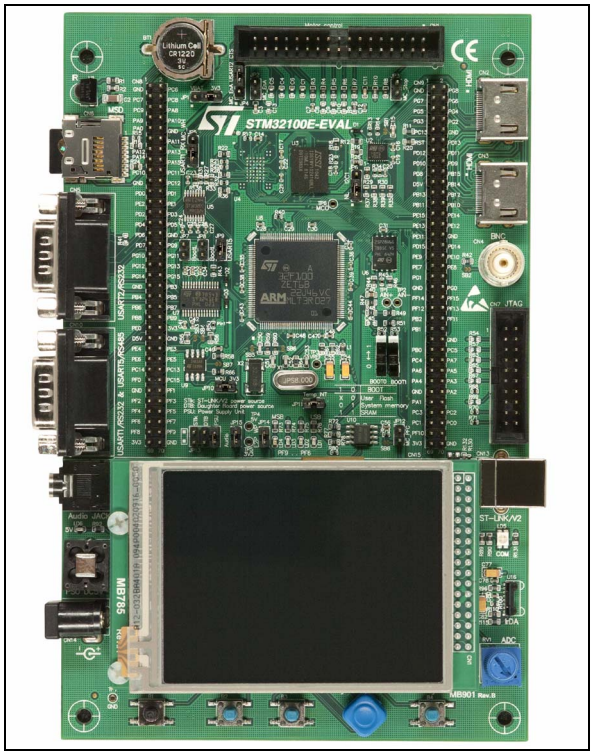
STM32100E-EVAL

STM32100E-EVAL evaluation board

Data brief

Features

- Three 5V power supply options:
  - Power jack
  - ST-LINK/V2 connector
  - Daughterboard
- Boot from user Flash, system memory or SRAM
- 1 Gbyte (or more) MicroSD card
- 16 Mbytes of serial Flash memory
- 2 Mbytes of SRAM
- 64 Kbits of EEPROM
- Embedded ST-LINK/V2 debugger and programmer
- I^2C/SMBus compatible serial interface temperature sensor
- 2-channel RS-232 communication interface with RTS/CTS handshake support on one channel
- 1-channel RS-485 communication interface sharing the USART1 connector
- Extension connector for daughterboard or wrapping board
- IrDA transceiver
- IR receiver
- Inductor motor control connector
- HDMI with CEC connection
- JTAG and SWD debug support
- 3.2" TFT color LCD with touch screen
- Joystick with 4-direction control and selector
- Reset, wakeup, tamper and user buttons
- 4 LEDs
- Speaker
- RTC with backup battery
- HDMI with CEC connection



Description

The STM32100E-EVAL evaluation board is designed as a complete development platform for the STMicroelectronics ARM® Cortex-M3 core-based STM32F100 microcontroller.

A full range of hardware features helps you evaluate all peripherals (HDMI CEC, SRAM, motor control, LCD, MicroSD card, Serial Flash, EEPROM, temperature sensor, speaker, IrDA, RS-232 and RS-485 interfaces) and develop your own applications.

Extension headers facilitate the connection of a daughterboard or wrapping board for your specific application.

The in-circuit ST-LINK/V2 tool can be easily used for JTAG and SWD interface debugging and programming.

For further information contact your local STMicroelectronics sales office. www.st.com

1 Demonstration software

Demonstration software is preloaded in the board's Flash memory for easy demonstration of the device peripherals in stand-alone mode. For more information and to download the latest version available, please refer to STM32100E-EVAL demonstration software available on web: www.st.com/mcu

2 Ordering information

Table 1. Device summary

Order code	Reference
STM32100E-EVAL	STM32100E-EVAL evaluation board

3 Revision history

Table 2. Document revision history

Date	Revision	Changes
15-Mar-2011	1	Initial release.

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