

DIVELIT M-KIT

Product overview:

The M-. is a universal programming and debugging tool designed primarily for embedded system developers. It enables easy and fast interaction with the most widely used communication buses, such as UART and RS485. It features a fully compatible USB 2.0 interface with two outputs, allowing data communication with advanced devices and providing power delivery (up to 5 W) thanks to its higher power limit.

A key feature of the device is the integrated ST-Link V3, which offers all its benefits, including high-speed programming and debugging in SWD and JTAG modes, with support for SWV console output.

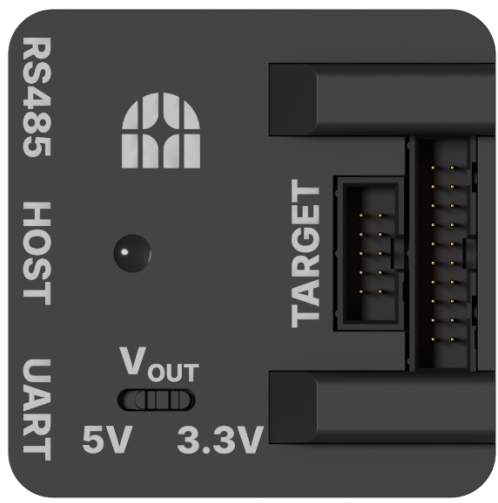
Key Features:

- Single USB-C input interface
 - Only one port for full device
 - USB 2.0 backwards compatibility¹⁾
- Application connectivity
 - Low application current drain
 - Simple and fast setup
- ST-Link V3 in-circuit debugger/programmer
 - SWD and serial wire viewer (SWV) communication support
 - JTAG support
 - 1.65 V to 3.6 V application voltage support
 - Standard ARM JTAG 20pin + ARM JTAG 10pin
- 5 V / 3.3 V JTAG voltage output availability
- UART communication interface
 - VirtualCOM serial interface for easy application debug
 - Application voltage levels
- RS485 interface
 - Short circuit protection
 - Over-current / over-voltage protection
 - 120 Ω termination resistor available
 - Up to 1 M baud rate
- USB HUB
 - Application ready USB 2.0 interface
 - Two-port USB output sockets
 - Battery charging availability¹⁾

1) Limitations apply. If the USB 2.0 interface is used or a 5V 3A power input is unavailable, the output current will be limited by the master device (PC, laptop, etc.).

Table 1: M-KIT pinout description

RS485 interface	1	2	3
A	RS485 A	GND	RS485 B
B	3.3 V	GND	5.0 V
	100mA		100mA
USB-C input interface			
UART interface	1	2	3
A	UART TX	GND	UART RX
B	3.3 V	GND	5.0 V
	100mA		100mA



USB 2.0 socket 5V 1A HighSpeed availability	
ARM 10pin connector	ARM 20pin connector
USB 2.0 socket 5V 1A HighSpeed availability	

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