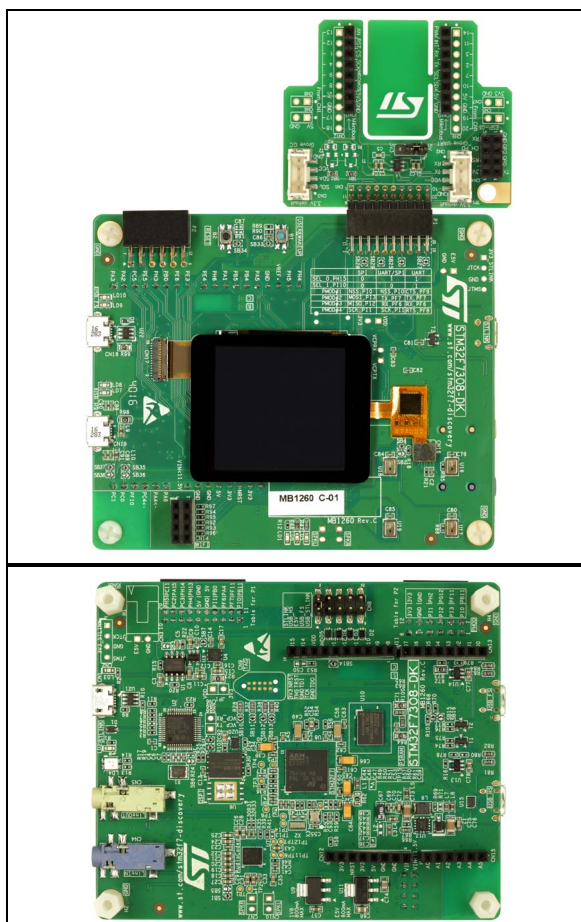


### Features

- STM32F73018K6 Arm® Cortex®-M7 core-based microcontroller featuring 64 Kbytes of Flash memory and 176+16 Kbytes of RAM, in a BGA176 package
- TFT LCD 240x240 pixels with touch panel
- USB OTG HS FS
- SAI audio codec
- 4 ST-MEMS microphones
- 512-Mbit Quad-SPI Flash memory
- 8-Mbit external PSRAM
- 1 user and reset push-button
- Board connectors:
  - USB with Micro-AB
  - Audio jack for external speakers and microphone
- Board expansion connectors:
  - Arduino™ Uno V3
  - ESP-01 Wi-Fi® module connector
  - Pmod™
  - STMod+
- On-board ST-LINK/V2-1 supporting USB re-enumeration capability: mass storage, Virtual COM port, debug port
- Flexible power-supply options: ST-LINK USB  $V_{BUS}$  or external sources
- Power supply output for external applications: 3.3 V or 5 V
- Fanout board (included inside the board package) compatible with MikroElektronika Click boards, ESP-01 and Seeed Studio™ Grove modules. Provision for headers for direct breadboard plug-in.
- Comprehensive free software including a variety of examples available with the STM32Cube™ MCU Package



From top to bottom: top view of the STM32F7308-DK Discovery kit with the Fanout board connected and bottom view of the STM32F7308-DK Discovery kit without the Fanout board. Pictures are not contractual.

- Support of a wide choice of Integrated Development Environments (IDEs) including IAR™, Keil®, GCC-based IDEs

## Description

The STM32F7308-DK Discovery kit allows users to develop applications with the microcontrollers of the STM32F7 Series, based on the Arm<sup>®</sup> Cortex<sup>®</sup>-M7 core.

The STM32F7308-DK Discovery kit enables a wide diversity of applications, taking benefit from audio, multi-sensor support, graphics, security, video, and high-speed connectivity features.

The Pmod<sup>™</sup>, STMod+ and Arduino<sup>™</sup> Uno V3 connectivity support provides unlimited expansion capabilities with a large choice of specialized add-on boards.

## General information

The STM32F7308-DK Discovery kit features an STM32F7 Series microcontroller based on the Arm<sup>®(a)</sup> Cortex<sup>®</sup>-M7 core.



## System requirements

- Windows<sup>®</sup> OS (7, 8 and 10), Linux<sup>®</sup> 64-bit or macOS<sup>®(b)</sup>
- USB Type-A to Micro-B cable

## Development toolchains

- Keil<sup>®</sup>: MDK-ARM<sup>(c)</sup>
- IAR<sup>™</sup>: EWARM<sup>(c)</sup>
- GCC-based IDEs

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a. Arm is a registered trademark of Arm Limited (or its subsidiaries) in the US and or elsewhere.

b. macOS<sup>®</sup> is a trademark of Apple Inc. registered in the U.S. and other countries.

c. On Windows<sup>®</sup> only.

## Demonstration software

The demonstration software, included in the STM32Cube MCU Package, is preloaded in the STM32 Flash memory for easy demonstration of the device peripherals in standalone mode. The latest versions of the demonstration source code and associated documentation can be downloaded from the [www.st.com/stm32f7-discovery](http://www.st.com/stm32f7-discovery) webpage.

## Ordering information

To order the STM32F7308-DK Discovery kit, refer to [Table 1](#):

**Table 1. Ordering information**

Order code	Target STM32
STM32F7308-DK	STM32F730I8K6

## Revision history

**Table 2. Document revision history**

Date	Revision	Changes
18-Oct-2018	1	Initial release.

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