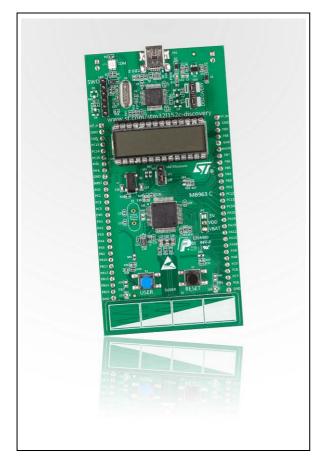


STM32L-DISCOVERY 32L152CDISCOVERY

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

Description

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

They are based on an STM32L152RBT6 and an STM32L152RCT6, respectively; and include an ST-Link/V2 embedded debugging tool interface, an LCD (24 segments, 4 commons), LEDs, pushbuttons, a linear touch sensor or touchkeys.

Table 1. Device summarv

Part number	Order code	Description
STM32L- DISCOVERY	STM32L- DISCOVERY ⁽¹⁾	Discovery kit based on STM32L152 RBT6
32L152CDISCOVERY	STM32L152C- DISCO	Discovery kit based on STM32L152 RCT6

1. STM32L-DISCOVERY is replaced by STM32L152C-DISCO.

April 2013

DocID018775 Rev 3

For further information contact your local STMicroelectronics sales office.

1/3

1 System requirements

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

2 Development toolchain

- Altium TASKING™ VX-Toolset
- Atollic TrueSTUDIO[®]
- IAR EWARM
- Keil™ MDK-ARM

3 Demonstration software

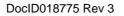
The demonstration software is preloaded in the board Flash memory. It uses the built-in I_{DD} measurement and touch sensing feature of the STM32L-DISCOVERY or the 32L152CDISCOVERY to automatically measure and display on the LCD the microcontroller consumption in run and low-power modes.

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

4 Revision history

Date	Revision	Changes
29-April-2011	1	Initial release.
11-May-2011	2	Replaced slider by linear touch sensor and touch key by touchkey.
16-Apr-2013	3	Added 32L152CDISCOVERY discovery kit and related features.

Table 2. Document revision history





Please Read Carefully:

Information in this document is provided solely in connection with ST products. STMicroelectronics NV and its subsidiaries ("ST") reserve the right to make changes, corrections, modifications or improvements, to this document, and the products and services described herein at any time, without notice.

All ST products are sold pursuant to ST's terms and conditions of sale.

Purchasers are solely responsible for the choice, selection and use of the ST products and services described herein, and ST assumes no liability whatsoever relating to the choice, selection or use of the ST products and services described herein.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted under this document. If any part of this document refers to any third party products or services it shall not be deemed a license grant by ST for the use of such third party products or services, or any intellectual property contained therein or considered as a warranty covering the use in any manner whatsoever of such third party products or services or any intellectual property contained therein.

UNLESS OTHERWISE SET FORTH IN ST'S TERMS AND CONDITIONS OF SALE ST DISCLAIMS ANY EXPRESS OR IMPLIED WARRANTY WITH RESPECT TO THE USE AND/OR SALE OF ST PRODUCTS INCLUDING WITHOUT LIMITATION IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE (AND THEIR EQUIVALENTS UNDER THE LAWS OF ANY JURISDICTION), OR INFRINGEMENT OF ANY PATENT, COPYRIGHT OR OTHER INTELLECTUAL PROPERTY RIGHT.

ST PRODUCTS ARE NOT AUTHORIZED FOR USE IN WEAPONS. NOR ARE ST PRODUCTS DESIGNED OR AUTHORIZED FOR USE IN: (A) SAFETY CRITICAL APPLICATIONS SUCH AS LIFE SUPPORTING, ACTIVE IMPLANTED DEVICES OR SYSTEMS WITH PRODUCT FUNCTIONAL SAFETY REQUIREMENTS; (B) AERONAUTIC APPLICATIONS; (C) AUTOMOTIVE APPLICATIONS OR ENVIRONMENTS, AND/OR (D) AEROSPACE APPLICATIONS OR ENVIRONMENTS. WHERE ST PRODUCTS ARE NOT DESIGNED FOR SUCH USE, THE PURCHASER SHALL USE PRODUCTS AT PURCHASER'S SOLE RISK, EVEN IF ST HAS BEEN INFORMED IN WRITING OF SUCH USAGE, UNLESS A PRODUCT IS EXPRESSLY DESIGNATED BY ST AS BEING INTENDED FOR "AUTOMOTIVE, AUTOMOTIVE SAFETY OR MEDICAL" INDUSTRY DOMAINS ACCORDING TO ST PRODUCT DESIGN SPECIFICATIONS. PRODUCTS FORMALLY ESCC, QML OR JAN QUALIFIED ARE DEEMED SUITABLE FOR USE IN AEROSPACE BY THE CORRESPONDING GOVERNMENTAL AGENCY.

Resale of ST products with provisions different from the statements and/or technical features set forth in this document shall immediately void any warranty granted by ST for the ST product or service described herein and shall not create or extend in any manner whatsoever, any liability of ST.

ST and the ST logo are trademarks or registered trademarks of ST in various countries. Information in this document supersedes and replaces all information previously supplied. The ST logo is a registered trademark of STMicroelectronics. All other names are the property of their respective owners.

© 2013 STMicroelectronics - All rights reserved

STMicroelectronics group of companies

Australia - Belgium - Brazil - Canada - China - Czech Republic - Finland - France - Germany - Hong Kong - India - Israel - Italy - Japan -Malaysia - Malta - Morocco - Philippines - Singapore - Spain - Sweden - Switzerland - United Kingdom - United States of America

www.st.com



DocID018775 Rev 3