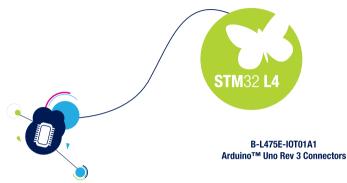
STM32 Discovery kit

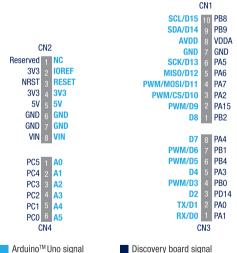






DISCOVERY BOARD FEATURES

- STM32L475 MCU features
 - STM32L475VGT6 MCU with 80 MHz/100 DMIPS ARM® Cortex®-M4 core 153 ULPBench™
 - 1 Mbyte of Flash memory
 - 128 Kbytes of SRAM
- Wireless connectivity: Wi-Fi, NFC, BLE, and Sub-GHz (915 MHz) bands
- Sensors: Gyroscope/accelerometer/ magnetometer, proximity, pressure, humidity, and microphone
- Connectors: USB OTG, Arduino[™] Uno, and Pmod[™]
- Embedded ST-LINK debugger and programmer
- mbed-enabled



By using or installing (as applicable) this evaluation kit you accept all the terms of the EVALUATION PRODUCT LICENCE AGREEMENT available at www.st.com/epla

STM32 Discovery kit IoT node for STM32L475 MCU

GETTING STARTED

- 1/ Ensure that Jumper JP8 is open, Jumpers JP5, JP6 and JP7 are closed, and Jumper JP4 is set to 5V ST LINK.
- 2/ Connect a Type-A to Micro-B USB cable from the B-L475E-IOT01A1 IoT Discovery board (connector USB STLINK CN7) to a PC. The LEDs LD6 (STLINK COM) and LD5 (5V power) will light up.
- 3/ You will have to configure the board with the Wi-Fi network and your AWS data the first time you use it.
 - 1. Follow the steps as described on the "Getting Started with AWS IoT" website to register your device.
 - 2. Connect a UART terminal to the board using the following settings:
 - UART terminal settings: new line receive = auto: new line transmit = Line Feed
 - Serial port setup: select COM port number, 115200 baud rate, 8 bit data, parity none, 1 stop bit, no flow control
 - 3. Press the reset button then the USER button within 5 seconds: follow the UART terminal indications.
 - 4. This data will remain in Flash memory and be reused the next time the board will boot.
- 5/ Board usage: the program will run around 10 minutes. The board sensor values will be regularly published in the AWS IoT cloud. Press the user button (blue) to publish messages to toggle the LED2 via the AWS IoT cloud. Press the black button to reset the board.
- 6/ The demo application software is available at www.st.com/x-cube-aws

SYSTEM REQUIREMENTS

- Windows® OS (XP, 7, 8, 10), Linux or macOS®
- USB Type-A to Micro-B cable

DEVELOPMENT TOOLCHAINS

- Keil® MDK-ARM¹
- IARTM FWARM¹
- GCC-based IDEs including free SW4STM32 from AC6
- ARM[®] mbed[™] online
- 1. On Windows® only





EMBEDDED SOFTWARE

STM32CubeL4 embedded software solution, featuring drivers, RTOS, file system, USB, TCP/IP, graphics and examples for this board.



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B-L475E-IOT01A1/02-0

Order code: B-L475E-IOT01A1

