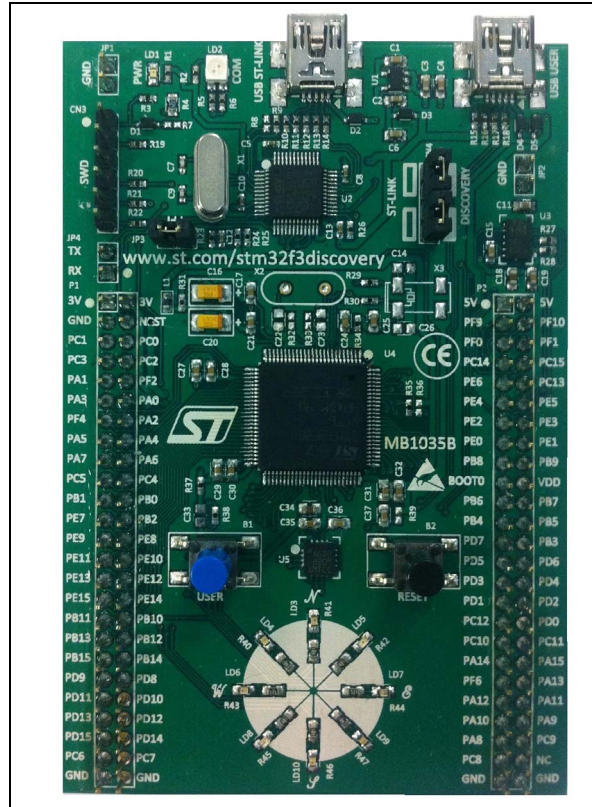


Features

- STM32F303VCT6 microcontroller featuring 256-Kbyte Flash memory, 48-Kbyte RAM in an LQFP100 package
- On-board ST-LINK/V2 for PCB version A or B or ST-LINK/V2-B for PCB version C and newer
- USB ST-LINK functions:
 - Debug port
 - Virtual COM port with ST-LINK/V2-B only
 - Mass storage with ST-LINK/2-B only
- 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
- 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 push-buttons (user and reset)
- USB USER with Mini-B connector
- Extension header for all LQFP100 I/Os for quick connection to prototype board and easy probing
- Comprehensive free software including a variety of examples, part of STM32CubeF3 package or STSW-STM32118 for legacy Standard Library usage



1. Picture not contractual.

Description

The STM32F3DISCOVERY allows users to easily develop applications with the STM32F3 Series based on ARM[®] Cortex[®]-M4 mixed-signal MCU. It includes everything required for beginners and experienced users to get started quickly.

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

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

System requirements

- Windows® OS (XP, 7, 8)
- USB Type-A to Mini-B cable

Development toolchains

- IAR® EWARM (IAR Embedded Workbench®)
- Keil® MDK-ARM™
- GCC-based IDEs (free AC6: SW4STM32, Atollic® TrueSTUDIO®,...)

Demonstration software

The demonstration software is preloaded in the board Flash memory. It uses the USER push-button to switch the operation of the eight LEDs into different modes from simple blinking mode, to indicate the gyroscope movements, or the direction of the North Pole. The latest version of the demonstration source code together with the associated documentation can be downloaded from the www.st.com/stm32f3discovery webpage.

Ordering information

To order the Discovery kit for the STM32F303 line of microcontrollers, refer to [Table 1](#).

Table 1. List of the order codes

Order code	ST-LINK version
STM32F3DISCOVERY	ST-LINK/V2 for PCB version A or B
	ST-LINK/V2-B for PCB version C and newer

Revision history

Table 2. Document revision history

Date	Revision	Changes
03-Sep-2012	1	Initial release.
11-Mar-2013	2	Modified title and added <i>Ordering information</i> . Added information on STM32F313xx MCUs in <i>Description</i> .
24-Oct-2014	3	Updated features list. Updated <i>Section : Development toolchains</i> .
19-Jul-2016	4	Updated <i>Features</i> list to introduce the information that boards come with ST-LINK/V2 or ST-LINK/V2-B.

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