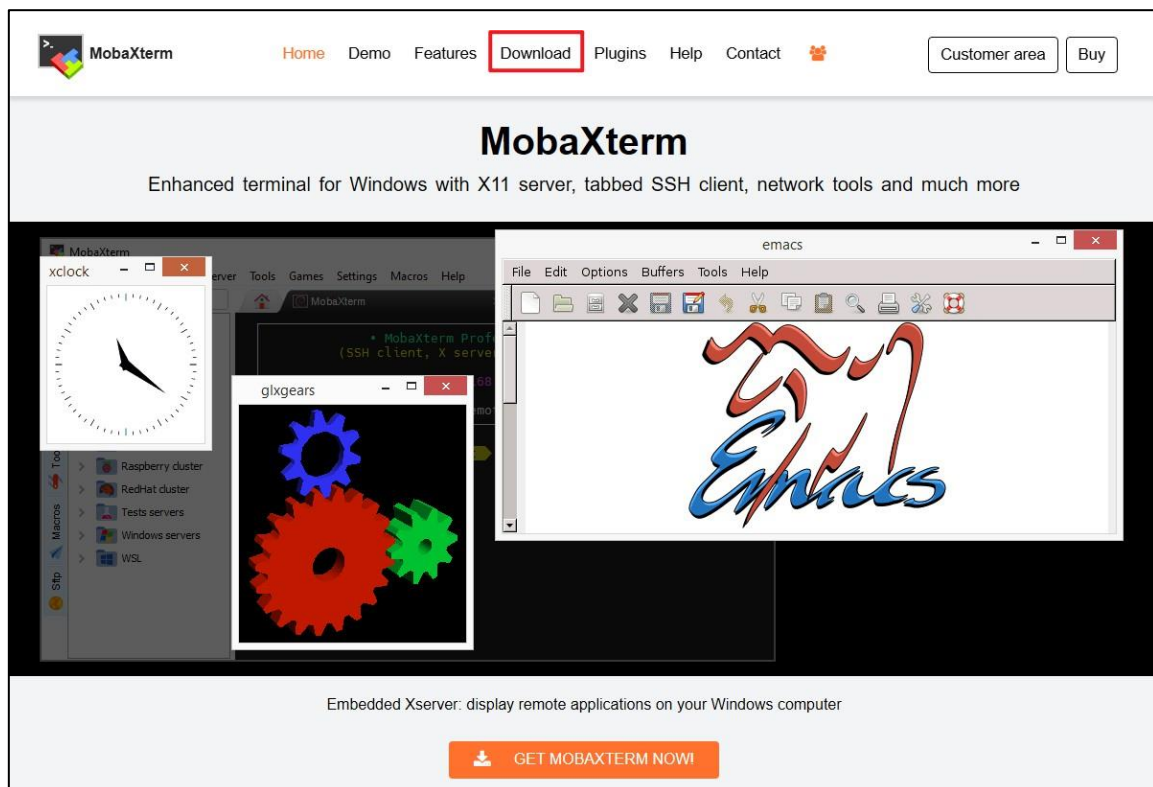


Figure 1.2-1 Log in to the official website

Click Download, then select a version.

MobaXterm Home Demo Features **Download** Plugins Help Contact Customer area Buy

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Free

Full **X server** and **SSH** support
Remote desktop (RDP, VNC, Xdmcp)
Remote terminal (SSH, telnet, rlogin, Mosh)
X11-Forwarding
Automatic SFTP browser
Master password protection
Plugins support
Portable and installer versions
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Max. **12** sessions
Max. **2** SSH tunnels
Max. **4** macros
Max. **360** seconds for Tftp, Nfs and Cron

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* Excluding tax. Volume discounts [available](#)

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Figure 1.2-2 Select version to download

1.3 STM32CubeProgrammer

We use STM32CubeProgrammer tools for burning system under Windows, we can go to the ST's official website https://www.st.com.cn/content/st_com/zh.html to download the tool.

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Figure 1.3-1 Go to the official website

Search result >

STM32CubeProgrammer

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REFINE BY TYPE Clear

> Development tools (4)

REFINE BY VENDOR Clear

☐ ST (4)

4 tools & software: STM32CubeProgrammer

Part Number	Status	Type	Category	Description
STM32CubeProg	ACTIVE	Development Tools	Software Development Tools	STM32CubeProgrammer software for all STM32
FLASHER-STM32	NRND	Development Tools	Software Development Tools	STM32 Flash loader demonstrator (UM0462) (replaced by STM32CubeProgrammer)
STVP-LIB-STM32	NRND	Development Tools	Software Development Tools	STVP programming toolkit (replaced by STM32CubeProgrammer)
STVP-STM32	NRND	Development Tools	Software Development Tools	ST Visual Programmer STM32 (replaced by STM32CubeProgrammer)

Figure 1.3-2 Search directly for STM32CubeProgrammer

Download

Get Software

Part Number	General Description	Latest version	Download	All versions
STM32CubePrg-Lin	STM32CubeProgrammer software for Linux	2.19.0	Get latest	Select version
STM32CubePrg-Mac	STM32CubeProgrammer software for Mac	2.19.0	Get latest	Select version
STM32CubePrg-W32	STM32CubeProgrammer software for Win32	2.19.0	Get latest	Select version
STM32CubePrg-W64	STM32CubeProgrammer software for Win64	2.19.0	Get latest	Select version

STMicroelectronics recommends always keeping your software up to date

Figure 1.3-3 Choose this one

After selecting the version to download, login to the ST account to download.

1.4 FTP Client Software -- FileZilla

Under Windows we use the FileZilla FTP client that this is a free FTP client software, can be downloaded in the FileZilla website, download address is as follows: <https://www.filezilla.cn/download>

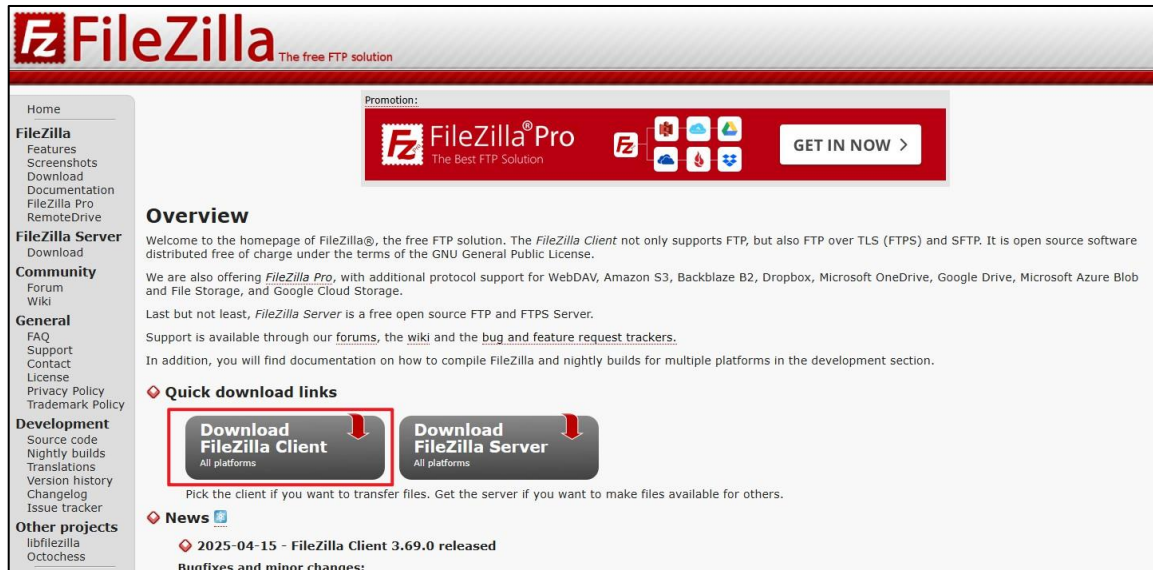


Figure 1.4-1 FileZilla Software Download



Figure 1.4-2 Click to Install

We download the 64-bit version of FileZilla.

1.5 Visual Studio Code

VSCode is a free editor from Microsoft. Available for Windows, Linux, and macOS, VSCode is a cross-platform editor. VSCode download address is <https://code.visualstudio.com/>. The download interface is shown below.

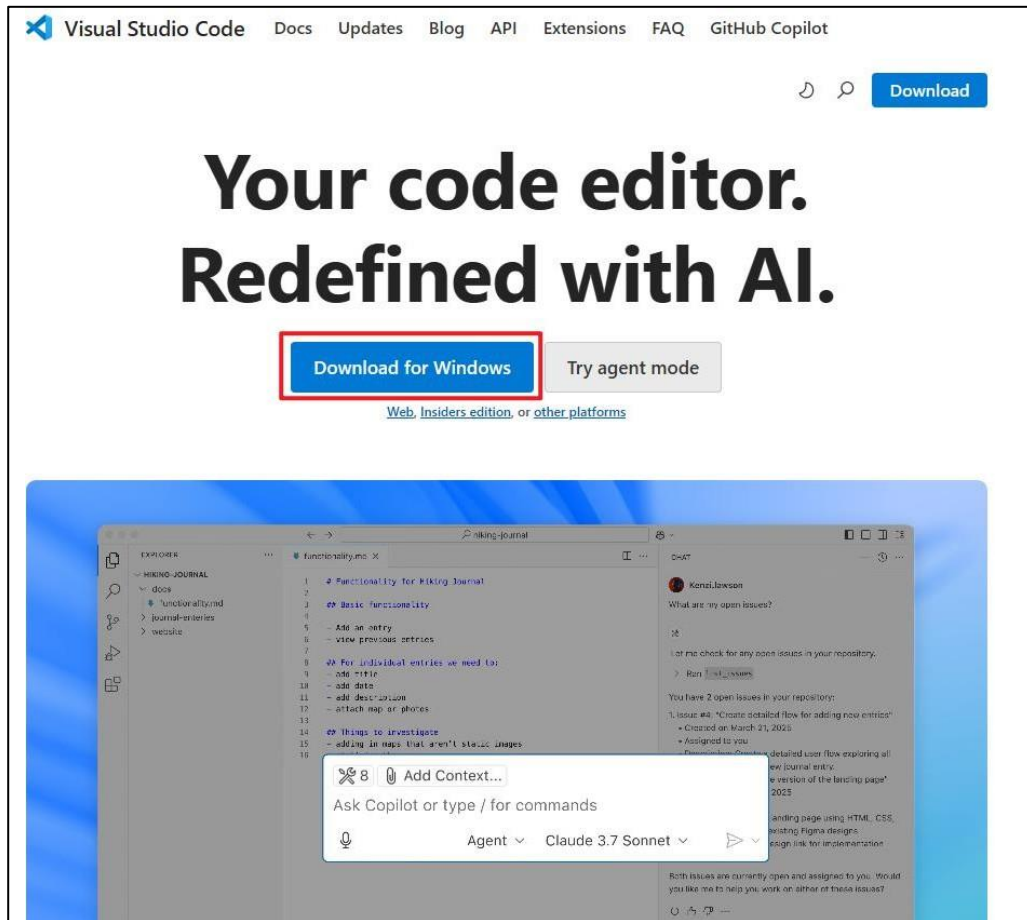


Figure 1.5-1 VSCode download interface

We need both Windows and Linux versions, so after we download the Windows version, we can click other platforms to download the Linux version.

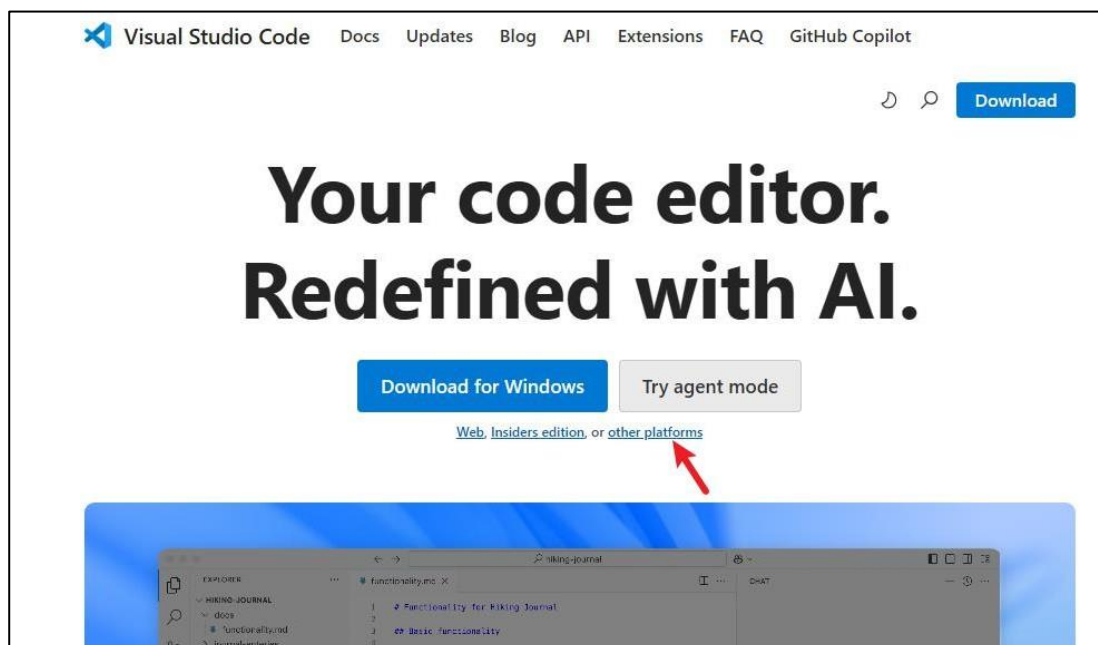


Figure 1.5-2 Other platforms

Visual Studio Code Docs Updates Blog API Extensions FAQ GitHub Copilot

Download

Download Visual Studio Code

Free and built on open source. Integrated Git, debugging and extensions.

Windows
Windows 10, 11

User Installer x64 Arm64
System Installer x64 Arm64
.zip x64 Arm64
CLI x64 Arm64

.deb
Debian, Ubuntu

.rpm
Red Hat, Fedora, SUSE

.deb x64 Arm32 Arm64
.rpm x64 Arm32 Arm64
.tar.gz x64 Arm32 Arm64
Snap Snap Store
CLI x64 Arm32 Arm64

Mac
macOS 10.15+

.zip Intel chip Apple silicon Universal
CLI Intel chip Apple silicon

Figure 1.5-3 Download the linux version

1.6 VMware Workstation

We used VMware Workstation software to make the virtual machine. VMware Workstation software can be downloaded from the VMware official website at:

<https://www.vmware.com/products/desktop-hypervisor/workstation-and-fusion>

We download the Windows version.

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Fusion and Workstation

Run Windows, Linux and other virtual machines with VMware Workstation Pro for Windows and Linux or VMware Fusion for Mac, the industry standard desktop hypervisors.

DOWNLOAD FUSION OR WORKSTATION

Product Overview Compare FAQ Resources

Figure 1.6-1 VMware Download page

I use Windows11 here, tested VMware Workstation17 version can be used, if it is a lower version of the system, you can use a lower version of VMware Workstation, some versions of the system may not be compatible with the situation.

1.7 Ubuntu

Ubuntu system image in the Ubuntu website access, download address is: <https://www.ubuntu.com/download/desktop>, as shown in the figure below:

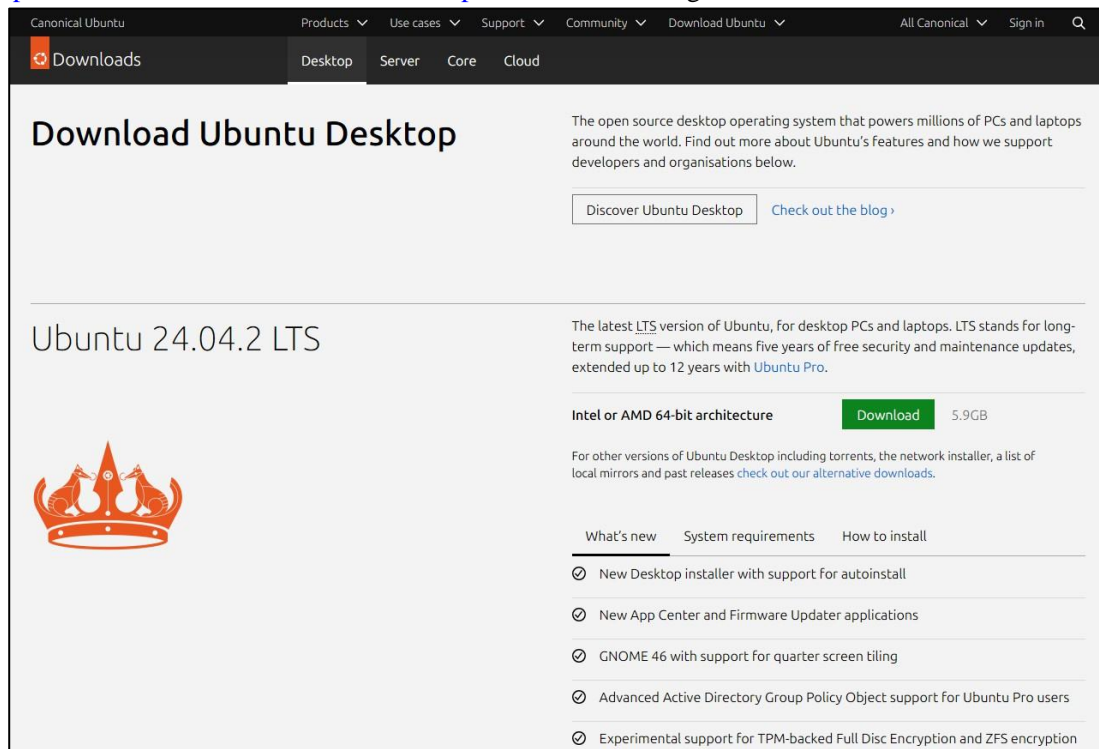


Figure 1.7-1 Ubuntu Download

As shown in the figure, we download the latest version 24.04.2.