



# STM8L-DISCOVERY

## STM8L ultralow power Discovery

Data brief

### Features

- STM8L152C6T6 microcontroller, 32 KB Flash, 2 KB RAM, 1 KB EEPROM in 48-pin LQFP
- On-board ST-Link with selection mode switch to use the kit as a stand-alone ST-Link (with SWIM connector for programming and debugging)
- Two red LEDs; LD1 for USB communication, LD2 for 3.3 V power on
- Designed to be powered by USB or an external supply of 5 V or 3.3 V
- Can supply target application with 5 V and 3 V
- Two user LEDs, LD3 and LD4 (green and blue)
- Two push buttons (User and Reset)
- $I_{DD}$  current measurement
- LCD 28-pin DIP (24 segments, 4 commons)
- Extension header for all QFP48 I/Os for quick connection to prototyping board for easy probing

### Description

The STM8L-DISCOVERY helps you to discover the STM8L ultralow power features and to develop and share your applications. It is based on an STM8L152C6T6 and includes an ST-Link embedded debug tool interface, LCD (24 segments, 4 commons), LEDs and push buttons.

Table 1. Device summary

| Order code      | Description                    |
|-----------------|--------------------------------|
| STM8L-DISCOVERY | STM8L ultralow power Discovery |



## 1 System requirements

- Windows PC (2000, XP, Vista)
- A/Mini-B USB cable

## 2 Development toolchain

- IAR, Embedded Workbench® for STM8
- STMicroelectronics, ST Visual Develop (STVD)

## 3 Demonstration software

Demonstration software is preloaded in the board's Flash memory. This demonstration uses the built-in IDD measurement feature of the STM8L-DISCOVERY to automatically measure and display on the LCD the consumption of the MCU in run and low power modes.

The latest versions of this demonstration source code and associated documentation can be downloaded from [www.st.com/stm8l-discovery](http://www.st.com/stm8l-discovery).

## 4 Revision history

**Table 2. Document revision history**

| Date         | Revision | Changes          |
|--------------|----------|------------------|
| 17-Sept-2010 | 1        | Initial release. |

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