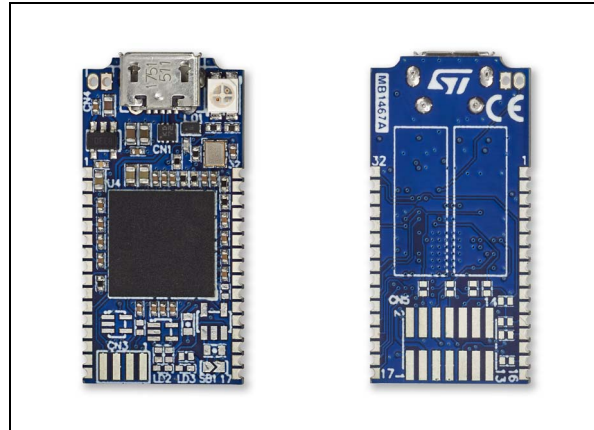


STLINK-V3MODS mini debugger and programmer for STM32 microcontrollers

Data brief

Features

- Modular probe with small size: approximately 15 x 30 mm
- Direct-to-PCB implementation by 2 x 16-pin 1.27 mm edge castellated vias, with all signals available in required minimum PCB surface
- Self-powered through a USB connector (Micro-B)
- USB 2.0 high-speed compatible interface
- Direct firmware update support (DFU)
- JTAG / serial wire debugging (SWD) specific features:
 - 3 V to 3.6 V application voltage support and 5 V tolerant inputs
 - JTAG communication support
 - SWD and serial wire viewer (SWV) communication support
- Virtual COM port (VCP) specific features:
 - 3 V to 3.6 V application voltage support on the UART interface and 5 V tolerant inputs
 - VCP frequency up to 15 MHz
- Multi-path bridge USB to SPI/UART/I²C/CAN/GPIOs specific features:
 - 3 V to 3.6 V application voltage support and 5 V tolerant inputs
- Drag-and-drop Flash programming
- Two color LEDs: communication, power



Pictures are not contractual.

Description

The STLINK-V3MODS is a small size debugging and programming probe for STM32 microcontrollers.

The JTAG/SWD interfaces are used to communicate with any STM32 microcontroller located on an application board.

The STLINK-V3MODS also provides a Virtual COM port interface enabling the host PC to communicate with the target microcontroller through one UART, and bridge interfaces (SPI, I²C, CAN, GPIOs) simplifying for instance the field programming through bootloader.

The STLINK-V3MODS is ready to be embedded in a master application and can be directly soldered on the PCB motherboard.

General information

The STLINK-V3MODS embeds an STM32 32-bit microcontroller based on the Arm^{®(a)} Cortex[®]-M processor.



System requirements

- Windows[®] OS (7, 8 and 10), Linux[®] 64-bit, or macOS^{®(b)}
- USB Type-A to Micro-B cable

Development toolchains

- Keil[®] MDK-ARM^(c)
- IAR[™] EWARM^(c)
- GCC-based IDEs

Ordering information

To order the STLINK-V3MODS, refer to [Table 1](#).

Table 1. Ordering information

Order code	Description
STLINK-V3MODS	STLINK-V3 modular in-circuit debugger and programmer for STM32 microcontrollers

a. Arm is a registered trademark of Arm Limited (or its subsidiaries) in the US and or elsewhere.

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

c. On Windows[®] only.

Revision history

Table 2. Document revision history

Date	Revision	Changes
20-Dec-2018	1	Initial version

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