STM32L-DISCOVERY
32L152CDISCOVERY

Discovery kits for STM32L151/152 line

Data brief

Features

- STM32L152RBT6 (128 KB Flash memory, 16 KB RAM, 4 KB EEPROM) or STM32L152RCT6 (256 KB Flash memory, 32 KB RAM, 8 KB EEPROM) microcontroller in an LQFP64 package
- On-board ST-LINK/V2 with selection mode switch to use the kit as a standalone ST-LINK/V2 (with SWD connector for programming and debugging)
- Board power supply: through USB bus or from an external 3.3 or 5 V supply voltage
- External application power supply: 3 V and 5 V
- \( I_{DD} \) current measurement
- LCD
  - DIP28 package
  - 24 segments, 4 commons
- Four LEDs:
  - LD1 (red/green) for USB communication
  - LD2 (red) for 3.3 V power-on
  - Two user LEDs, LD3 (green) and LD4 (blue)
- Two pushbuttons (user and reset)
- One linear touch sensor or four touchkeys
- Extension header for LQFP64 I/Os for quick connection to prototyping board and easy probing
- Comprehensive free software including a variety of examples, part of STSW-STM32072 package

Description

The STM32L-DISCOVERY and 32L152CDISCOVERY kits help you to discover the STM32L ultra low power features and to develop and share your applications.

Table 1. Device summary

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<th>Part number</th>
<th>Order code</th>
<th>Description</th>
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<td>STM32L-DISCOVERY</td>
<td>STM32L-DISCOVERY</td>
<td>Discovery kit based on STM32L152 RBT6</td>
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<td>32L152CDISCOVERY</td>
<td>STM32L152C-DISCO</td>
<td>Discovery kit based on STM32L152 RCT6</td>
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1. STM32L-DISCOVERY is replaced by STM32L152C-DISCO.
System requirements

- Windows PC (XP, 7, 8)
- USB type A to Mini-B USB cable.

Development toolchain

- IAR EWARM (IAR Embedded Workbench®)
- Keil® MDK-ARM™
- GCC-based IDE (ARM® Atollic® TrueSTUDIO®,...)

Demonstration software

The demonstration software is preloaded in the board Flash memory. It uses the built-in $I_{DD}$ measurement and touch sensing feature of the STM32L-DISCOVERY or the 32L152CDISCOVERY to automatically measure and display on the LCD the microcontroller consumption in run and low-power modes.

The latest versions of the demonstration source code and associated documentation can be downloaded from www.st.com/stm32l1-discovery.

Revision history

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<tr>
<th>Date</th>
<th>Revision</th>
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<tr>
<td>29-April-2011</td>
<td>1</td>
<td>Initial release.</td>
</tr>
<tr>
<td>11-May-2011</td>
<td>2</td>
<td>Replaced slider by linear touch sensor and touch key by touchkey.</td>
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<tr>
<td>16-Apr-2013</td>
<td>3</td>
<td>Added 32L152CDISCOVERY discovery kit and related features.</td>
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<tr>
<td>29-Sep-2014</td>
<td>4</td>
<td>Updated Section : Features to introduce STSW-STM32072. Updated Section : System requirements and Section : Development toolchain.</td>
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