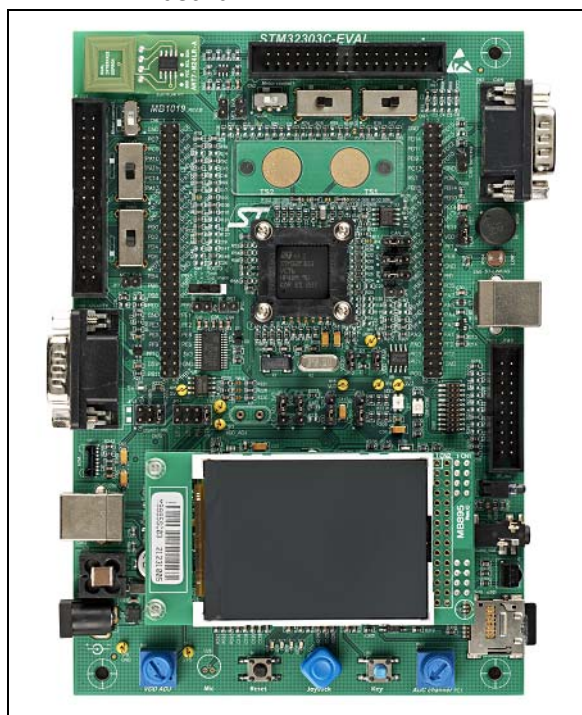# STM32303C-EVAL

STM32303C-EVAL evaluation board

Features

- Four 5 V power supply options: Power jack, ST-LINK/V2 USB connector, User USB connector or daughter board
- I^{2}S Audio DAC, stereo audio jack which supports headset with microphone
- 2-Gbyte or more SPI interface MicroSD card
- I^{2}C compatible serial interface temperature sensor, EEPROM and RF EEPROM
- RS232 communication
- IrDA transceiver
- JTAG/SWD and ETM trace debug support, ST-LINK/V2 embedded
- 1-Mbit SPI serial Flash memory
- 240x320 TFT color LCD connected to the SPI interface
- Joystick with 4-direction control and selector
- Reset, Tamper or Key button
- 4-color user LEDs and high brightness LED
- Humidity sensor
- Extension connectors for daughter board or wrapping board
- MCU voltage choice: 3.3 V or adjustable from 2.0 V to 3.6 V
- USB FS connector
- Touch-sensing buttons
- RTC with backup battery
- CAN2.0A/B compliant connection
- Light-dependent resistor (LDR)
- IR receiver
- Potentiometer
- 2 motor control connectors

Figure 1.   STM32303C-EVAL evaluation board

1.   The board figure is not contractual.

Description

The STM32303C-EVAL evaluation board has been designed as a complete demonstration and development platform for the ARM cortex-M4 core-based STM32F303VCT6 microcontroller. It features two I2Cs, three SPIs, five USARTs, one CAN, four 12-bit ADCs, two 12-bit DACs, internal 40-KByte Data SRAM, 8-KByte Program SRAM and 256-KByte Flash, Touch sensing, USB FS, JTAG debugging support. This evaluation board can be used as the reference design for user application development but it is not considered as a final application.

The full range of hardware features on the board is able to help you evaluate all peripherals (USB FS, USART, Audio DAC and ADC, TFT color LCD, IrDA, LDR, MicroSD card, motor control connectors, humidity sensor, high brightness LED, CAN, IR receiver, EEPROM, touch sensing buttons & temperature sensor, etc.) and develop your own applications. Extension headers make it possible to easily connect a daughter board or wrapping board for your specific application.

An ST-LINK/V2 is integrated on the board as an embedded in-circuit debugger and programmer for the STM32 MCU.

Demonstration software

The demonstration software is preloaded in the board's Flash memory for an easy demonstration of the device peripherals in standalone mode. For more information and to download the latest version available, please refer to the STM32303C-EVAL demonstration software available on www.st.com.

Order code

To order the STM32F303VCT6 evaluation board, use the STM32303C-EVAL order code.

Revision history

Table 1.   Document revision history

Date	Revision	Changes
11-Sep-2012	1	Initial release.

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