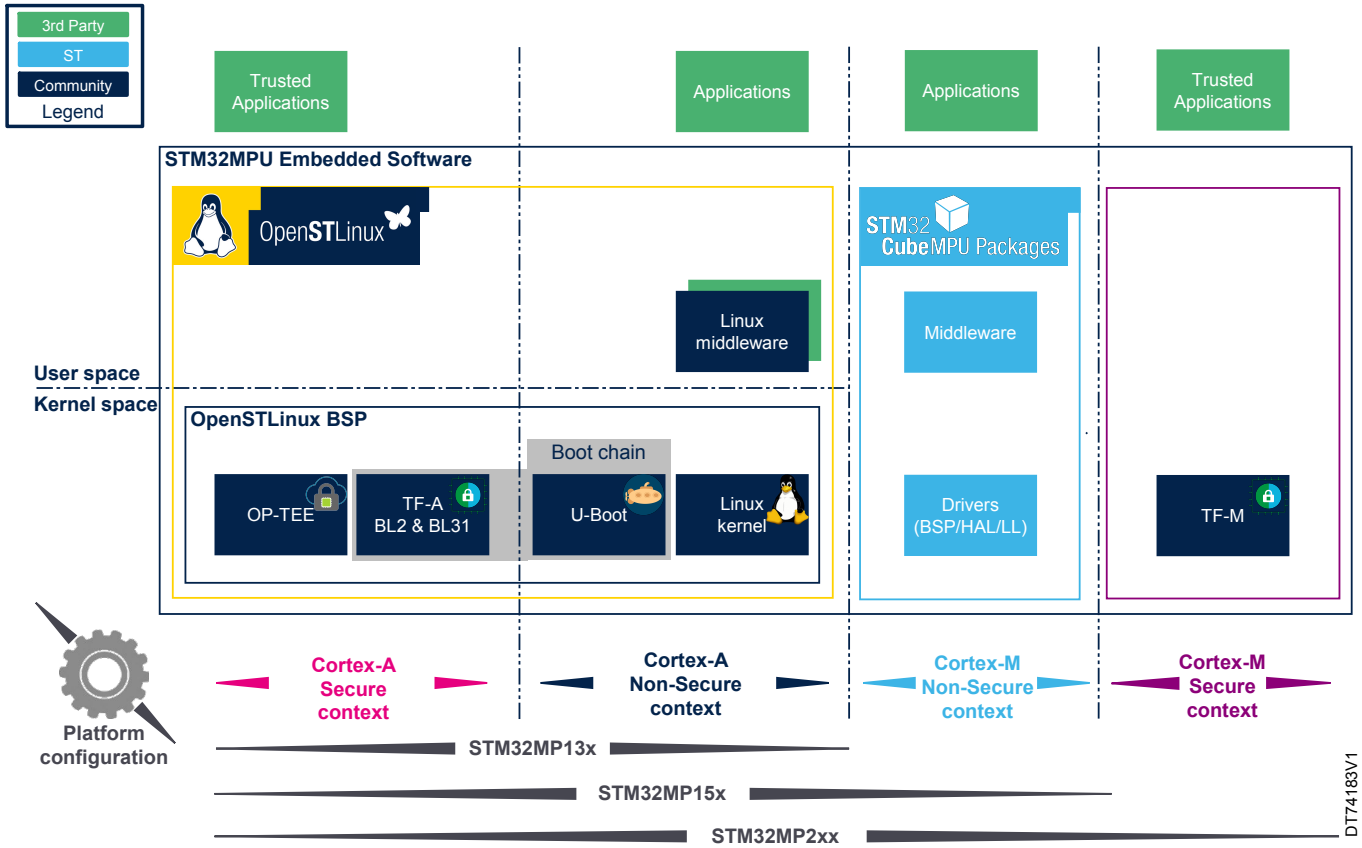


STM32MP2 OpenSTLinux Distribution Package



DT50995V1

Features

- OpenSTLinux distribution, running on the Arm® Cortex®-A
 - OpenSTLinux BSP with:
 - Boot chain based on TF-A BL2 and U-Boot
 - Secure monitor based on TF-A BL31 or OP-TEE depending on Cortex®-A architecture, running on the Arm® Cortex®-A in secure mode
 - OP-TEE secure OS running on the Arm® Cortex®-A in secure mode
 - Linux® kernel running on the Arm® Cortex®-A in non-secure mode
 - Linux middleware relying on the BSP to provide API to the applications that typically interacts with the user via the display or the touchscreen
 - On OP-TEE side, the trusted applications (TA) relying on the OP-TEE core for secrets operations (not visible from the Linux and other software components)
- Composition of the firmware running on Arm® Cortex®-M and depending on Arm® Cortex®-M architecture:
 - STM32Cube MPU package running on the Arm® Cortex®-M non secure mode: based on HAL drivers and middleware, like STM32 microcontrollers, completed with coprocessor management for interaction with the Cortex-A
 - Trusted firmware Cortex-M secure OS running on the Arm® Cortex®-M in secure mode: provides local secure services to STM32Cube MPU package

Description

STM32MP2Distrib is a Linux® distribution based on the OpenEmbedded build framework.

For the OpenSTLinux distribution (development on Arm Cortex-A processor), it includes the following collection of software components in source code: the BSP (Linux kernel, U-Boot, TF-A, OP-TEE), and the application frameworks (Wayland-Weston, Gstreamer, ALSA).

For the STM32Cube MPU package (development on Arm Cortex-M processor, it includes all pieces of software in source code: BSP, HAL, middlewares and applications.

For the trusted firmware Cortex-M secure OS running on the Arm® Cortex®-M in secure mode, it includes all pieces of software in source code.

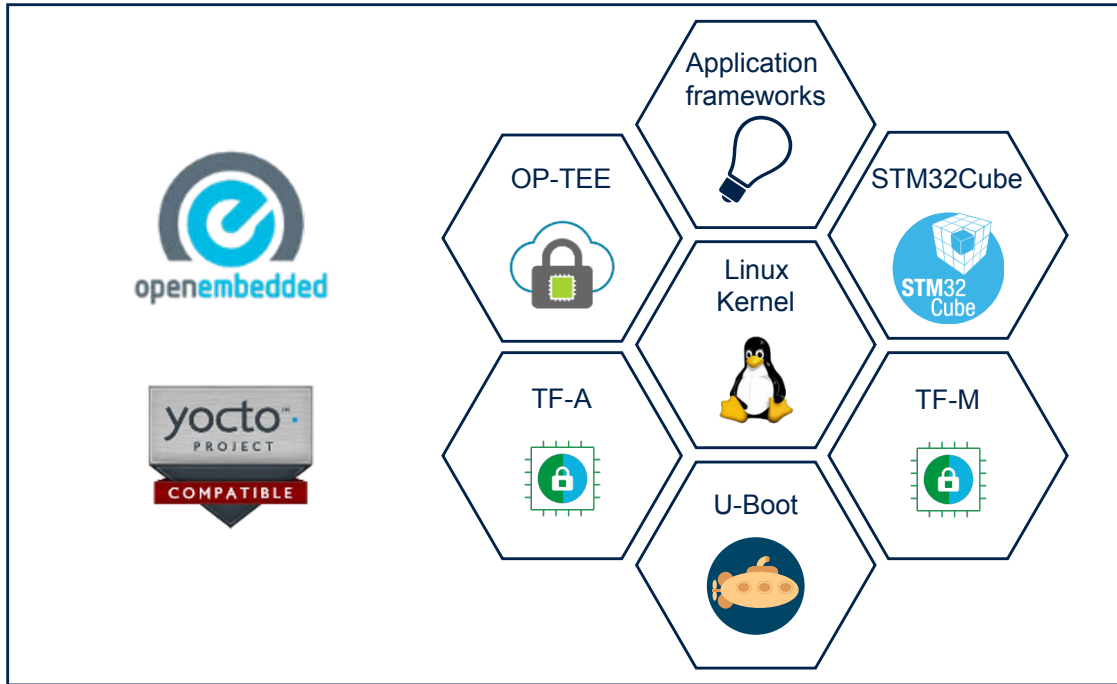
1 General information

The STM32MP2Distrib package runs on STM32 MPUs based on Arm® Cortex® cores.

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



Figure 1. STM32MPU Embedded Software Distribution Package



DT74185V1

1.1 Ordering information

STM32MP2Distrib is available for free download from the www.st.com website.

1.2 License

STM32MP2Distrib is delivered under the *Mix Ultimate Liberty+OSS+3rd-party V1* software license agreement (SLA0048).

Revision history

Table 1. Document revision history

Date	Version	Changes
26-Jun-2024	1	Initial release.

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