



## STM32MPU distribution for Android



---

## Contents

---

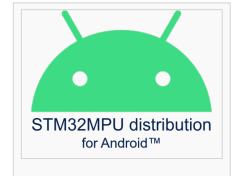
1. STM32MPU distribution for Android .....	3
2. Boot chain overview .....	5
3. Category:STM32MPU Embedded Software distribution for Android .....	5
4. OP-TEE overview .....	6
5. TF-A overview .....	6
6. U-Boot overview .....	6



The **STM32MPU distribution for Android™** runs on Arm®Cortex®-A processors. It is a subset of the STM32MPU Embedded Software distribution for Android.

It includes the following collection of software components:

- The **OpenSTLinux BSP** that offers services for the application frameworks in the same context:
  - The **boot chain** based on **TF-A** and **U-Boot**.
  - The **OP-TEE** secure OS running on the Cortex-A core in Secure mode.
  - The **Linux® kernel** running on the Arm® Cortex®-A core in Non-secure mode.
- **Application frameworks** that rely on the services provided by the **OpenSTLinux BSP** to provide specific functionalities (such as code libraries, APIs and tool sets) to ease the development of software applications:
  - **OP-TEE** application frameworks running in the secure OS user space (eg TEE Internal core API for the development of Trusted Applications (TA)).
  - **Android** application frameworks running in Linux OS user space (see AOSP<sup>[1]</sup> for more details).



The **OpenSTLinux BSP for Android** has some specificities:

- The Linux kernel source is based on the Common Kernel available in AOSP<sup>[2]</sup>.
- The Linux kernel configuration is based on the reference configuration available in AOSP<sup>[3]</sup>.

**Android** application frameworks are based on the AOSP platform manifest<sup>[4]</sup>. By default, one of the Google tags<sup>[5]</sup> is used as a reference.

The **Google services** (ex: Cast, Drive, Maps...) are neither embedded nor validated within this **STM32MPU distribution for Android™**.



---

## 1 How to get the software for this distribution?

---



The STM32MPU distribution for Android™ is not yet available in the v3 ecosystem releases: please refer to the [STM32MPU distribution for Android page for the v2 ecosystem releases \(in archived wiki\)](#).

The **STM32MPU distribution for Android™** is available through the three Packages (Starter, Developer, and Distribution) of the STM32MPU Embedded Software distribution for Android.



## 2 References

- <https://source.android.com/>
- <https://android.googlesource.com/kernel/common/>
- <https://android.googlesource.com/kernel/configs/>
- <https://android.googlesource.com/platform/manifest/>
- <https://source.android.com/setup/start/build-numbers#source-code-tags-and-builds>

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



Cortex®

Board support package

Operating System

Linux® is a registered trademark of Linus Torvalds.

Open Portable Trusted Execution Environment

Trusted Execution Environment

Application programming interface

Trusted Application

Android Open Source Project

Stable: 12.03.2021 - 11:29 / Revision: 12.03.2021 - 11:15

**Invalid target:** no reviewed revision corresponds to the given ID.

[Return to Boot chain overview](#)

Stable: 17.06.2020 - 15:27 / Revision: 16.01.2020 - 13:36

**Invalid target:** no reviewed revision corresponds to the given ID.

Return to Category:STM32MPU Embedded Software distribution for Android.



---

## Subcategories

---

This category has the following 2 subcategories, out of 2 total.

### A

- [Android distribution \(2 P\)](#)

### S

- [STM32Cube MPU Package \(3 P\)](#)  
Stable: 13.05.2020 - 08:56 / Revision: 13.05.2020 - 08:54

**Invalid target:** no reviewed revision corresponds to the given ID.

[Return to OP-TEE overview.](#)  
Stable: 22.04.2021 - 11:23 / Revision: 09.04.2021 - 13:17

**Invalid target:** no reviewed revision corresponds to the given ID.

[Return to TF-A overview.](#)  
Stable: 01.03.2021 - 10:58 / Revision: 01.03.2021 - 10:55

**Invalid target:** no reviewed revision corresponds to the given ID.

[Return to U-Boot overview.](#)