



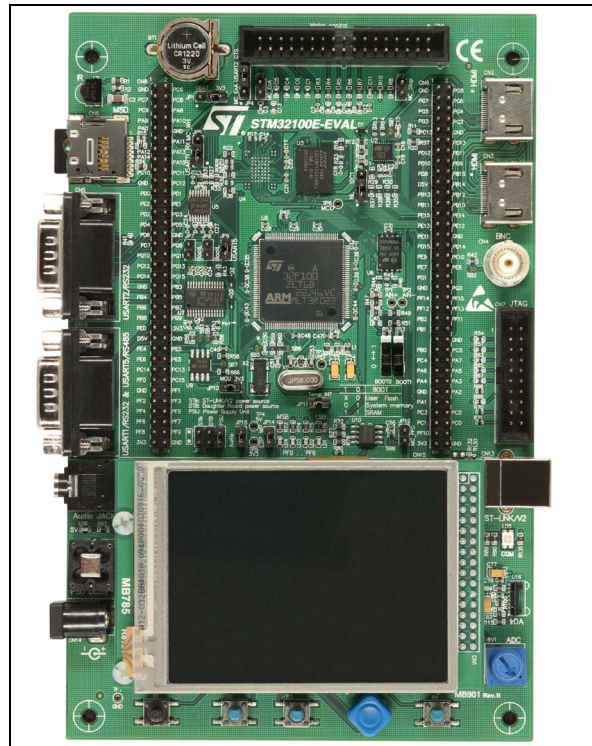
STM32100E-EVAL

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
- I²C/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.

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.

Please Read Carefully:

Information in this document is provided solely in connection with ST products. STMicroelectronics NV and its subsidiaries ("ST") reserve the right to make changes, corrections, modifications or improvements, to this document, and the products and services described herein at any time, without notice.

All ST products are sold pursuant to ST's terms and conditions of sale.

Purchasers are solely responsible for the choice, selection and use of the ST products and services described herein, and ST assumes no liability whatsoever relating to the choice, selection or use of the ST products and services described herein.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted under this document. If any part of this document refers to any third party products or services it shall not be deemed a license grant by ST for the use of such third party products or services, or any intellectual property contained therein or considered as a warranty covering the use in any manner whatsoever of such third party products or services or any intellectual property contained therein.

UNLESS OTHERWISE SET FORTH IN ST'S TERMS AND CONDITIONS OF SALE ST DISCLAIMS ANY EXPRESS OR IMPLIED WARRANTY WITH RESPECT TO THE USE AND/OR SALE OF ST PRODUCTS INCLUDING WITHOUT LIMITATION IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE (AND THEIR EQUIVALENTS UNDER THE LAWS OF ANY JURISDICTION), OR INFRINGEMENT OF ANY PATENT, COPYRIGHT OR OTHER INTELLECTUAL PROPERTY RIGHT.

UNLESS EXPRESSLY APPROVED IN WRITING BY AN AUTHORIZED ST REPRESENTATIVE, ST PRODUCTS ARE NOT RECOMMENDED, AUTHORIZED OR WARRANTED FOR USE IN MILITARY, AIR CRAFT, SPACE, LIFE SAVING, OR LIFE SUSTAINING APPLICATIONS, NOR IN PRODUCTS OR SYSTEMS WHERE FAILURE OR MALFUNCTION MAY RESULT IN PERSONAL INJURY, DEATH, OR SEVERE PROPERTY OR ENVIRONMENTAL DAMAGE. ST PRODUCTS WHICH ARE NOT SPECIFIED AS "AUTOMOTIVE GRADE" MAY ONLY BE USED IN AUTOMOTIVE APPLICATIONS AT USER'S OWN RISK.

Resale of ST products with provisions different from the statements and/or technical features set forth in this document shall immediately void any warranty granted by ST for the ST product or service described herein and shall not create or extend in any manner whatsoever, any liability of ST.

ST and the ST logo are trademarks or registered trademarks of ST in various countries.

Information in this document supersedes and replaces all information previously supplied.

The ST logo is a registered trademark of STMicroelectronics. All other names are the property of their respective owners.

© 2011 STMicroelectronics - All rights reserved

STMicroelectronics group of companies

Australia - Belgium - Brazil - Canada - China - Czech Republic - Finland - France - Germany - Hong Kong - India - Israel - Italy - Japan - Malaysia - Malta - Morocco - Philippines - Singapore - Spain - Sweden - Switzerland - United Kingdom - United States of America

www.st.com