



# STM32L-DISCOVERY

## STM32L ultralow power discovery board

Data brief

### Features

- STM32L152RBT6 microcontroller featuring 128 KB Flash, 16 KB RAM, 4 KB EEPROM, 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 helps you to discover the STM32L ultralow power features and to develop and share your applications.

It is based on an STM32L152RBT6 and includes 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 summary

Order code	Description
STM32L-DISCOVERY	STM32L ultralow power discovery board

## 1 System requirements

- Windows PC (2000, 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<sub>DD</sub> measurement and touch sensing feature of the STM32L-DISCOVERY 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/stm32l-discovery](http://www.st.com/stm32l-discovery).

## 4 Revision history

Table 2. Document 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.

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