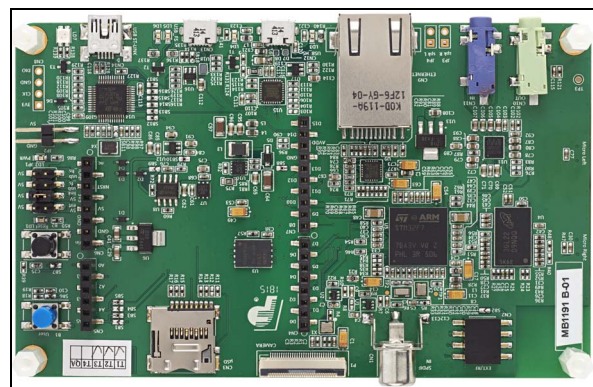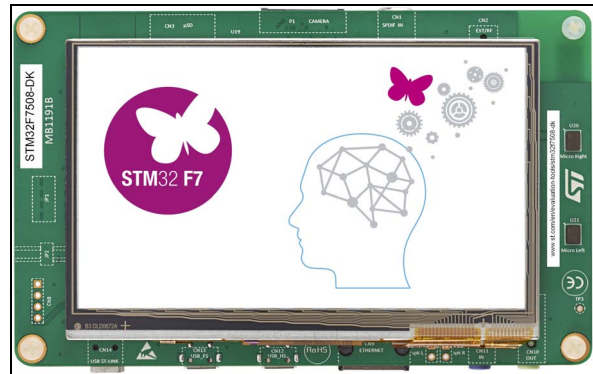# STM32F7508-DK

Discovery kit with STM32F750N8 MCU

Features

- STM32F750N8H6 microcontroller featuring 64 Kbytes of Flash memory and 340 Kbytes of RAM, in BGA216 package
- 4.3-inch 480x272 color LCD-TFT with capacitive touch screen
- Ethernet connector compliant with IEEE-802.3-2002
- USB OTG HS FS
- SAI audio codec
- 2 ST-MEMS digital microphones
- 128-Mbit Quad-SPI Flash memory
- 128-Mbit SDRAM (64 Mbits accessible)
- 1 user and reset push-button
- Board connectors:
    - Camera 8 bit
    - USB with Micro-AB
    - Ethernet RJ45
    - SPDIF RCA input
    - Audio jack for external speakers and microphone
    - microSD™ card
- Board expansion connectors:
    - Arduino™ Uno V3
    - RF-EEPROM daughterboard
- On-board ST-LINK/V2-1 supporting USB re-enumeration capability: mass storage, Virtual COM port, and 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
- Comprehensive free software including a variety of examples, part of STM32Cube™ MCU Package
- Support of by a wide choice of Integrated Development Environments (IDEs) including IAR™, Keil®, GCC-based IDEs

Pictures are not contractual.

Description

The STM32F7 Discovery kit allows users to develop and share applications with the STM32F7 Series microcontrollers based on the Arm® Cortex®-M7 core.

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

The Arduino™ connectivity support provides unlimited expansion capabilities with a large choice of specialized add-on boards.

General information

The STM32F750N8 Discovery kit features an STM32F7 Series microcontroller based on the Arm[®](a) Cortex[®]-M7 core.

arm

System requirements

- Windows[®] OS (7, 8 and 10), Linux[®] 64-bit or macOS[®](b)
- USB Type-A to Mini-B cable

Development toolchains

- Keil[®]: MDK-ARM[(c)]
- IAR[™]: EWARM[(c)]
- GCC-based IDEs

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/en/evaluation-tools/stm32f7508-dk.html webpage.

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

b. macOS[®] is a trademark of Apple Inc. registered in the U.S. and other countries.

c. On Windows[®] only.

Ordering information

To order the STM32F7508-DK Discovery kit, refer to *Table 1*:

Table 1. Ordering information

Order code	Target STM32
STM32F7508-DK	STM32F750N8H6

Technology partners

MICRON:
- 128-Mbit SDRAM (64 Mbits accessible on the kit), part number MT48LC4M32B2
- 128-Mbit Quad-SPI NOR Flash memory device, part number N25Q128A

ROCKTECH:
- Color display, 4.3-inch LCD-TFT (resolution: 480x272), capacitive touch, part number RK043FN48H-CT672B

Revision history

Table 2. Document revision history

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

IMPORTANT NOTICE – PLEASE READ CAREFULLY