The 32F429IDISCOVERY kit leverages the capabilities of the STM32F429 high-performance microcontrollers, to allow users to easily develop rich applications with advanced Graphic User interfaces.

With the latest board enhancement, the new STM32F429I-DISC1 order code has replaced the old STM32F429I-DISCO order code.

Key Features

- STM32F429ZIT6 microcontroller featuring 2 Mbytes of Flash memory, 256 Kbytes of RAM in an LQFP144 package
- On-board ST-LINK/V2 on STM32F429I-DISCO (old order code) or ST-LINK/V2-B on STM32F429I-DISC1 (new order code)
- mbed™-enabled (see http://mbed.org) with the new order code only
- USB functions:
    - Debug port
    - Virtual COM port (with new order code only)
    - Mass storage (with new order code only)
- Board power supply: through the USB bus or from an external 3 V or 5 V supply voltage
- 2.4" QVGA TFT LCD
- 64-Mbit SDRAM
- L3GD20, ST-MEMS motion sensor 3-axis digital output gyroscope
- Six LEDs:
    - LD1 (red/green) for USB communication
    - LD2 (red) for 3.3 V power-on
    - Two user LEDs: LD3 (green), LD4 (red)
    - Two USB OTG LEDs: LD5 (green) VBUS and LD6 (red) OC (over-current)
- Two push-buttons (user and reset)
- USB OTG with micro-AB connector
- Extension header for LQFP144 I/Os for a quick connection to the prototyping board and an easy probing
- Comprehensive free software including a variety of examples, part of STM32CubeF4 package or STSW-STM32138, for using legacy standard libraries

Image