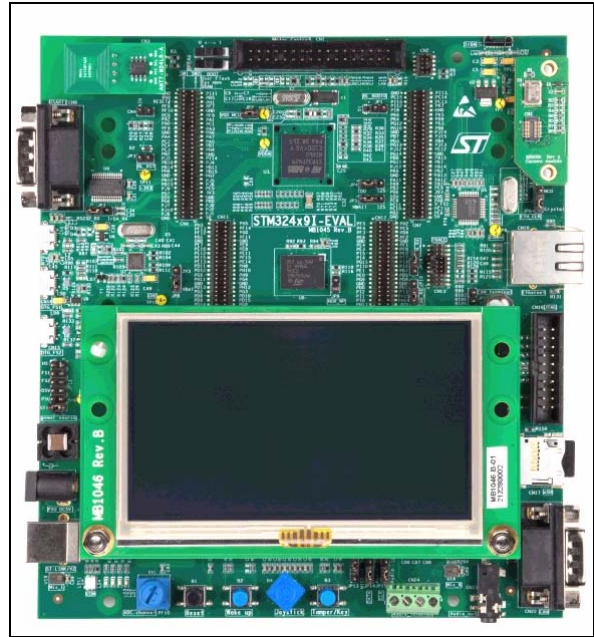


Evaluation board for the STM32F429 line

Data brief

Features

- STM32F429NIH6 microcontroller
- 4.3" color TFT LCD with resistive touchscreen (480 x 272 pixels)
- Six 5 V power supply options:
 - Power jack
 - ST-LINK/V2 USB connector
 - User USB HS connector
 - User USB FS1 connector
 - User USB FS2 connector
 - Daughterboard
- SAI Audio DAC, stereo audio jack which supports headset with microphone
- Stereo digital microphone, audio terminal connector used to connect external speakers
- 2 GBytes (or more) SDIO interface MicroSD card
- RF EEPROM on I²C compatible serial interface
- RS-232 communication
- IrDA transceiver
- JTAG/SWD and ETM trace debug support, ST-LINK/V2 embedded
- IEEE-802.3-2002 compliant Ethernet connector
- Camera module
- 8M x 32-bit SDRAM, 1M x 16-bit SRAM and 8M x 16-bit NOR Flash
- Joystick with 4-directional control and selector
- Reset, Wakeup and Tamper buttons
- 4 color user LEDs
- Extension connectors & memory connectors for daughterboard or wrapping board
- USB OTG HS and FS with Micro-AB connectors
- RTC with backup battery
- CAN2.0A/B compliant connection
- Potentiometer
- Motor control connector



Description

The STM32429I-EVAL evaluation board is a complete demonstration and development platform for the STMicroelectronics ARM[®] Cortex[™]-M4 core-based STM32F429 line microcontrollers.

The integrated ST-LINK/V2 provides an embedded in-circuit debugger and programmer for the STM32 MCU. Extension headers make it possible to easily connect a daughterboard for your specific application.

The STM32429I-EVAL evaluation board includes everything required for beginners and experienced users to develop applications quickly.

1 Demonstration software

Demonstration software is preloaded in the Flash memory on the board for easy demonstration of the device peripherals in standalone mode. For more information and to download the latest version available, refer to the STM32429I-EVAL demonstration software available on www.st.com.

2 Ordering information

To order the evaluation board based on the STM32F429NIH6 MCU with a 4.3" color TFT LCD with a resistive touchscreen, use the order code: STM32429I-EVAL1.

3 Revision history

Table 1. Document revision history

Date	Revision	Changes
10-Sep-2013	1	Initial version.

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 AUTHORIZED FOR USE IN WEAPONS. NOR ARE ST PRODUCTS 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.

© 2013 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

