

# MCBSTM32F400



The Keil MCBSTM32F400 Evaluation Board enables you to create and test working programs based on the STMicroelectronics STM32 F4xx series of ARM Cortex™-M4 processor-based devices.

## Features

- 168MHz STM32F407IG ARM Cortex™-M4 processor-based MCU in 176-pin BGA
- On-Chip Memory: 1MB Flash & 192KB RAM
- External Memory: 8MB NOR Flash, 512MB NAND Flash, 2MB SRAM, 8KB I<sup>2</sup>C EEPROM with NFC interface
- 2.4 inch Color QVGA TFT LCD with resistive touchscreen
- 10/100 Ethernet Port
- USB 2.0 Full Speed - USB, USB-OTG, & USB Host
- USB 2.0 High Speed - USB, USB-OTG, & USB Host
- 1 CAN Interface
- Serial/UART Port
- MicroSD Card Interface
- 5-position Joystick
- 3-axis digital Accelerometer
- 3-axis digital Gyroscope
- Analog Voltage Control for ADC Input (potentiometer)
- Audio CODEC with Line-In/Out and Speaker/Microphone
- Digital Microphone
- Digital VGA Camera
- Push-Buttons for Reset, Wakeup, Tamper and User
- 8 LEDs directly connected to port pins
- Power Supply via:
  - High Speed and Full Speed USB (micro) connectors
  - Power jack (8V-12V) with Voltage Regulator capable to supply both USB host interfaces (500mA each)
- Debug Interface [Connectors](#)
  - 20 pin JTAG (0.1 inch connector)
  - 10 pin Cortex debug (0.05 inch connector)
  - 20-pin Cortex debug + ETM Trace (0.05 inch connector)



## Evaluation Software

The MCBSTM32F400 Evaluation Board and Starter Kit include the [MDK-Lite](#) development tools. These tools help you get started writing programs and testing the microcontroller and its capabilities. Sample applications that run on the MCBSTM32F400 and a Quickstart guide are included.

## Ordering Information

The MCBSTM32F400 is available as a stand alone evaluation board or as a **starter kit** which includes the [ULINK-ME](#) debug adapter.

- **MCBSTM32F400**: MCBSTM32F400 evaluation board
- **MCBSTM32F400UME**: MCBSTM32F400 starter kit (includes ULINK-ME)