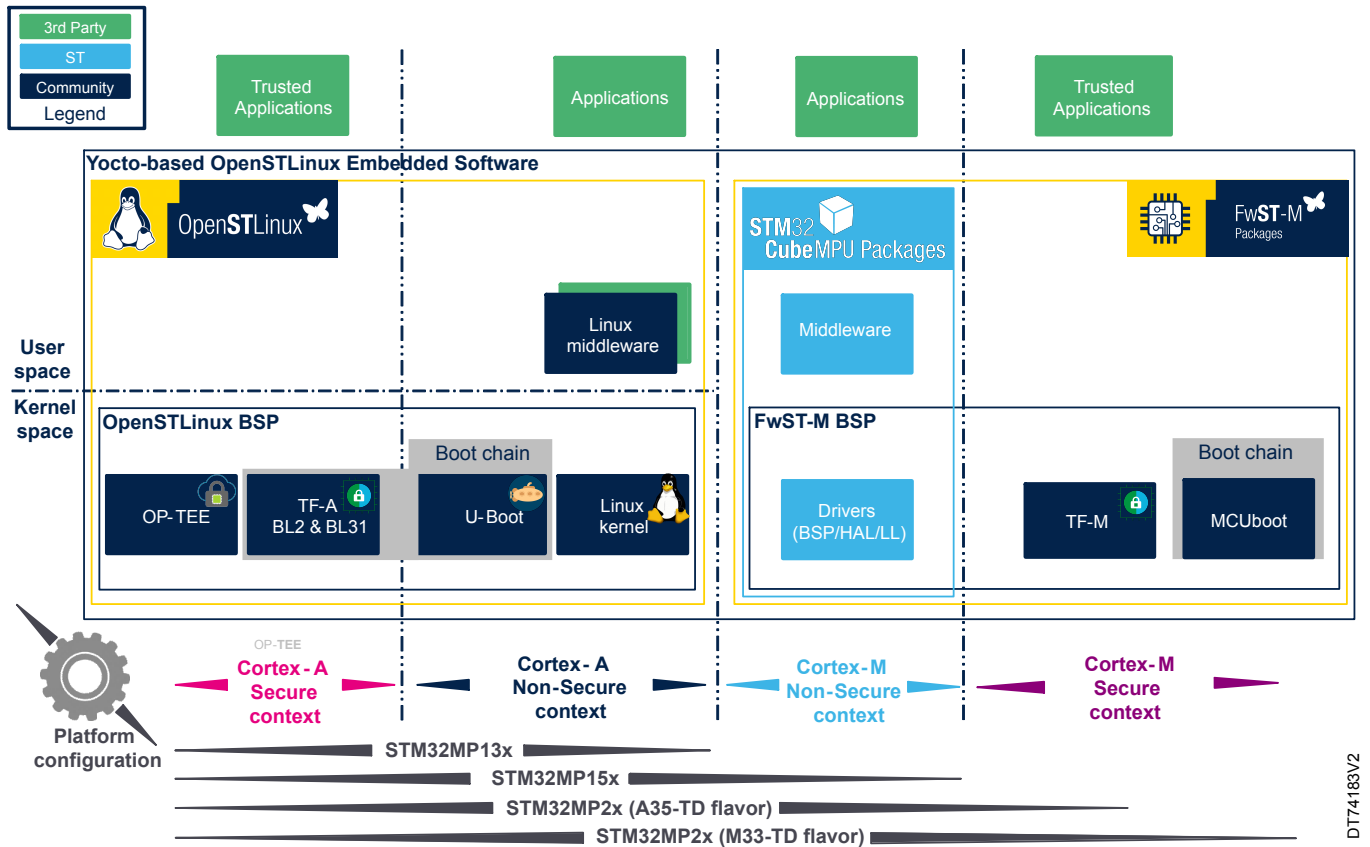


STM32MP2 OpenSTLinux Distribution Package



Product status link

[STM32MP2Distrib](#)



DT50995V1

Features

- The OpenSTLinux distribution, running on the Arm® Cortex®-A, includes:
 - The OpenSTLinux BSP with:
 - The boot chain based on TF-A BL2 (FSBL-A) and U-Boot (SSBL-A)
 - The secure monitor based on TF-A BL31 or OP-TEE depending on Cortex®-A architecture, running on the Arm® Cortex®-A in secure mode
 - The OP-TEE secure OS running on the Arm® Cortex®-A in secure mode
 - The Linux® kernel running on the Arm® Cortex®-A in nonsecure mode
 - The Linux middleware relies on the BSP to provide API to the applications that typically interact with the user via the display, the touchscreen, etc.
 - On OP-TEE side, the trusted applications (TA) relies on the OP-TEE core for secrets operations (not visible from the Linux and other software components)
- The FwST-M packages that are composed of the firmwares running on Arm® Cortex®-M depends on the Arm® Cortex®-M architecture. It includes:
 - The Fw-ST BSP with:
 - The boot chain based on MCUboot, the FSBL-M (for M33-TD flavor only)
 - The trusted firmware Cortex®-M (TF-M) running on the Arm® Cortex®-M in secure mode
 - The STM32Cube MPU package running on the Arm® Cortex®-M nonsecure mode: it is based on HAL drivers
 - The STM32Cube MPU package running on the Arm® Cortex®-M nonsecure mode: it is based on HAL drivers and middleware, like STM32 microcontrollers, completed with coprocessor management for interaction with the Cortex®-A. The trusted firmware Cortex®-M secure OS running on the Arm® Cortex®-M in secure mode: it provides local secure services to the 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.

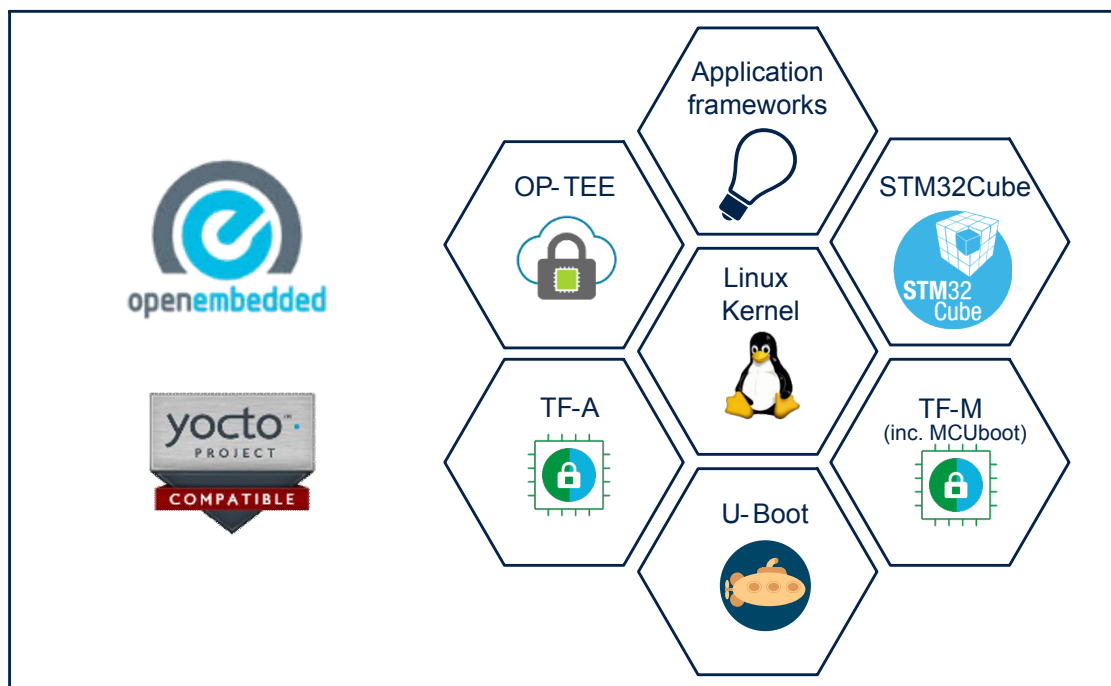
1 General information

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.

arm

Figure 1. STM32MP2 Embedded Software Distribution Package



DT74185V2

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.
02-Jul-2025	2	Updated: <ul style="list-style-type: none">• Section Cover image• Section Features• Figure 1. STM32MP2 Embedded Software Distribution Package

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