

## Evaluation board with STM32F439NI MCU

Data brief

### Features

- STM32F439NIH6 microcontroller
- 5.7" color VGA TFT LCD with capacitive touchscreen (640 x 480 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 I<sup>2</sup>C 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



1. Picture not contractual

### Description

The STM32439I-EVAL evaluation board is a complete demonstration and development platform for the STMicroelectronics ARM<sup>®</sup> Cortex<sup>®</sup>-M4 core-based STM32F439 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 specific applications of the users.

The STM32439I-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 STM32439I-EVAL demonstration software available on [www.st.com](http://www.st.com).

# 2 Ordering information

To order the evaluation board based on the STM32F439NI MCU with a 5.7” color VGA TFT LCD with a capacitive touchscreen, use the order code: STM32439I-EVAL2.

# 3 Revision history

**Table 1. Document revision history**

Date	Revision	Changes
10-Sep-2013	1	Initial version.
09-Feb-2015	2	Updated <a href="#">Section : Features</a> and <a href="#">Section 2: Ordering information</a>

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