

Discovery kit for STM32F072xx microcontrollers

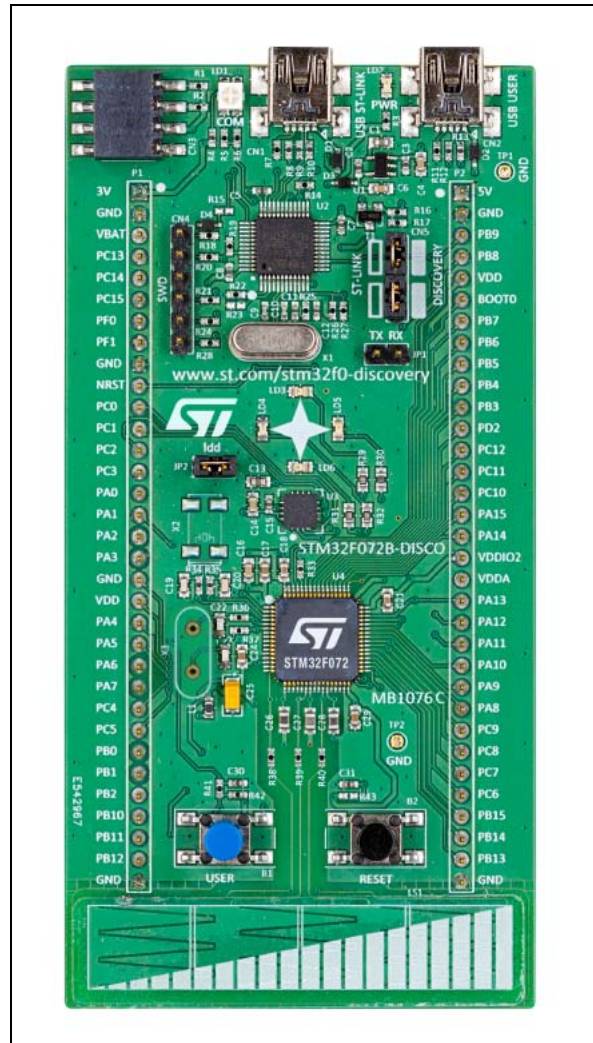
Data brief

Features

- STM32F072RBT6 microcontroller featuring 128 KB of Flash memory, 16 KB of SRAM in an LQFP64 package
- On-board ST-LINK/V2 with 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 an external 5 V supply voltage
- External application power supply: 3 V and 5 V
- L3GD20 ST MEMS motion sensor 3-axis digital output gyroscope
- One linear touch sensor or four touchkeys
- Six LEDs:
 - LD1 (red/green) for USB communication
 - LD2 (red) for 3.3 V power on
 - Four user LEDs: LD3 (orange), LD4 (green), LD5 (red) and LD6 (blue)
- Two push-buttons (user and reset)
- User USB with Mini-B connector
- RF EEPROM daughterboard connector
- Extension header for LQFP64 I/Os for quick connection to a prototyping board and easy probing
- Comprehensive free software including a variety of examples, part of STM32CubeF0 or STM32SnippetsL0 packages or STSW-STM32139 for legacy Standard Libraries usage

Description

The STM32F072 Discovery kit helps you to discover the STM32F072: discover the STM32F072 which has the full set of features available in the STM32F0 series and to develop your applications easily. It includes everything required for beginners and experienced users to get started quickly.



Based on the STM32F072RBT6, it includes an ST-LINK/V2 embedded debug tool interface, an ST MEMS gyroscope, LEDs, push-buttons, Linear touch sensor, touchkeys, RF EEPROM connector and a USB mini-B connector.

System requirements

- Windows PC (XP, 7, 8)
- USB type A to Mini-B cable.

Development toolchains

- IAR EWARM (IAR Embedded Workbench®)
- Keil® MDK-ARM™
- GCC-based IDE (ARM® Atollic® TrueSTUDIO®,...)

Demonstration software

The demonstration software is preloaded in the board Flash memory.

The latest versions of the demonstration source code and associated documentation can be downloaded from www.st.com/stm32f0-discovery.

Ordering information

To order the Discovery kit for STM32F072 microcontrollers use the STM32F072B-DISCO order code.

Revision history

Table 1. Document revision history

Date	Revision	Changes
27-Dec-2013	1	Initial release.

Table 1. Document revision history

Date	Revision	Changes
11-Apr-2014	2	Added new board picture
29-Sep-2014	3	Updated Section : Features and Section : Description to introduce STM32CubeF0, STM32SnippetsL0 and STSW-STM32139. Updated L3GD20 feature. Updated Section : System requirements and Section : Development toolchains . Changed link to web page in Section : Demonstration software .

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