Features

- 5 V power supplied by a USB connector
- USB 2.0 full-speed-compatible interface
- USB standard A to Mini- B cable
- SWIM specific features
  - 1.65 V to 5.5 V application voltage supported on SWIM interface
  - SWIM low-speed and high-speed modes supported
  - SWIM programming speed rate: 9.7 Kbytes/s in low speed and 12.8 Kbytes/s in high speed
  - SWIM cable for connection to the application via an ERNI standard vertical connector (ref: 284697 or 214017) or horizontal connector (ref: 214012)
  - SWIM cable for connection to the application via a pin header or a 2.54 mm pitch connector
- JTAG/serial wire debugging (SWD) specific features:
  - 1.65 V to 3.6 V application voltage supported on the JTAG/SWD interface and 5 V tolerant inputs
  - JTAG cable for connection to a standard JTAG 20-pin pitch 2.54 mm connector
  - JTAG supported
  - SWD and serial wire viewer (SWV) communication supported
- Direct firmware update feature supported (DFU)
- Status LED which blinks during communication with the PC
- Operating temperature 0 to 50 °C
- 1000 Vrms high isolation voltage (ST-LINK/V2-ISOL only)

1. The first figure at the top shows the ST-LINK/V2-ISOL, while the second figure shows the ST-LINK/V2.
Description

The ST-LINK/V2 is an in-circuit debugger and programmer for the STM8 and STM32 microcontroller families. The single wire interface module (SWIM) and JTAG/serial wire debugging (SWD) interfaces are used to communicate with any STM8 or STM32 microcontroller located on an application board.

In addition to provide the same functionalities as the ST-LINK/V2, the ST-LINK/V2-ISOL features digital isolation between the PC and the target application board. It also withstands voltages of up to 1000 V_{rms}.

STM8 applications use the USB full-speed interface to communicate with the ST Visual Develop (STVD) or ST Visual Program (STVP) software.

STM32 applications use the USB full-speed interface to communicate with Atollic®, IAR™, Keil® or TASKING integrated development environments.
# Revision history

<table>
<thead>
<tr>
<th>Date</th>
<th>Revision</th>
<th>Changes</th>
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<tbody>
<tr>
<td>21-Apr-2011</td>
<td>1</td>
<td>Initial release.</td>
</tr>
<tr>
<td>07-May-2012</td>
<td>2</td>
<td>Added SWD to JTAG connection features.</td>
</tr>
<tr>
<td>14-Sep-2012</td>
<td>3</td>
<td>Added ST-LINK/V2-ISOL.</td>
</tr>
<tr>
<td>24-Mar-2016</td>
<td>4</td>
<td>Updated $V_{rms}$ value in <em>Features</em> and <em>Description</em>.</td>
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Mouser Electronics

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STMicroelectronics:

ST-LINK/V2    ST-LINK/V2-ISOL