Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

Evaluation board with STM32H753XI MCU

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
- I^2C compatible serial interface
- RTC with rechargeable backup battery
- SAI Audio DAC
- ST-MEMS digital microphones
- 8-Gbyte (or more) SDIO3.0 interface microSD™ 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
    - microSD™ card
    - JTAG/SWD and ETM trace
- Expansion connectors:
    - Extension connectors and memory connectors for daughterboard or wire-wrap board
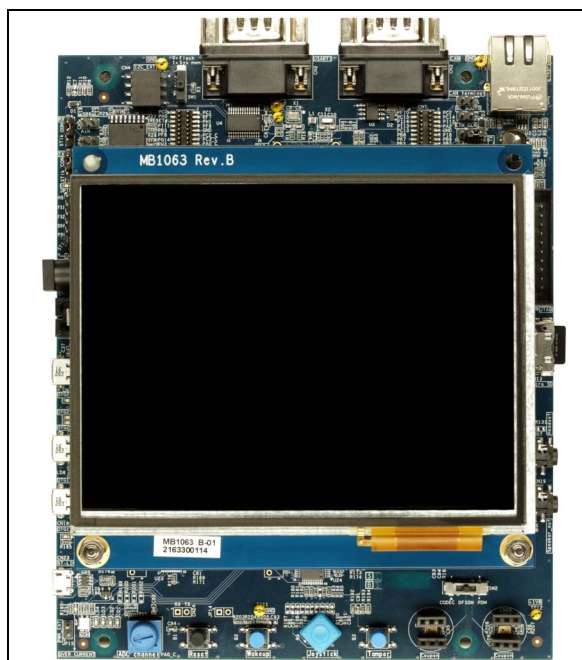
1. Picture is not contractual.

- 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 IAR™, 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.

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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.

IMPORTANT NOTICE – PLEASE READ CAREFULLY