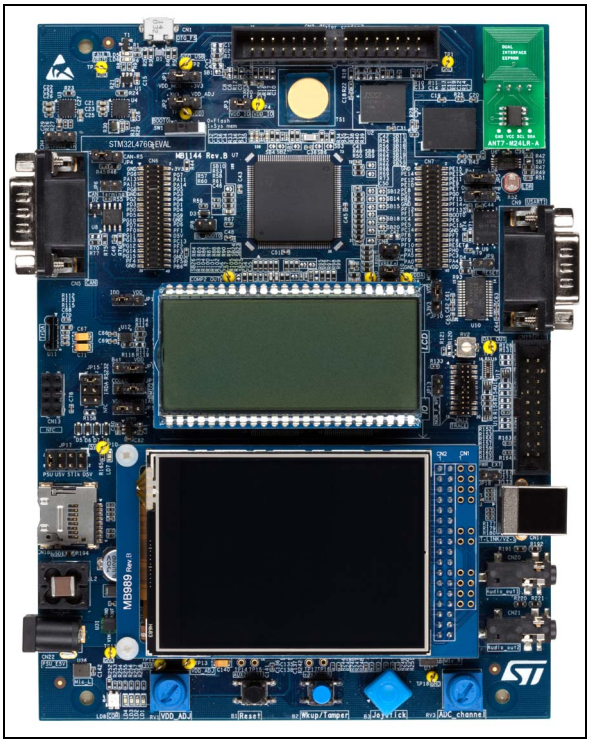
STM32L476G-EVAL

Evaluation board with STM32L476ZG MCU

Data brief

Features

- STM32L476ZGT6 microcontroller with 1-Mbyte Flash memory and 128-Kbyte RAM
- Four power supply options: power jack, ST-LINK/V2-1 USB connector, USB OTG FS connector, daughterboard
- Microcontroller supply voltage: 3.3 V or range from 1.71 V to 3.6 V
- Two MEMS digital microphones
- Two stereo audio headphones jack outputs with independent audio content
- Slot for microSD card supporting SD, SDHC, SDXC
- 4-Gbyte microSD card bundled
- 16-Mbit (1M x 16 bit) SRAM device
- 128-Mbit (8M x 16 bit) NOR Flash memory device
- 256-Mbit Quad-SPI Flash memory device with Double Transfer Rate (DTR) support
- RF-EEPROM with I²C bus
- EEPROM supporting 1 MHz I²C-bus communication speed
- RS-232 port configurable for communication or STM32L476ZGT6 flashing
- IrDA transceiver
- USB OTG FS Micro-AB port
- CAN 2.0A/B-compliant port
- Joystick with four-way controller and selector
- Reset and wake-up / tamper buttons
- Touch-sensing button
- Light-dependent resistor (LDR)
- Potentiometer
- Coin battery cell for power backup
- LCD glass module daughterboard (MB979) with 40x8-segment LCD driven directly by STM32L476ZGT6
- 2.8-inch 320x240 dot-matrix color TFT LCD panel with resistive touchscreen
- Smartcard connector and SWP support
- NFC transceiver connector
- Connector for ADC input and DAC output



1. Picture not contractual.

- Power-metering demonstration with dual-channel sigma-delta modulator
- PT100 thermal sensor with dual-channel sigma-delta modulator
- STM32L476ZGT6 current consumption measurement circuit
- Access to comparator and operational amplifier of STM32L476ZGT6
- Extension connector for motor control module
- JTAG/SWD, ETM trace debug support, user interface through USB virtual COM port, embedded ST-LINK/V2-1 debug and flashing facility

For further information contact your local STMicroelectronics sales office. www.st.com

1 Description

The STM32L476G-EVAL evaluation board has been designed as a complete demonstration and development platform for STMicroelectronics ARM® Cortex®-M4 core-based STM32L476ZGT6 microcontroller with three I²C buses, three SPI, six USART ports, CAN port, SWPMI, two SAI ports, 12-bit ADC, 12-bit DAC, LCD driver, internal 128-Kbyte SRAM and 1-Mbyte Flash memory, Quad-SPI port, touch sensing capability, USB OTG FS port, LCD controller, Flexible Memory Controller (FMC), JTAG debugging support.

The full range of hardware features on the board can be used to evaluate all peripherals (USB OTG FS, USART, digital microphones, ADC and DAC, dot-matrix TFT LCD, LCD glass module, IrDA, LDR, SRAM, NOR Flash memory device, Quad-SPI Flash memory device, microSD card, sigma-delta modulators, smartcard with SWP, CAN transceiver, I²C, EEPROM, RF-EEPROM) and develop user's applications. Extension headers make it possible to easily connect a daughterboard or wrapping board for a specific application.

An ST-LINK/V2-1 is integrated on the board, as embedded in-circuit debugger and programmer for the STM32 MCU and USB virtual COM port bridge.

2 Ordering Information

To order the STM32L476G-EVAL board, use the order code: STM32L476G-EVAL.

3 Revision history

Table 1. Document revision history

Date	Revision	Changes
21-Jan-2015	1	Initial release.
23-Oct-2015	2	Updated *Section : Features*

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