STM32F3DISCOVERY

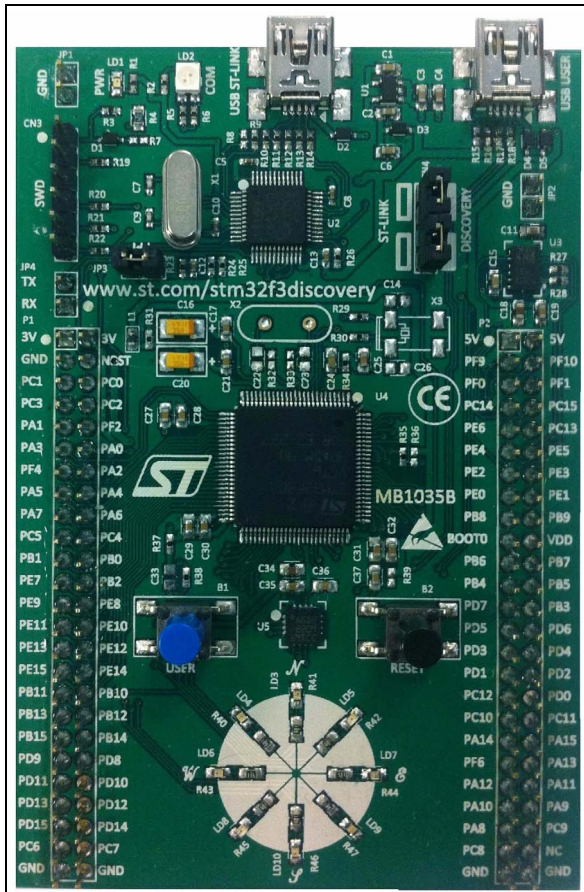## Discovery kit for STM32F303xx microcontrollers

- L3GD20, ST MEMS motion sensor, 3-axis digital output gyroscope
- LSM303DLHC, ST MEMS system-in-package featuring a 3D digital linear acceleration sensor and a 3D digital magnetic sensor
- Ten LEDs:
  - LD1 (red) for 3.3 V power on
  - LD2 (red/green) for USB communication
  - Eight user LEDS, LD3/10 (red), LD4/9 (blue), LD5/8 (orange) and LD6/7 (green)
- Two pushbuttons (user and reset)
- USB USER with Mini-B connector
- Extension header for all LQFP100 I/Os for quick connection to prototyping board and easy probing

Description

The STM32F3DISCOVERY helps you to discover the STM32 F3 series Cortex-M4 mixed-signals features and to develop your applications easily. It includes everything required for beginners and experienced users to get started quickly.

Based on the STM32F303VCT6, it includes an ST-LINK/V2 embedded debug tool, accelerometer, gyroscope and e-compass ST MEMS, USB connection, LEDs and pushbuttons.

The STM32F3DISCOVERY discovery board does not support STM32F313xx MCUs (1.65 V to 1.95 V power supply).

A large number of free ready-to-run application firmware examples are available on www.st.com/stm32f3discovery to support quick evaluation and development.

Features

- STM32F303VCT6 microcontroller featuring 256 KB Flash, 48 KB RAM in an LQFP100 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 V or 5 V supply voltage
- External application power supply: 3 V and 5 V

System requirements

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

Development toolchains

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

Demonstration software

The demonstration software is preloaded in the board Flash memory. It uses the USER pushbutton to switch the operation of the 8 LEDs into different modes from simple blinking mode, to indicating the gyroscope movements, or indicating the direction of the north pole.

The latest versions of the demonstration source code and associated documentation can be downloaded from www.st.com/stm32f3discovery.

Ordering information

To order the discovery kit for STM32F303xx microcontrollers, use the STM32F3DISCOVERY order code.

Revision history

Table 1. Document revision history

Date	Revision	Changes
03-Sep-2012	1	Initial release.
11-Mar-2013	2	Modified title and added *Ordering information*. Added information on STM32F313xx MCUs in *Description*.

Please Read Carefully: