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Features

- STM32H753XIH6 microcontroller with 2 Mbytes of Flash memory and 1 Mbyte of RAM in TFBGA240+25 package
- 5.7" 640x480 TFT color LCD with touch screen
- Ethernet compliant with IEEE-802.3-2002
- USB OTG HS and FS
- I²C compatible serial interface
- RTC with rechargeable backup battery
- SAI Audio DAC
- ST-MEMS digital microphones
- 8-Gbyte (or more) SDIO3.0 interface microSDTM card
- 8Mx32bit SDRAM, 1Mx16bit SRAM and 8Mx16bit NOR Flash
- 1-Gbit Twin Quad-SPI NOR Flash
- Potentiometer
- 4 colored user LEDs
- Reset, wakeup, tamper or key buttons
- Joystick with 4-direction control and selector
- Board connectors
 - Power jack
 - 3 USB with Micro-AB
 - RS-232 communications
 - Ethernet RJ45
 - FD-CAN compliant connection
 - Stereo headset jack including analog microphone input
 - 2 audio jacks for external speakers
 - microSDTM card
 - JTAG/SWD and ETM trace
- Expansion connectors:
 - Extension connectors and memory connectors for daughterboard or wire-wrap board



1. Picture is not contractual.

- Flexible power-supply options: ST-LINK USB V_{BUS} or external sources
- On-board ST-LINK/V2-1 debugger/programmer with USB re-enumeration capability: mass storage, virtual COM port and debug port
- Comprehensive free software libraries and examples available with the STM32Cube package
- Support of a wide choice of Integrated Development Environments (IDEs) including IARTM, Keil[®], GCC-based IDEs

Description

The STM32H753I-EVAL Evaluation board is a high-end development platform for the ARM® Cortex®-M7-based STM32H753XI microcontroller. The STM32H753I-EVAL Evaluation board provides access to all the STM32 peripherals for user applications, and includes an embedded ST-LINK debugger/programmer.

The full range of the hardware features on the STM32H753I-EVAL Evaluation board, helps to evaluate all the peripherals (USB OTG HS and FS, Ethernet, FD-CAN, USART, Audio DAC and ADC, digital microphone, SRAM, SDRAM, NOR Flash, Twin Quad-SPI Flash, microSD™ 3.0 card, 5.7" 640x480 TFT color LCD with touch screen and cryptographic hardware accelerator) and to develop applications.

The expansion connectors provide an easy way to add specialized features, while ETM trace is supported through external probes.

System requirements

- Windows® OS (XP, 7, 8 and 10), Linux® or macOS™
- USB Type-A to Micro-B cable

Development toolchains

- Keil® MDK-ARM^(a)
- IAR™ EWARM^(a)
- GCC-based IDEs including free SW4STM32 from AC6

Demonstration software

The demonstration software is preloaded in the STM32H753XI Flash memory for easy demonstration of the device peripherals in standalone mode. For the latest version of the demonstration source code and the associated documentation, refer to the STM32H753I-EVAL demonstration software available on the www.st.com website.

a. On Windows® only.

Ordering information

To order the STM32H753I-EVAL Evaluation board refer to [Table 1](#).

Table 1. Ordering information

| Order code | Target STM32 |
|-----------------|--------------|
| STM32H753I-EVAL | STM32H753XI |

Revision history

Table 2. Document revision history

| Date | Revision | Changes |
|-------------|----------|------------------|
| 07-Apr-2017 | 1 | Initial version. |

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