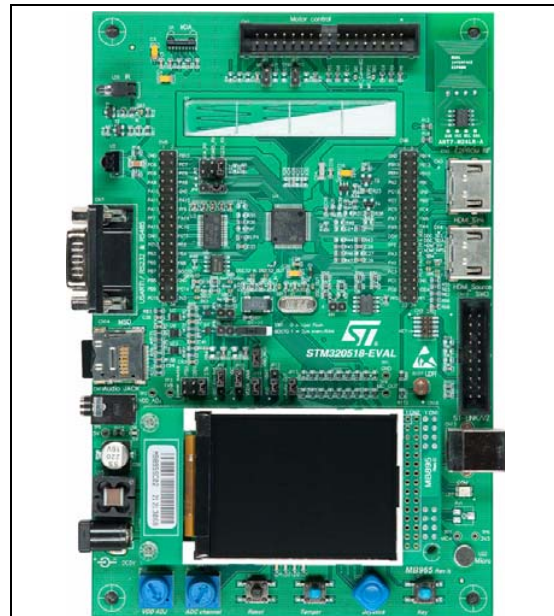




### Features

- Three 5 V power supply options:
  - Power jack
  - ST-LINK/V2 USB connector or daughter board
- Audio speaker and microphone connected to the STM32F051R8T6 DAC and ADC
- 2Gbyte or more MicroSD card with SPI interface
- Temperature sensor and RF EEPROM accessible through I<sup>2</sup>C compatible serial interface
- RS232 and RS485 communications
- IrDA transceiver.
- IR LED and IR receiver.
- SWD debug support, and embedded ST-LINK/V2
- 240x320 TFT color LCD connected to the STM32F051R8T6 SPI interface
- Joystick with 4-direction control and selector
- Reset, tamper and user buttons.
- 4 color user LEDs
- Extension connector for daughter board or wrapping board
- MCU voltage: fixed to 3.3 V, or adjustable from 2 to 3.6 V
- Touch slider
- Light dependent resistor (LDR)
- Potentiometer
- Two HDMI connectors with DDC and CEC
- Motor control connector
- RoHS compliant board (lead free)



### Description

The STM320518-EVAL evaluation board is a complete demonstration and development platform for the STM32 F0 series entry-level MCUs. It includes an STM32F051R8T6 ARM Cortex-M0 32-bit microcontroller with 64KB of Flash memory.

The board offers a full range of hardware features to help you evaluate all peripherals (motor control, RS232, RS485, audio DAC, Touch slider, microphone ADC, TFT LCD, IrDA, IR LED, IR receiver, LDR, MicroSD card, CEC on two HDMI connectors, RF EEPROM & Temperature sensor... etc.) and develop your own application.

Extension headers allow to easily connect a daughter board or wrapping board for your specific application.

An ST-LINK/V2 is integrated on the board as embedded in-circuit debugger and programmer for the STM32F051R8T6 MCU.

# 1 Ordering information

Table 1. Device summary

Order code	Reference
STM320518-EVAL	STM32 F0 series evaluation board

# 2 Revision history

Table 2. Document revision history

Date	Revision	Changes
23-Apr-2012	1	Initial release.

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