

STLINK-V3 PROBES

For STM32 MCUs/MPUs and STM8 MCUs



Faster, more flexible probes simplify programming and debugging

The STLINK-V3SET is an all-in-one, high-performance, debugging and programming probe for STM8 and STM32 MCUs/MPUs. The SWIM and JTAG/SWD interfaces let developers easily communicate with any STM8 or STM32 target on an application board.

The STLINK-V3SET also provides a Virtual COM port interface allowing the host PC to communicate with the target through a UART as well as several bridge interfaces for programming the target through the bootloader.

Its modular architecture based on extension cards makes the STLINK-V3SET future-proof: the B-STLINK-VOLT extension adds voltage adaptation (1.65-3.3V) for debug and bridge signals, while the B-STLINK-ISOL card provides enhanced isolation.



STLINK-V3SET



B-STLINK-VOLT

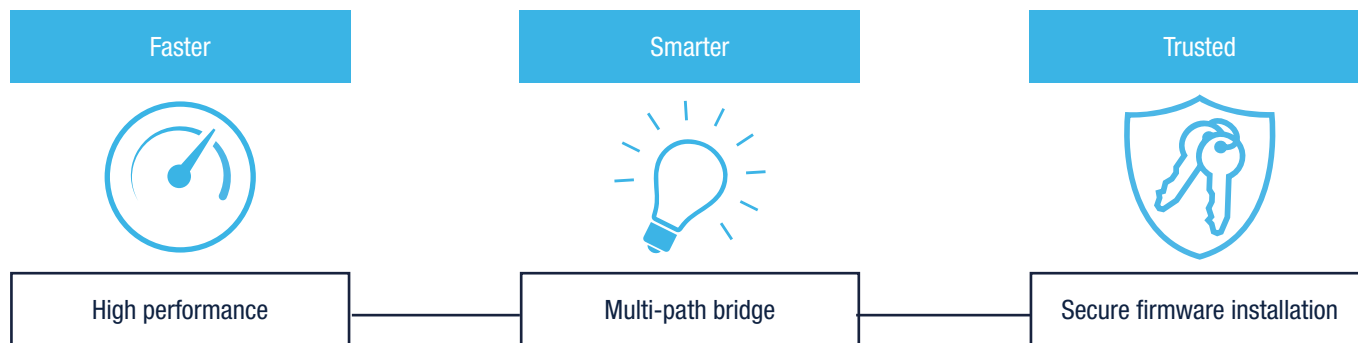


B-STLINK-ISOL

KEY FEATURES & BENEFITS

- STLINK-V3SET probes with modular extension cards
- Self-powered through a USB connector and USB 2.0 high-speed-compatible interface
- JTAG/SWD (STM32) and SWIM (STM8) debug interfaces
- Drag-n-Drop flash programming
- Virtual COM port
- Multi-path USB bridge to SPI/UART/I2C/CAN/GPIOs
- Secure firmware installation using the STM32HSM

Standalone probes



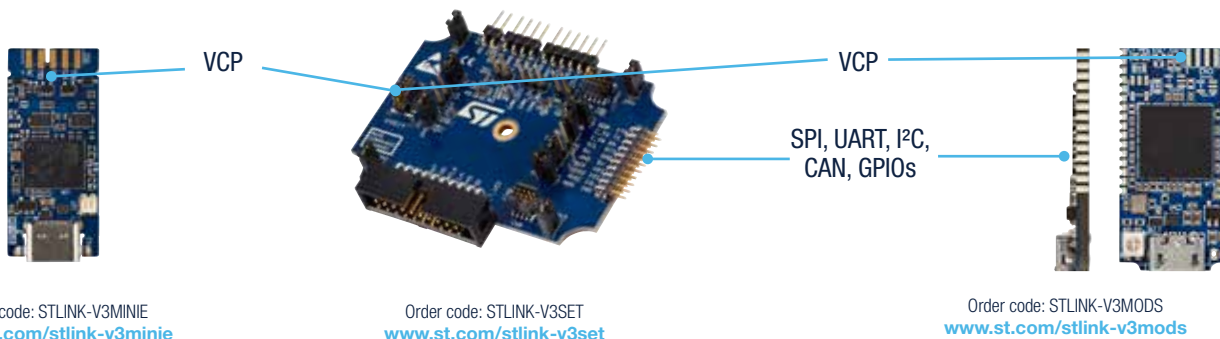
Two form factors with standalone simplicity

The STLINK-V3SET directly supports JTAG/SWD debug interfaces and Virtual COM port with a STDC14 connector coupled with MIPI10, MIPI20, and STDC14 flat cables. The complimentary adapter board adds support for the SWIM interface and provides a multi-path bridge with a variety of communication protocols (SPI, UART, I2C, CAN, and GPIOs) which helps you easily reprogram devices anywhere.

The STLINK-V3MINIE probe is a subset of the V3SET, which provides JTAG/SWD debug interfaces, Virtual COM Port and voltage adaptation, with a compact form factor for an even more affordable price, at just \$11.

The STLINK-V3MODS module allows you to add debug and multi-path bridge on a custom board.

Reference	MCUs supported	Casing	Bridge	Virtual COM Port	Drag-n-Drop	STDC14 connector	Target voltage
STLINK-V3SET	STM32 + STM8	•	•	•	•	•	3.3V
STLINK-V3MINIE	STM32	STL file	UART	•	•	•	1.65-3.3V
B-STLINK-V3MODS	STM32		•	•	•		3.3V



Order code: STLINK-V3MINIE
www.st.com/stlink-v3minie

Order code: STLINK-V3SET
www.st.com/stlink-v3set

Order code: STLINK-V3MODS
www.st.com/stlink-v3mods

Software Tools

STM32CubeProgrammer (www.st.com/stm32cubeprog) is an all-in-one multi-OS software tool for programming STM32 mcus/mpus.

- easy-to-use and efficient environment for reading, writing and verifying device memory through both the debug interface (JTAG/SWD) and the bootloader interface (SPI/UART/I2C/USB).
- wide range of features to program the internal memories (such as Flash, RAM, and OTP) and external memories of STM32 microcontrollers and microprocessors.
- allows option programming and upload, programming content verification, and STM32 device programming automation through scripting.
- includes the STM32 Trusted Package Creator tool to perform secure firmware installation using the STM32HSM.

STM32CubeProgrammer is delivered with GUI (graphical user interface) and CLI (command-line interface) versions.



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