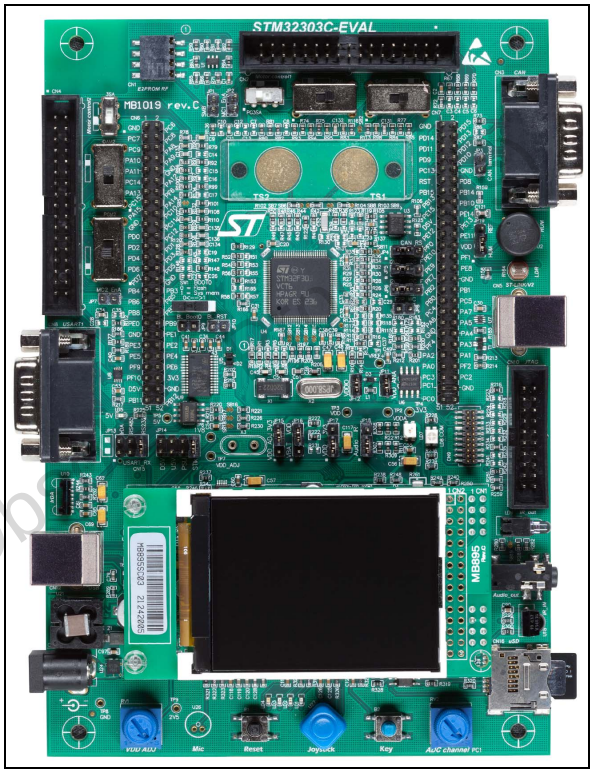
STM32303C-EVAL

Evaluation board for STM32F303xx microcontrollers

Data brief

Features



- STM32F303VCT6 microcontroller
- Four 5 V power supply options:
  - Power jack
  - ST-LINK/V2 USB connector
  - User USB connector
  - Daughterboard
- I^2S Audio DAC, stereo audio jack which supports headset with microphone
- 2-Gbytes (or more) MicroSD card on SPI
- I^2C compatible serial interface temperature sensor, EEPROM and RF-EEPROM
- RS-232 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: 3.3 V or adjustable 2.0 V - 3.6 V
- USB FS connector
- Touch-sensing buttons
- RTC with backup battery
- CAN 2.0A/B compliant connection
- Light-dependent resistor (LDR)
- IR receiver
- Potentiometer
- 2 motor control connectors

1 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 I^2Cs, three SPIs, five USARTs, one CAN, four 12-bit ADCs, two 12-bit DACs, internal 40 Kbytes Data SRAM, 8 Kbytes Program SRAM and 256 Kbytes Flash, Touch sensing, USB FS, JTAG debugging support. This evaluation board can be used as the reference design for the development of user's application but it is not considered as a final application.

The full range of hardware features on the board is able to help the user to 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 and temperature sensor, etc.) and develop his applications. Extension headers make it possible to easily connect a daughterboard or wrapping board for any specific application.

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

The STM32303C-EVAL evaluation board does not support STM32F313xx MCUs (1.65 V to 1.95 V power supply).

2 Demonstration software

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

3 Ordering information

STM32303C-EVAL is replaced by STM32303E-EVAL. To order the evaluation board for STM32F303xx microcontrollers, use the order code: STM32303E-EVAL.

4 Revision history

Table 1. Document revision history

Date	Revision	Changes
11-Sep-2012	1	Initial release.
11-Mar-2013	2	Modified title, evaluation board photo, *Features* and *Ordering information*. Added information on STM32F313xx MCUs in *Description*.
03-Apr-2015	3	Updated *Section : Ordering information*

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