STM32H7B3 Discovery Kit

High-performance 32-bit MCU

DISCOVERY BOARD FEATURES

- STM32H7B3LI MCU features
- STM32H7B3LIH6Q with 280 MHz / 600 DMIPS Arm® Cortex®-M7 core
- 2-Mbyte dual-bank embedded Flash
- 1.4-Mbyte embedded RAM
- Chrom-ART Accelerator™

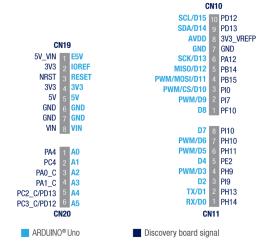
- 512-Mbit Octo-SPI NOR Flash memory
- 128-Mbit SDRAM
- 4.3" TFT LCD display, RGB, 480x272 pixels, capacitive Touch Panel.
- Wireless connectivity: Wi-Fi® (802.11 b/g/n compliant).





- Audio CODEC
- Connectors: STMod+, MEMS digital microphone, FD-CAN, camera interface, audio jacks (IN/OUT), EXT I2C, microSD Card, ARDUINO® Uno V3, USB OTG HS micro-AB.
- On-board STLINK-V3E in-circuit debugger/programmer

STM32H7B3I-DK ARDUINO® Uno Rev 3 connectors



By using or installing (as applicable) this evaluation kit you accept all the terms of the EVALUATION PRODUCT LICENCE AGREEMENT available at www.st.com/epla

FAN-OUT EXPANSION BOARD

- Wi-Fi®, Grove and mikroBUS™ compatible connectors
- Space provided for headers for use with breadboards

ST part number: STM32H7B3I-DK www.st.com/stm32h7-discovery

STM32H7 Discovery kit for STM32H7B3 MCUs

GETTING STARTED

- 1/ Ensure that jumper JP1 is set to STLK.
- 2/ Connect a Type-A to Micro-B USB cable from the STM32H7B3I Discovery board (connector USB STLINK CN14) to a PC to power the board. Then LEDs LD5 (+5V) and LD4 (STLINK COM) will light up.
- 3/ Take advantage of three graphical stacks running on the same board with many featured applications for each selected Sub-Demo:
 - Menu launcher
 - Audio player TGFX application (MP3 support)
 - · Clock and Weather with Alarm feature
 - Video player TGFX application (Audio enabled)
- · TGFX Graphic demo: Effects and accelerator
- STemWin Graphic demo
- · EWZ Graphic demo
- 4/ The demo application software as well as other software examples and applications for exploring STM32H7 features are available at www.st.com/en/product/stm32h7b3i-dk

SYSTEM REQUIREMENTS

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

DEVELOPMENT TOOLCHAINS

- Keil® MDK-ARM1
- IARTM EWARM1
- GCC-based IDEs
- 1. On Windows® only



This device complies with part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference.

Contains module from Inventek Systems:

- model: ISM43340-M4G-L44-10CF FCC ID: 07P-341 IC: 10147A-341



EMBEDDED SOFTWARE

STM32CubeH7 MCU Package featuring embedded software solution featuring drivers, RTOS, file system, USB, graphics and examples for this board.





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