STLINK-V3MINI mini debugger/programmer for STM32

Features
- Stand-alone probe
- Approximately 15 x 30 mm high-density integration PCB
- Delivered with 1.27 mm pitch STDC14 debug connector and STDC14 to STDC14 flat cable
- 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
- Drag-and-drop Flash programming
- Two color LEDs: communication, power
- Includes STDC14 signals protection

Description
The STLINK-V3MINI is a stand-alone debugging and programming mini probe for STM32 microcontrollers.

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

The STLINK-V3MINI also provides a Virtual COM port interface allowing the host PC to communicate with the target microcontroller through one UART.

The STLINK-V3MINI is a portable version, easy-to-use debugger/programmer including STDC14 interface with its flat cable.
General information

The STLINK-V3MINI 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-V3MINI, refer to Table 1.

Table 1. Ordering information

<table>
<thead>
<tr>
<th>Order code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>STLINK-V3MINI</td>
<td>STLINK-V3 in-circuit debugger and programmer for STM32 (STDC14 connector)</td>
</tr>
</tbody>
</table>

---

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

<table>
<thead>
<tr>
<th>Date</th>
<th>Revision</th>
<th>Changes</th>
</tr>
</thead>
<tbody>
<tr>
<td>26-Mar-2019</td>
<td>1</td>
<td>Initial release.</td>
</tr>
</tbody>
</table>
IMPORTANT NOTICE – PLEASE READ CAREFULLY

STMicroelectronics NV and its subsidiaries (“ST”) reserve the right to make changes, corrections, enhancements, modifications, and improvements to ST products and/or to this document at any time without notice. Purchasers should obtain the latest relevant information on ST products before placing orders. ST products are sold pursuant to ST’s terms and conditions of sale in place at the time of order acknowledgement.

Purchasers are solely responsible for the choice, selection, and use of ST products and ST assumes no liability for application assistance or the design of Purchasers’ products.

No license, express or implied, to any intellectual property right is granted by ST herein.

Resale of ST products with provisions different from the information set forth herein shall void any warranty granted by ST for such product.

ST and the ST logo are trademarks of ST. For additional information about ST trademarks, please refer to www.st.com/trademarks. All other product or service names are the property of their respective owners.

Information in this document supersedes and replaces information previously supplied in any prior versions of this document.

© 2019 STMicroelectronics – All rights reserved