32L476GDISCOVERY

## Discovery kit with STM32L476VG MCU

Features

- STM32L476VGT6 microcontroller featuring 1 Mbyte of Flash memory, 128 Kbytes of RAM in LQFP100 package
- On-board ST-LINK/V2-1 supporting USB re-enumeration capability
- Three different interfaces supported on USB:
  – Virtual com port
  – Mass storage
  – Debug port
- Mbed-enabled (mbed.org)
- LCD 24 segments, 4 commons in DIP 28 package
- Seven LEDs:
  – LD1 (red/green) for USB communication
  – LD2 (red) for 3.3 V power on
  – LD3 Over current (red)
  – LD4 (red), LD5 (green) two user LEDs
  – LD6 (green), LD7 (red) USB OTG FS LEDs
- Pushbutton (reset)
- Four directions Joystick with selection
- USB OTG FS with micro-AB connector
- SAI Audio DAC, Stereo with output jack
- Digital Microphone MEMS Accelerometer and magnetometer Mems
- Gyroscope MEMS
- 128-Mbit Quad-SPI Flash memory
- MCU current ammeter with 4 ranges and auto calibration
- Connector for external board or RF-EEPROM
- Four power supply options:
  – ST-LINK/V2-1
  – USB FS connector
  – External 5 V
  – CR2032 battery (not provided)
- Extension connectors
- Comprehensive free software including a variety of examples, part of STM32Cube package
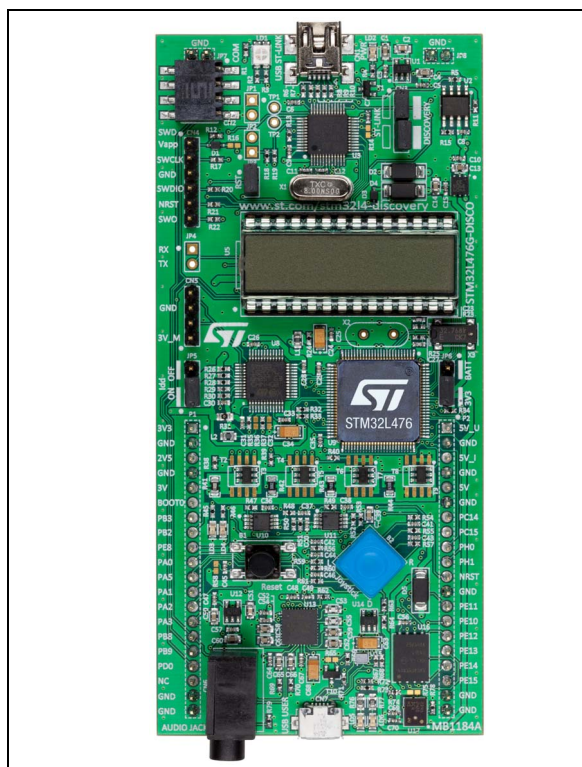
1. Picture not contractual

Description

The 32L476GDISCOVERY helps users to develop and share applications with the STM32L4 ultra-low-power microcontrollers.The Discovery kit combines STM32L476 features with LCD, LEDs, audio DAC, sensors (microphone, 3 axis gyroscope, 6 axis compass), joystick, USB OTG, Quad-SPI Flash memory, expansion and probing connectivity. It includes an embedded Ammeter which measures the MCU consumption in low power modes. An external board can be connected thanks to extension and probing connectors.

mbed Enabled

For further information contact your local STMicroelectronics sales office.

www.st.com

1 System requirements

- Windows® OS (XP, 7, 8)
- USB type A to Mini-B cable

2 Development toolchains

- IAR EWARM (IAR Embedded Workbench®)
- Keil® MDK-ARM™
- GCC-based IDEs (free AC6: SW4STM32, Atollic® TrueSTUDIO®,...)
- ARM® mbed™ online

3 Demonstration software

The demonstration software is preloaded in the STM32L476VGT6 Flash memory. The latest version of the demonstration source code and associated documentation can be downloaded from www.st.com/stm32l4-discovery.

4 Ordering information

To order the Discovery kit based on the STM32L476VG MCU, use the order code: STM32L476G-DISCO.

5   Revision history

Table 1. Document revision history

Date	Revision	Changes
30-Jun-2015	1	Initial release.
10-Jul-2015	2	Updated *Section : Features* adding 1 bullet: Mbed-enabled, Added mbed-enabled logo. Updated *Section 1: System requirements* Updated *Section 2: Development toolchains*

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