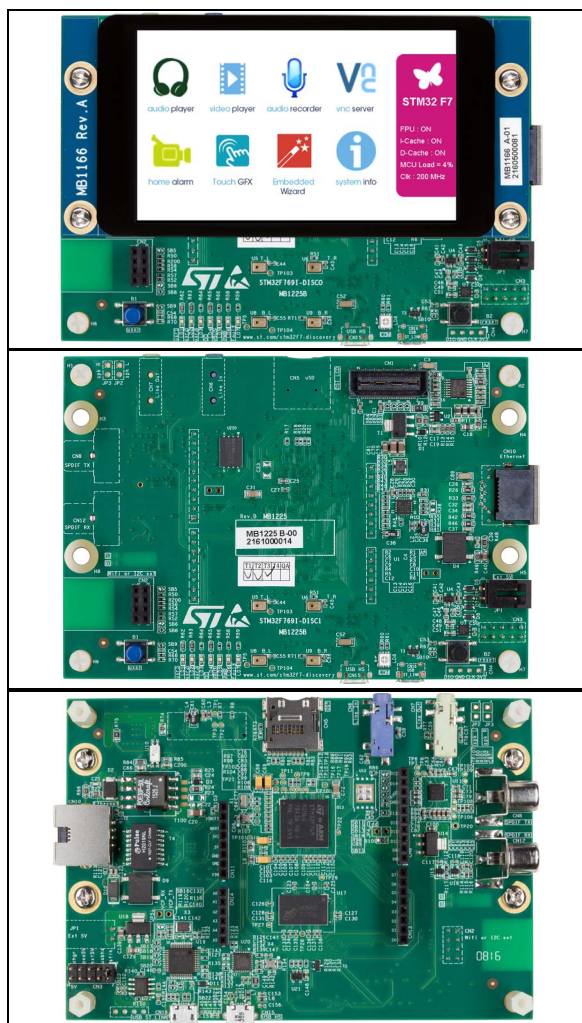


### Features

- STM32F769NIH6 microcontroller featuring 2 Mbytes of Flash memory and 512+16+4 Kbytes of RAM, in BGA216 package
- On-board ST-LINK/V2-1 supporting USB reenumeration capability
- USB ST-LINK functions: virtual COM port, mass storage, debug port
- 4" capacitive touch LCD display with MIPI® DSI connector (on STM32F769I-DISCO only)
- SAI audio codec
- Two audio line jacks, one for input and one for output
- Stereo speaker outputs
- Four ST MEMS microphones on DFSDM inputs
- Two SPDIF RCA input and output connectors
- Two push-buttons (user and reset)
- 512-Mbit Quad-SPI Flash memory
- 128-Mbit SDRAM
- Connector for microSD card
- Wi-Fi or Ext-EEP daughterboard connector
- USB OTG HS with Micro-AB connector
- Ethernet connector compliant with IEEE-802.3-2002
- Five power supply options:
  - ST LINK/V2-1
  - USB HS connector
  - 5 V from RJ45 (Power Over Ethernet)
  - 5 V from Arduino™ or external connector
  - USB charger
- Power Over Ethernet based on IEEE 802.3af (Powered Device, 48 V to 5 V, 3 W)
- Power supply output for external applications: 3.3 V or 5 V
- Arduino™ Uno V3 connectors



1. Pictures are not contractual. From top to bottom: STM32F769I-DISCO top view, STM32F769I-DISCO top view, STM32F769I-DISCO and STM32F769I-DISCO1 bottom view.

- Comprehensive free software including a variety of examples, part of the STM32Cube package
- Supported by a wide choice of integrated development environments

## 1 Description

The STM32F7 discovery kit allows users to develop and share applications with the STM32F7 Series microcontrollers based on the ARM<sup>®</sup> Cortex<sup>®</sup>-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<sup>™</sup> connectivity support provides unlimited expansion capabilities with a large choice of specialized add-on boards.

## 2 System requirements

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

## 3 Development toolchains

- Keil<sup>®</sup>: MDK-ARM<sup>™(a)</sup>
- IAR<sup>™</sup>: EWARM<sup>(a)</sup>
- GCC-based IDEs (free AC6: SW4STM32, Atollic<sup>®</sup> TrueSTUDIO<sup>®(a)</sup>, ...)

## 4 Demonstration software

The demonstration software is preloaded in the STM32F769NIH6 MCU Flash memory. 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.

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a. On Windows only.

## 5 Ordering information

To order the discovery kit with the STM32F769NI MCU, refer to [Table 1](#).

**Table 1. List of the order codes**

Order code	Product package
STM32F769I-DISCO	with LCD display
STM32F769I-DISC1	without LCD display

## 6 Technology partners

**MICRON:**

- 128-Mbit SDRAM, part number MT48LC4M32B2

**MACRONIX:**

- 512-Mbit Quad-SPI NOR Flash memory device, part number MX25L51245G

## 7 Revision history

**Table 2. Document revision history**

Date	Revision	Changes
20-Apr-2016	1	Initial release.
26-Aug-2016	2	Updated the <a href="#">Section 5: Ordering information</a> to introduce the STM32F769I-DISC1 order code.

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