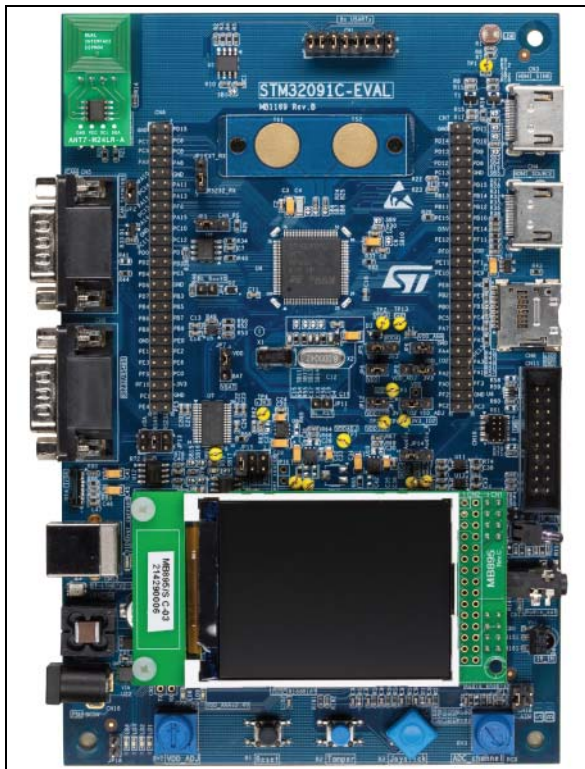


## Evaluation board for STM32F0x1 line - with STM32F091VC MCU

Data brief



1. Picture not contractual

- SWD debug support, ST-LINK/V2-1 embedded
- 240x320 TFT color LCD connected to SPI interface of STM32F091VCT6
- Joystick with 4-direction control and selector
- Reset, Tamper & User buttons
- 4 color user LEDs and 2 LEDs as MCU low power alarm
- Extension connector for daughter board or wrapping board
- MCU voltage choice fixed 3.3v or adjustable from 1.65v to 3.6v
- Touch sensing buttons
- RTC with backup battery
- CAN2.0A/B compliant connection
- Light dependent resistor (LDR)
- Potentiometer
- Two HDMI connectors with DDC & CEC
- Smart card slot
- 8x USARTs chain connector

### Features

- Three 5V power supply options: power jack, ST-LINK/V2-1 USB connector or daughter board
- Stereo audio jack which supports headset with earphone connected to DAC and microphone connected to ADC of STM32F091VCT6
- 2G or more Byte SPI interface MicroSD card
- I2C compatible serial interface temperature sensor
- RF E2PROM
- RS232 & RS485 communication
- IrDA transceiver
- IR LED & IR receiver

# 1 Description

The STM32091C-EVAL evaluation board has been designed as a complete demonstration and development platform for STMicroelectronics ARM<sup>®</sup> cortex<sup>®</sup>-M0 core-based STM32F091VCT6 microcontroller with two I<sup>2</sup>C, two SPI, eight USART, one CAN, one 12bit ADC, two 12bit DAC, two GP comparators, internal 32KB SRAM and 256KB Flash, Touch sensing, CEC, SWD debugging support.

The full range of hardware features on the board can be used to evaluate all peripherals (8x USARTs, RS232, RS485, Audio DAC, microphone ADC, touch sensing buttons, TFT LCD, CAN, IrDA, IR LED, IR receiver, LDR, MicroSD card, CEC on two HDMI connectors, smart card slot, RF E2PROM & temperature sensor, etc.) and develop your own applications. Extension headers make it possible to easily connect a daughter board or wrapping board for your specific application.

An ST-LINK/V2-1 is integrated on the board as embedded in-circuit debugger and programmer for the STM32 MCU.

## 2 Ordering information

To order the STM32091C-EVAL board, use the order code: STM32091C-EVAL.

### 3 Revision history

**Table 1. Document revision history**

<b>Date</b>	<b>Revision</b>	<b>Changes</b>
17-Sep-2014	1	Initial release.
09-Oct-2014	2	Updated picture in the cover page.

**IMPORTANT NOTICE – PLEASE READ CAREFULLY**

STMicroelectronics NV and its subsidiaries (“ST”) reserve the right to make changes, corrections, enhancements, modifications, and improvements to ST products and/or to this document at any time without notice. Purchasers should obtain the latest relevant information on ST products before placing orders. ST products are sold pursuant to ST’s terms and conditions of sale in place at the time of order acknowledgement.

Purchasers are solely responsible for the choice, selection, and use of ST products and ST assumes no liability for application assistance or the design of Purchasers’ products.

No license, express or implied, to any intellectual property right is granted by ST herein.

Resale of ST products with provisions different from the information set forth herein shall void any warranty granted by ST for such product.

ST and the ST logo are trademarks of ST. All other product or service names are the property of their respective owners.

Information in this document supersedes and replaces information previously supplied in any prior versions of this document.

© 2014 STMicroelectronics – All rights reserved

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Development Boards & Kits - ARM category](#):*

*Click to view products by [STMicroelectronics manufacturer](#):*

Other Similar products are found below :

[SAFETI-HSK-RM48](#) [PICOHOBBITFL](#) [CC-ACC-MMK-2443](#) [TWR-MC-FRDMKE02Z](#) [EVALSPEAR320CPU](#) [EVB-SCMIMX6SX](#)  
[MAX32600-KIT#](#) [TMDX570LS04HDK](#) [TXSD-SV70](#) [OM13080UL](#) [EVAL-ADUC7120QSPZ](#) [OM13082UL](#) [TXSD-SV71](#)  
[YGRPEACHNORMAL](#) [OM13076UL](#) [PICODWARFFL](#) [YR8A77450HA02BG](#) [3580](#) [32F3348DISCOVERY](#) [ATTINY1607](#) [CURIOSITY](#)  
[NANO](#) [PIC16F15376](#) [CURIOSITY NANO BOARD](#) [PIC18F47Q10](#) [CURIOSITY NANO](#) [VISIONSTK-6ULL V.2.0](#) [80-001428](#) [DEV-17717](#)  
[EAK00360](#) [YR0K77210B000BE](#) [RTK7EKA2L1S00001BE](#) [MAX32651-EVKIT#](#) [SLN-VIZN-IOT](#) [LV18F V6 DEVELOPMENT SYSTEM](#)  
[READY FOR AVR BOARD](#) [READY FOR PIC BOARD](#) [READY FOR PIC \(DIP28\)](#) [EVB-VF522R3](#) [AVRPLC16 V6 PLC SYSTEM](#)  
[MIKROLAB FOR AVR XL](#) [MIKROLAB FOR PIC L](#) [MINI-AT BOARD - 5V](#) [MINI-M4 FOR STELLARIS](#) [MOD-09.Z](#) [BUGGY +](#)  
[CLICKER 2 FOR PIC32MX + BLUETOOT](#) [1410](#) [LETS MAKE PROJECT PROGRAM. RELAY PIC](#) [LETS MAKE - VOICE](#)  
[CONTROLLED LIGHTS](#) [LPC-H2294](#) [DSPIC-READY2 BOARD](#) [DSPIC-READY3 BOARD](#) [MIKROBOARD FOR ARM 64-PIN](#)  
[MIKROLAB FOR AVR](#)