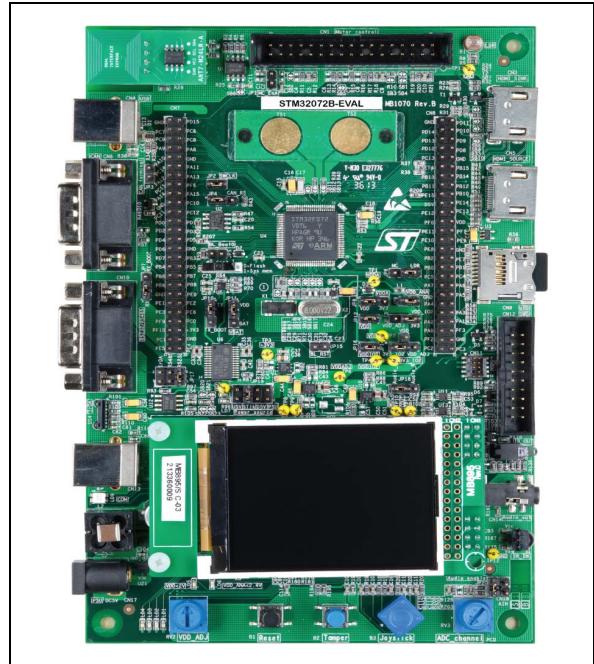


Evaluation board for STM32 F0 series with STM32F072VB MCU

Data brief

Features

- Four 5 V power supply options: power jack, ST-LINK/V2 USB connector, user USB connector or daughter board
- Stereo audio jack which supports a headset with microphone connected to DAC and ADC of STM32F072VBT6.
- 2G Byte (or more) SPI interface MicroSD card
- I2C compatible serial interface temperature sensor
- RF E2PROM
- RS232 and RS485 communication
- IrDA transceiver
- IR LED and IR receiver
- SWD debug support, ST-LINK/V2 embedded
- 240x320 TFT color LCD connected to SPI interface of STM32F072VBT6
- Joystick with 4-direction control and selector
- Reset and tamper buttons
- Four color user LEDs and two LEDs as MCU low power alarm
- Extension connector for daughter board or wrapping board
- MCU voltage choice fixed 3.3 V or adjustable from 1.65 V to 3.6 V
- USB full-speed connector
- Touch sensing buttons
- RTC with backup battery
- CAN2.0A/B compliant connector
- Light Dependent Resistor (LDR)
- Potentiometer
- Two HDMI connectors with DDC and CEC
- Smart Card slot
- Motor control connector



Description

The STM32072B-EVAL evaluation board is designed as complete demonstration and development platform for STMicroelectronics ARM cortex-M0 core-based STM32F072VBT6 microcontroller with two I2C, two SPI, four USART, one CAN, 12-bit ADC, 12-bit DAC, two GP comparators, internal 16KB SRAM and 128KB Flash, USB FS, Touch sensing, CEC, SWD debugging support.

The full range of hardware features on the board is designed for the evaluation of all the peripherals and the development of user-specific applications. Extension headers are used to easily connect a daughter board or a wrapping board for user-specific applications.

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

1 Ordering information

To order the evaluation board based on the STM32F072VBT6 MCU, use the order code STM32072B-EVAL.

2 Revision history

Table 1. Document revision history

Date	Revision	Changes
13-Jan-2014	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.

ST PRODUCTS ARE NOT DESIGNED OR AUTHORIZED FOR USE IN: (A) SAFETY CRITICAL APPLICATIONS SUCH AS LIFE SUPPORTING, ACTIVE IMPLANTED DEVICES OR SYSTEMS WITH PRODUCT FUNCTIONAL SAFETY REQUIREMENTS; (B) AERONAUTIC APPLICATIONS; (C) AUTOMOTIVE APPLICATIONS OR ENVIRONMENTS, AND/OR (D) AEROSPACE APPLICATIONS OR ENVIRONMENTS. WHERE ST PRODUCTS ARE NOT DESIGNED FOR SUCH USE, THE PURCHASER SHALL USE PRODUCTS AT PURCHASER'S SOLE RISK, EVEN IF ST HAS BEEN INFORMED IN WRITING OF SUCH USAGE, UNLESS A PRODUCT IS EXPRESSLY DESIGNATED BY ST AS BEING INTENDED FOR "AUTOMOTIVE, AUTOMOTIVE SAFETY OR MEDICAL" INDUSTRY DOMAINS ACCORDING TO ST PRODUCT DESIGN SPECIFICATIONS. PRODUCTS FORMALLY ESCC, QML OR JAN QUALIFIED ARE DEEMED SUITABLE FOR USE IN AEROSPACE BY THE CORRESPONDING GOVERNMENTAL AGENCY.

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.

© 2014 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

