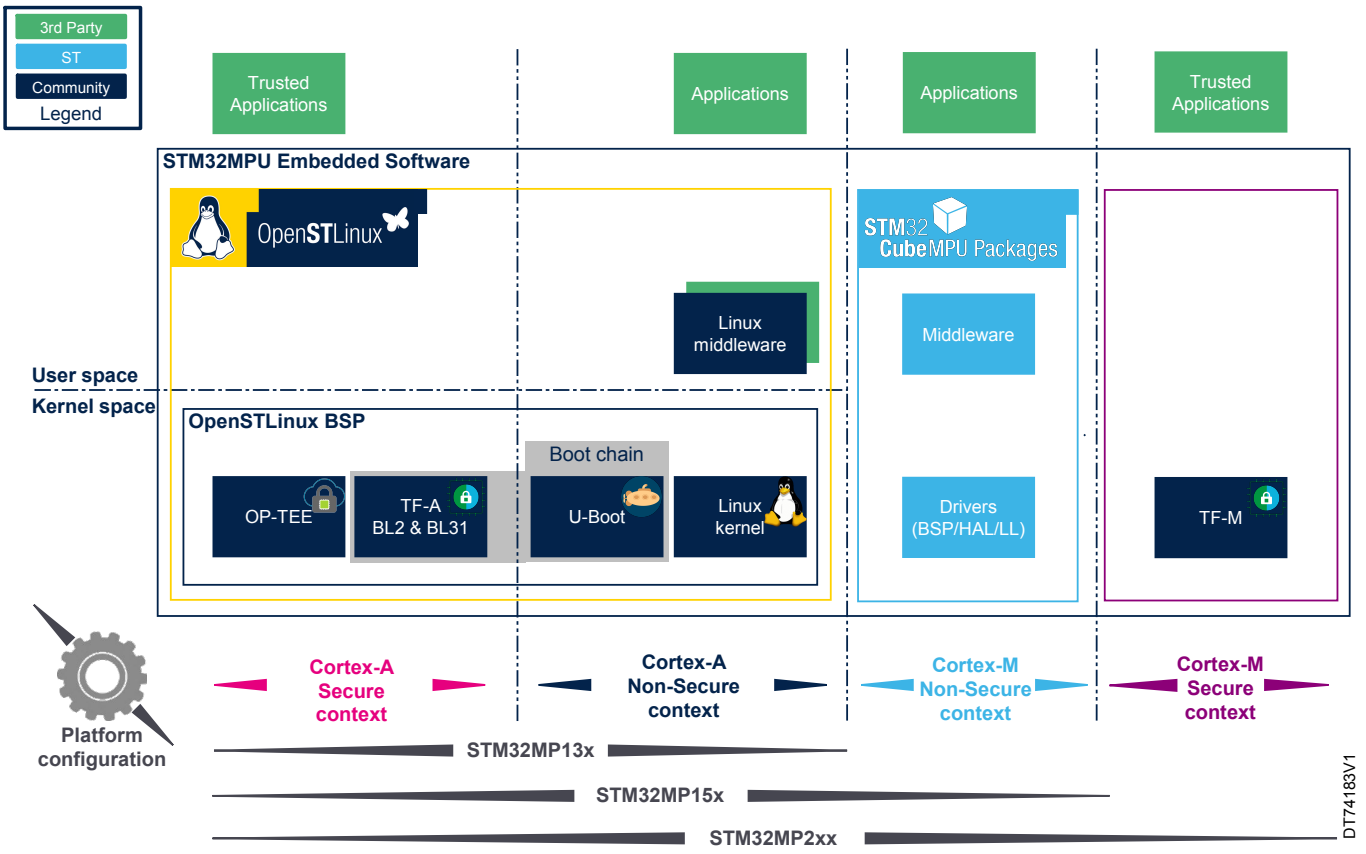
STM32MP2 OpenSTLinux Developer Package



Product status link
STM32MP2Dev

Linux

STM32 Cube

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

This Developer Package provides elements for the OpenSTLinux distribution (development on Arm® Cortex®-A processor). It includes the software development kit (SDK software development kit), based on Yocto SDK software development kit, for cross-development on an host PC.

It also includes the following pieces of software in source code: Linux® kernel, gcnano-driver, U-Boot, trusted firmware-A (TF-A), open source trusted execution environment (OP-TEE), external device tree.

Note that the application frameworks for the OpenSTLinux distribution are not available as source code in this package.

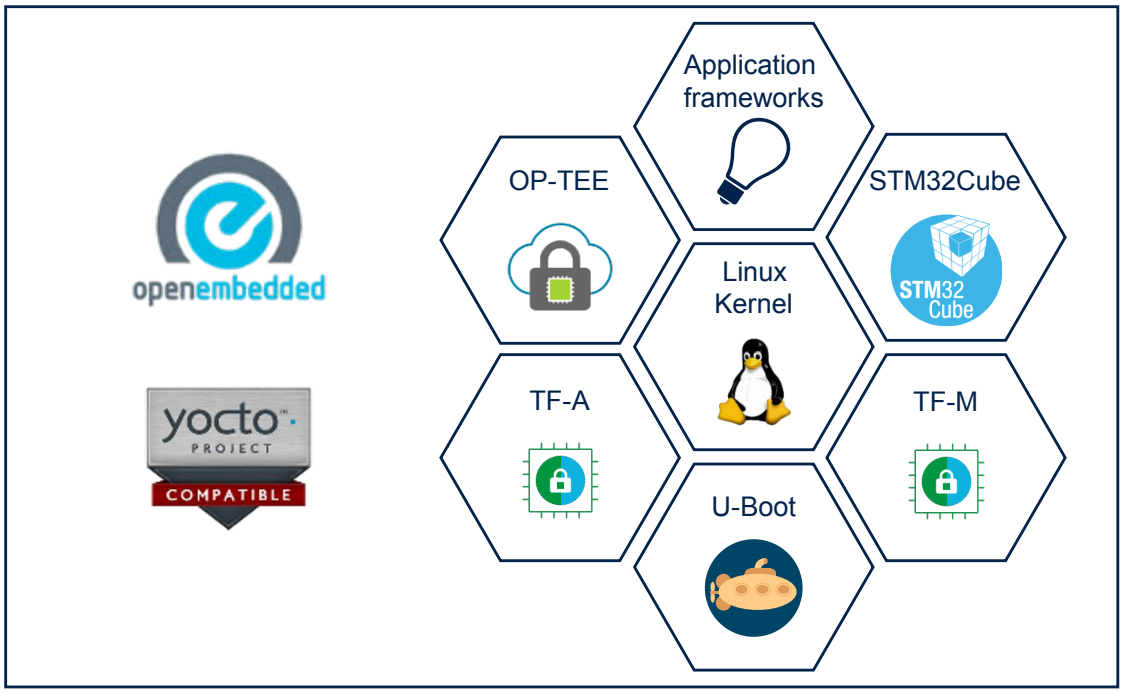
1 General information

The STM32MP2Dev package runs on STM32 Arm® Cortex® MPUs based on Arm® cores.

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

arm

Figure 1. STM32MP2 Developer Package OpenSTLinux



1.1 Ordering information

STM32MP2Dev is available for free download from the *www.st.com* website.

1.2 License

STM32MP2Dev 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
27-Jun-2024	1	Initial release.