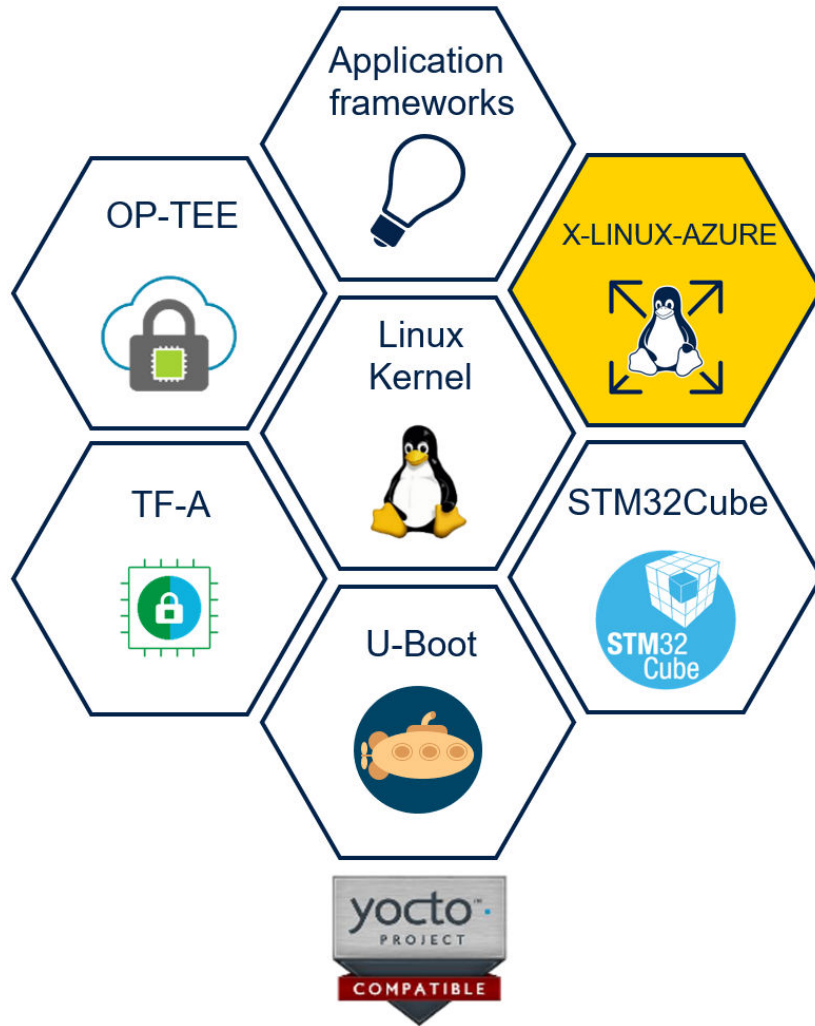


Azure® IoT Edge Expansion Package for STM32 MPU OpenSTLinux



DT73584V1

Product status link

[X-LINUX-AZURE](#)



Features

- Azure[®] IoT Edge integration
- Secured credential storage with one of the following solutions
 - OP-TEE
 - TPM with the [X-LINUX-TPM](#) integration
- Application sample based on GTK[®]
- Compatible with the Yocto Project[®] build system Scarthgap
- Validated over the OpenSTLinux Distribution v6.0 on [STM32MP257F-DK](#) and [STM32MP257F-EV1](#)

Description

[X-LINUX-AZURE](#) is an STM32 MPU OpenSTLinux Expansion Package that targets Microsoft[®] Azure[®] IoT Edge for STM32MP25xx microprocessors.

It integrates the IoT Edge runtime modules to turn an STM32MP25xx MPU into an IoT Edge device to start and accelerate the development of an IoT solution.

In addition, this OpenSTLinux Expansion Package provides good security practices with the integration of a secure solution for credential storage. This solution is based on the usage of OP-TEE or TPM with [X-LINUX-TPM](#) integration.

[X-LINUX-AZURE](#) includes a graphical demonstration application that interacts with IoT Edge runtime to display configuration, or list and restart installed modules.

Note: Microsoft and Azure are trademarks of the Microsoft group of companies.

1 General information

The X-LINUX-AZURE Expansion Package runs on STM32 microprocessors based on Arm® Cortex® processors.

Note: Arm is a registered trademark of Arm Limited (or its subsidiaries) in the US and/or elsewhere.



1.1 Ordering information

X-LINUX-AZURE is available for free download from the www.st.com website.

1.2 Versioning

Since its release v5.1.0, the major and minor versions of the X-LINUX-AZURE OpenSTLinux Expansion Package are aligned on the major and minor versions of the OpenSTLinux Distribution. This prevents painful backward compatibility attempts and makes dependencies straightforward.

The X-LINUX-AZURE generic versioning vx.y.z is built as follows:

- **x**: major version matching the OpenSTLinux Distribution major version. Each new major version is incompatible with previous OpenSTLinux Distribution versions.
- **y**: minor version matching the OpenSTLinux Distribution minor version. Each new minor version might be incompatible with previous OpenSTLinux Distribution versions.
- **z**: patch version to introduce bug fixes. A patch version is implemented in a backward-compatible manner.

1.3 License

X-LINUX-AZURE is delivered under the *Mix Ultimate Liberty+OSS+3rd-party V1* software license agreement (SLA0048).

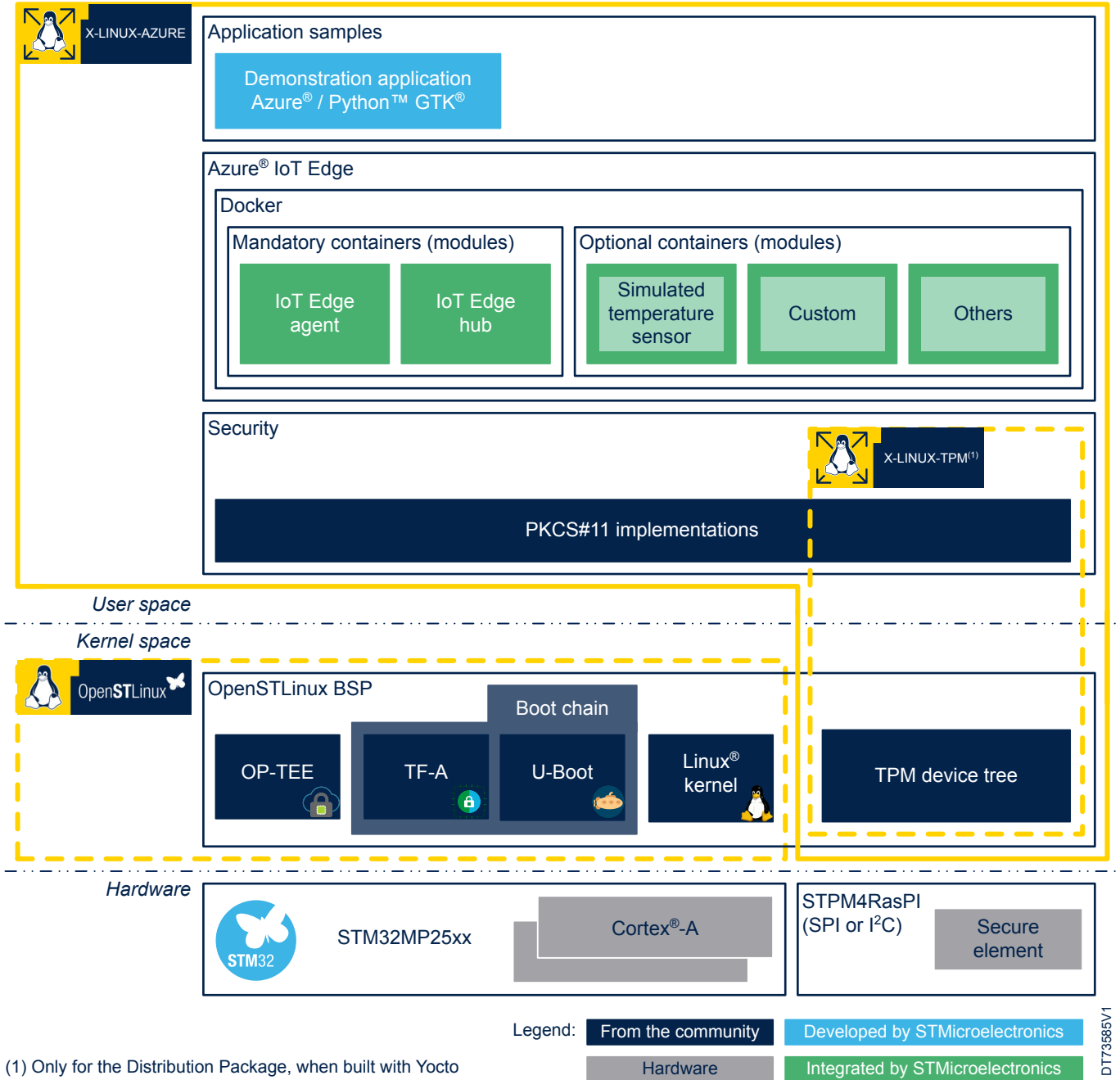
Software component license agreements

The software components provided in this package come with different license schemes. Refer to wiki.st.com/stm32mpu/wiki/X-LINUX-AZURE_licenses for details.

2 Software architecture

The top-level architecture of the X-LINUX-AZURE OpenSTLinux Expansion Package is shown in Figure 1.

Figure 1. X-LINUX-AZURE architecture



DT7355V1

Revision history

Table 1. Document revision history

Date	Revision	Changes
18-Oct-2024	1	Initial release.
06-Dec-2024	2	Updated: <ul style="list-style-type: none">Ecosystem 6.0 Added: <ul style="list-style-type: none">Support for STM32MP257F-DK

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