STM32H735G-DK ACTIVE

Discovery kit with STM32H735IG MCU

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Overview

Product overview

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Description

The STM32H735G-DK Discovery kit is a complete demonstration and development platform for Arm® Cortex®-M7 core-based STM32H735IGK6U microcontroller, with 1 Mbyte of Flash memory and 564 Kbytes of SRAM.

The STM32H735G-DK Discovery kit is used as a reference design for user application development before porting to the final product, thus simplifying the application development.

The full range of hardware features available on the board helps users to enhance their application development by an evaluation of all the peripherals (such as USB OTG FS, Ethernet, microSD™ card, USART, CAN FD, SAI audio DAC stereo with audio jack input and output, MEMS digital microphone, HyperRAM™, Octo-SPI Flash memory, RGB interface LCD with capacitive touch panel, and others). ARDUINO® Uno V3, Pmod™ and STMod+ connectors provide easy connection to extension shields or daughterboards for specific applications.

STLINK-V3E is integrated into the board, as the embedded in-circuit debugger and programmer for the STM32 MCU and USB Virtual COM port bridge.

The STM32H735G-DK board comes with the STM32CubeH7 MCU Package, which provides an STM32 comprehensive software HAL library as well as various software examples.

All features

- STM32H735IGK6U microcontroller featuring 1 Mbyte of Flash memory and 564 Kbytes of SRAM in UFBGA176+25 package
- 4.3" TFT 480×272 pixels colored LCD module with capacitive touch panel and RGB interface
- Ethernet compliant with IEEE-802.3-2002 and PoE (Power over Ethernet)
- USB OTG FS
- SAI audio codec
- One ST-MEMS digital microphone
- 512-Mbit Octal-SPI NOR Flash memory
- 128-Mbit HyperRAM
- Two user LEDs
- User and reset push-buttons
- Fan-out daughterboard
- Three CAN FDs
- Board connectors:
  - USB FS Micro-AB
  - USB ST-LINK Micro-B
  - Ethernet RJ45
  - Stereo headset jack including analog microphone input
  - Audio header for external speakers
  - microSD™ card
  - TAG connector 10-pin footprint
  - SMA connector
  - Arm® Cortex® 10-pin 1.27 mm-pitch debug connector over STDC14 footprint
  - ARDUINO® Uno V3 expansion connector
  - STMod+ expansion connector
  - Pmod™ Type-2A and Type-4A expansion connector
  - Audio MEMS daughterboard expansion connector
- Flexible power-supply options:
  - STLINK-V3E USB connector
  - USB OTG FS connector
  - 5 V delivered by RJ45 (Power over Ethernet)
  - 5 V delivered by ARDUINO®
  - USB charger
- On-board STLINK-V3E debugger/programmer with USB re-enumeration capability: mass storage, Virtual COM port, and debug port
- Comprehensive free software libraries and examples available with the STM32CubeH7 MCU Package
- Support of a wide choice of Integrated Development Environments (IDEs) including IAR™, Keil®, and STM32CubeIDE

You might also like...

STEVAL-MIC008A

Dual MP23DB01HP MEMS mic daughter board compatible with STM32H7 discovery kit

X-CUBE-AZRTOS-H7

Azure RTOS software expansion for STM32Cube for STM32H7 series

STM32CubeH7

STM32Cube MCU Package for STM32H7 series (HAL, Low-Layer APIs and CMSIS, USB, TCP/IP, File system, RTOS, Graphic - and examples running on ST boards)

Featured Videos

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TouchGFX Demo on STM32H735G-DK

Discover STMicroelectronics TouchGFX Demo running on new STM32H735G-DK, and learn more about the STM32H725/35 Graphics features.

Watch the video (02:26)

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