STM32CubeProg　ACTIVE

STM32CubeProgrammer software for all STM32

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Overview

Product overview

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Description

STM32CubeProgrammer (STM32CubeProg) is an all-in-one multi-OS software tool for programming STM32 products.

It provides an easy-to-use and efficient environment for reading, writing and verifying device memory through both the debug interface (JTAG and SWD) and the bootloader interface (UART, USB DFU, I^{2}C, SPI, and CAN).

STM32CubeProgrammer offers a wide range of features to program STM32 internal memories (such as Flash, RAM, and OTP) as well as external memories.

STM32CubeProgrammer also allows option programming and upload, programming content verification, and programming automation through scripting.
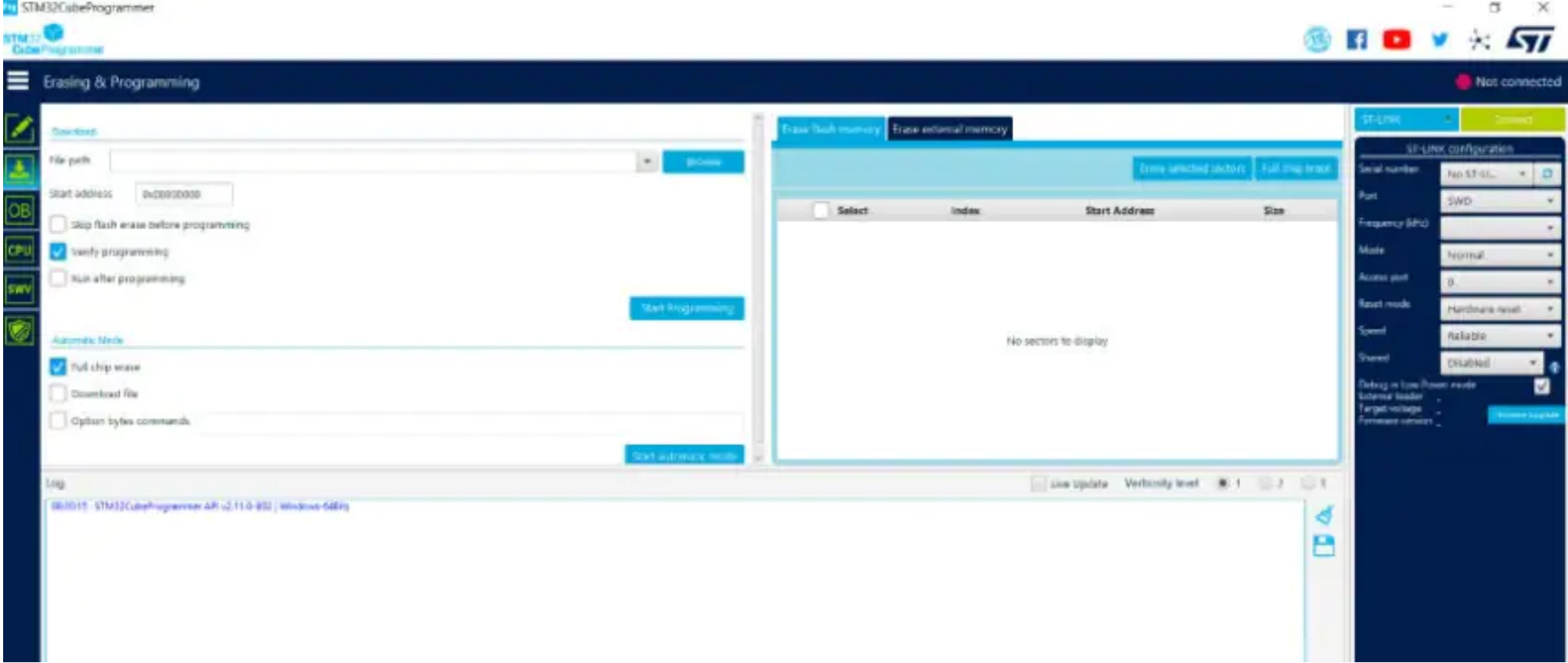
STM32CubeProgrammer is delivered in GUI (graphical user interface) and CLI (command-line interface) versions.

All features

- Erases, programs, views and verifies the content of the device Flash memory
- Supports Motorola S19, Intel HEX, ELF, and binary formats
- Supports debug and bootloader interfaces:
  - ST-LINK debug probe (JTAG/SWD)
  - UART, USB DFU, I^{2}C, SPI, and CAN 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

- Offers a command-line interface for automation through scripting
- ST-LINK firmware update
- Enables secure firmware creation using the STM32 Trusted Package Creator tool
- STM32MP1 Series peripheral boot and flashing
- Supports OTA programming for the STM32WB Series
- Multi-OS support: Windows, Linux, macOS

Everything you need for your STM32 development in one place.

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Circuit Diagram

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Get Software

	Part Number	General Description	Latest	Supplier	ECCN (EU)	ECCN (US)	Download	All versions
+	STM32CubePrg-W32	STM32CubeProgrammer software for Win32	2.13.0	ST	NEC	EAR99	Get latest	Select version ⌄
+	STM32CubePrg-W64	STM32CubeProgrammer software for Win64	2.13.0	ST	NEC	EAR99	Get latest	Select version ⌄
+	STM32CubePrg-Lin	STM32CubeProgrammer software for Linux	2.13.0	ST	NEC	EAR99	Get latest	Select version ⌄
+	STM32CubePrg-Mac	STM32CubeProgrammer software for Mac	2.13.1	ST	NEC	EAR99	Get latest	Select version ⌄

Everything you need for your STM32 development in one place.

Featured Products
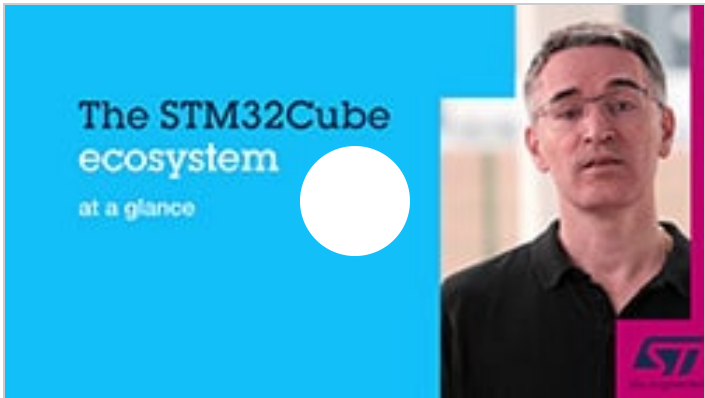
Discover STLINK-V3SET

Our new modular in-circuit debugger and programmer for STM32 and STM8 microcontrollers

STLINK-V3MINIE debug probe for STM32

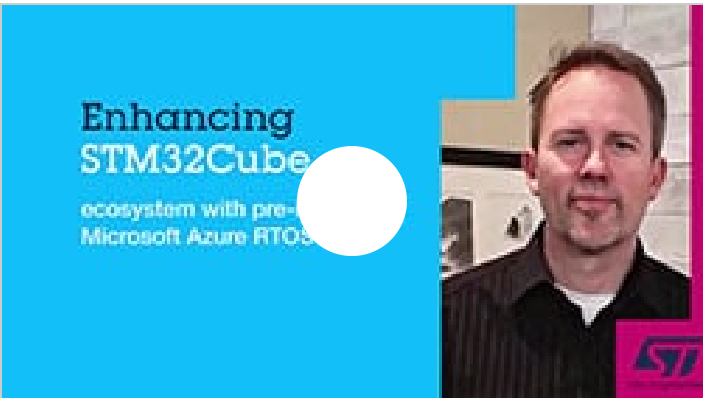Compact and convenient at affordable price

Featured Videos

The STM32Cube ecosystem at a glance - Laurent Desseignes

Quick summary of what STM32Cube can bring to you.

▶ **Watch the video (6:06)**

Enhancing STM32Cube ecosystem with pre-integrated Microsoft Azure RTOS

ST and Microsoft is a perfect match. An incredible amount of traction in the IoT and across all market segments.

▶ **Watch the video (3:58)**

Getting started with STLINK-V3 debugger/programmer

The STLINK-V3SET is a modular stand-alone debugging and programming probe for the STM8 and STM32 microcontrollers. It is composed of a main module and a complementary adapter board. The SWIM and JTAG/SWD interfaces are used to communicate with any STM8 or STM32 microcontroller located on an application board. The modular architecture of STLINK-V3SET enables to extend its main features through additional modules such as the adapter board.

▶ **Watch the video (2:32)**

Recommended for you

Premium Content

On-demand webinar Bluetooth mesh and Zigbee mesh networks on STM32WB MCUs

On-demand Webinar: Microsoft Azure RTOS quick and easy integration with STM32Cube ecosystem

On-demand Webinar: Certified STM32WB module takes your wireless IoT design to the next level

Related Applications

Functions

⟩ Connectivity (1)

　　Wireless Connectivity

⟩ Embedded Security (1)

　　Embedded Security for Personal Electronics

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STM32MCU WIKI
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STM32CubeProgrammer 2.6:
Sigfox on STM32WL Now More Accessible

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