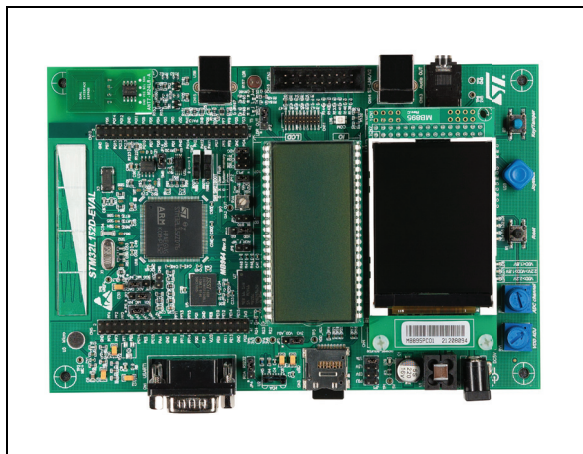




Features

- STM32L152ZDT6 microcontroller
- Four 5 V power supply options:
 - Power jack
 - ST-LINK/V2 USB connector
 - User USB connector
 - Daughterboard
- Audio jack connected to I2S DAC or STM32L152ZDT6 internal DAC
- Microphone connected to ADC using integrated op amp as amplifier
- 2 GByte (or more) MicroSD Card on SDIO
- Temperature sensor and RF EEPROM on I2C compatible serial interface
- RS-232 interface configurable for communication or Flash loader
- IrDA transceiver
- 4 Kbit serial Flash, 512 K x 16-bit SRAM and 128 Mbit NOR Flash
- 240x320 TFT color LCD connected to FSMC interface of STM32L152ZDT6
- Joystick with 4-direction control and selector
- Reset and Tamper or key button
- 4 color user LEDs
- 3 LEDs for MCU power range indicator
- MCU consumption measurement circuit
- 40x8 glass LCD segments connected to LCD driver of the STM32L152ZDT6
- Extension connector for daughterboard or wrapping board
- MCU voltage; 3.3 V or adjustable 1.65 V-3.6 V
- USB FS connector
- Touch slider
- Light dependent resistor (LDR)
- ADC/ DAC input signal connector



- MCU integrated op amp configured as Sallen-Key 2nd order low pass filter
- MCU integrated op amp configured as amplifier with adjustable gain
- Potentiometer
- JTAG and trace debug support
- Embedded ST-LINK/V2

Description

The STM32L152D-EVAL evaluation board is a complete demonstration and development platform for the STM32 L1 series of ultra-low-power MCUs and includes an STM32L152ZDT6 ARM Cortex-M3 32-bit microcontroller with 384 KB of Flash memory. An ST-LINK/V2 is integrated on the board as an embedded in-circuit debugger / programmer for the STM32L152ZDT6. The full range of hardware features on the board helps you develop your own applications and evaluate all peripherals (USB FS, USART, audio DAC, microphone ADC, dot-matrix LCD, LCD glass, IrDA, LDR, SRAM, NOR Flash, MicroSD Card, temperature sensor and so on).

Extension headers facilitate easy connection of daughterboard or wrapping board for your application.

Ordering information

Table 1. Product summary

Order code	Reference
STM32L152D-EVAL	STM32L152D-EVAL evaluation board

Revision history

Table 2. Document revision history

Date	Revision	Changes
16-Mar-2012	1	Initial release.

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