

STM32 Amazon web services IoT software expansion for STM32Cube

Data brief

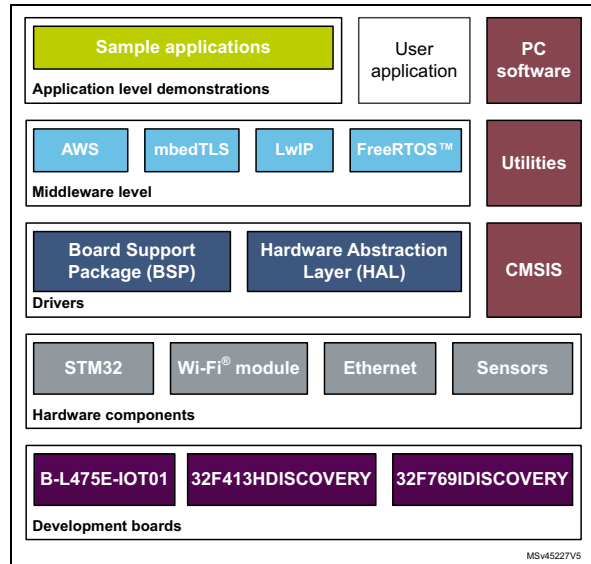
Features

- Ready to run firmware example using Wi-Fi® and Ethernet connectivity to support quick evaluation and development of AWS IoT cloud applications
- Board configuration interface
- AWS IoT connection, subscribe and publish
- Specific features on the B-L475E-IOT01 board such as measurement of humidity, temperature, 3-axis magnetic data, 3D acceleration, 3D gyroscope data, atmospheric pressure and time-of-flight

Description

The X-CUBE-AWS software expansion package consists of a set of libraries and application examples for STM32L4 Series, STM32F4 Series and STM32F7 Series microcontrollers acting as end devices.

X-CUBE-AWS runs on three platforms. The B-L475E-IOT01 and 32F413HDISCOVERY boards support Wi-Fi® connectivity with an on-board Inventek module. The 32F769IDISCOVERY board natively provides an Ethernet interface.



For the three boards, a sample application configures the Wi-Fi® parameters if Wi-Fi® is used, and illustrates the various ways for a device to interact with the AWS IoT™ platform.



Ordering information

X-CUBE-AWS is available for free download from the www.st.com website.

License

The X-CUBE-AWS embedded software package runs on STM32 microcontrollers, based on Arm[®] cores.



X-CUBE-AWS is delivered under the *Mix Liberty + OSS + 3rd party V1* license.

The software components provided in this package come with different license schemes as shown in [Table 1](#).

For more details, refer to the license agreement of each component.

Table 1. Software component license agreements

Software component	Owner	License
aws-iot-device-sdk-embedded-C	Amazon	Apache License - Version 2.0
Board Support Package (BSP)	ST	Open source BSD
Cortex [®] -M CMSIS	Arm [®]	Open source BSD
FreeRTOS [™]	2016 Real Time Engineers Ltd	GNU GPL ⁽¹⁾
HAL STM32 L4/F4/F7	ST	Open source BSD
Inventek driver	ST	Ultimate Liberty (source release)
LwIP	2001-2004 Swedish Institute of Computer Science	Open source BSD
mbedTLS	Arm [®]	Apache License - Version 2.0
Project examples	ST	Ultimate Liberty (source release)

1. The FreeRTOS[™] source code is licensed by a modified GNU General Public License, the modification taking the form of an exception. The exception permits the source code of applications that use FreeRTOS[™] and are distributed as executables to remain closed source, thus permitting the use of FreeRTOS[™] in commercial applications without necessitating that the whole application to be open sourced.

Revision history

Table 2. Document revision history

Date	Revision	Changes
29-Mar-2017	1	Initial release.
16-Oct-2017	2	Updated B-L475E-IOT01 item in Features . Updated Description . Updated License .

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