# 32F072BDISCOVERY

## Discovery kit for STM32F072 microcontrollers

**Data brief**

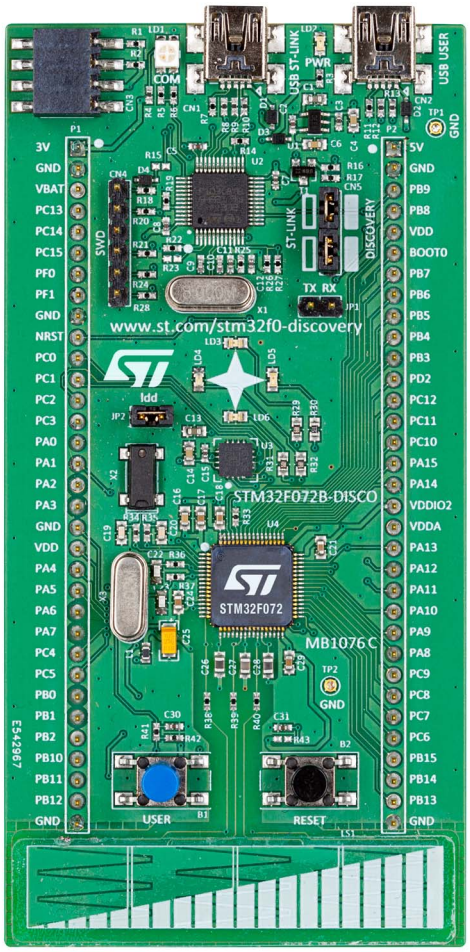
## Features

- 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 Touch Keys
- 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 pushbuttons (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

## 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, ST MEMS Gyroscope, LEDs, Pushbuttons, Linear Touch Sensor, Touch keys, RF EEprom connector and a USB mini-B connector.




A large number of free ready-to-run application firmware examples are available on from ST to support quick evaluation and development.

# 1 System requirements

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

# 2 Development toolchains

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

# 3 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.

# 4 Ordering information

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

# 5 Revision history

**Table 1. Document revision history**

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

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