



STM32MP1 Starter Package - images



This article provides the following information:

- How to download and install the **latest** image (binaries) for STM32MP1 boards
- Where to find the associated release note
- Where to find the previous releases (archives)



To use the image efficiently, please read the Starter Package article relative to your board: Category:Starter Package



1 STM32MP15-Ecosystem-v1.1.0 release

- The STM32MP1 image (binaries) is delivered through one tarball file named
 - en.FLASH-stm32mp1-openstlinux-4.19-thud-mp1-19-10-09.tar.xz** for STM32MP157C-EV1 and STM32MP157X-DKX boards
- Download and install the STM32MP1 image (binaries):

By downloading this software package, you agree to be bound to the terms of the [software license agreement \(SLA\)](#). The detailed content licenses can be found [here](#).

STM32MP1 Starter Package image - STM32MP15-Ecosystem-v1.1.0 release	
Download	<p>2</p> <p>You need to be logged on to my.st.com before accessing the following link: en.FLASH-stm32mp1-openstlinux-4.19-thud-mp1-19-10-09.tar.xz</p>
Installation	<ul style="list-style-type: none"> Go to the host PC directory in which you want to install the Starter Package (<Starter Package installation directory>); if you follow the proposition to organize the working directory, this means: <pre style="border: 1px dashed black; padding: 5px;">\$ cd <working directory path>/Starter-Package</pre> <ul style="list-style-type: none"> Download the tarball file in this directory Uncompress the tarball file to get the binaries for the different partitions of the image, and the Flash layout files: <pre style="border: 1px dashed black; padding: 5px;">\$ tar xvf en.FLASH-stm32mp1-openstlinux-4.19-thud-mp1-19-10-09.tar.xz</pre>
Release note	<p>Details of the content of this software package are available in the associated STM32MP15 ecosystem release note.</p> <p>If you are interested in older releases, please have a look into the section Archives</p>

- The binaries and the Flash layout files are in the <Starter Package installation directory>/openstlinux-4.19-thud-mp1-19-10-09/images/stm32mp1/ directory:

```
stm32mp1
├── flashlayout_st-image-weston
│   (description of the partitions) for the supported Flash devices and boards
│   ├── FlashLayout_sdcard_stm32mp157a-dk1-basic.tsv
│   │   microSD card and basic boot chain → STM32MP15 Discovery kits
│   │   Flash layout file for
│   ├── FlashLayout_sdcard_stm32mp157a-dk1-optee.tsv
│   │   microSD card and optee boot chain → STM32MP15 Discovery kits
│   │   Flash layout file for
│   ├── FlashLayout_sdcard_stm32mp157a-dk1-trusted.tsv
│   │   microSD card and trusted boot chain (recommended setup) → STM32MP15 Discovery kits
│   │   Flash layout file for
│   ├── FlashLayout_sdcard_stm32mp157c-dk2-basic.tsv
│   │   microSD card and basic boot chain → STM32MP15 Discovery kits
│   │   Flash layout file for
│   └── FlashLayout_sdcard_stm32mp157c-dk2-optee.tsv
│       Flash layout file for
```



microSD card and optee boot chain → STM32MP15 Discovery kits	
FlashLayout_sdcard_stm32mp157c-dk2-trusted.tsv	Flash layout file for
microSD card and trusted boot chain (recommended setup) → STM32MP15 Discovery kits	
FlashLayout_emmc_stm32mp157c-ev1-optee.tsv	Flash layout file for eMMC
and optee boot chain → STM32MP15 Evaluation boards	
FlashLayout_emmc_stm32mp157c-ev1-trusted.tsv	Flash layout file for eMMC
and trusted boot chain → STM32MP15 Evaluation boards	
FlashLayout_nand-4-256_stm32mp157c-ev1-optee.tsv	Flash layout file for
NAND Flash and optee boot chain → STM32MP15 Evaluation boards	
FlashLayout_nand-4-256_stm32mp157c-ev1-trusted.tsv	Flash layout file for
NAND Flash and trusted boot chain → STM32MP15 Evaluation boards	
FlashLayout_nor-emmc_stm32mp157c-ev1-optee.tsv	Flash layout file for NOR
Flash (and eMMC) and optee boot chain → STM32MP15 Evaluation boards	
FlashLayout_nor-emmc_stm32mp157c-ev1-trusted.tsv	Flash layout file for NOR
Flash (and eMMC) and trusted boot chain → STM32MP15 Evaluation boards	
FlashLayout_nor-nand-4-256_stm32mp157c-ev1-optee.tsv	Flash layout file for NOR
Flash (and NAND Flasdh) and optee boot chain → STM32MP15 Evaluation boards	
FlashLayout_nor-nand-4-256_stm32mp157c-ev1-trusted.tsv	Flash layout file for NOR
Flash (and NAND Flasdh) and trusted boot chain → STM32MP15 Evaluation boards	
FlashLayout_nor-sdcard_stm32mp157c-ev1-optee.tsv	Flash layout file for NOR
Flash (and microSD card) and optee boot chain → STM32MP15 Evaluation boards	
FlashLayout_nor-sdcard_stm32mp157c-ev1-trusted.tsv	Flash layout file for NOR
Flash (and microSD card) and trusted boot chain → STM32MP15 Evaluation boards	
FlashLayout_sdcard_stm32mp157c-ev1-basic.tsv	Flash layout file for
microSD card and basic boot chain → STM32MP15 Evaluation boards	
FlashLayout_sdcard_stm32mp157c-ev1-optee.tsv	Flash layout file for
microSD card and optee boot chain → STM32MP15 Evaluation boards	
FlashLayout_sdcard_stm32mp157c-ev1-trusted.tsv	Flash layout file for
microSD card and trusted boot chain (recommended setup) → STM32MP15 Evaluation boards	
scripts	
create_sdcard_from_flashlayout.sh	
st-image-bootfs-openstlinux-weston-stm32mp1.ext4	Binary for <i>bootfs</i>
partition	
st-image-bootfs-openstlinux-weston-stm32mp1.manifest	
st-image-userfs-openstlinux-weston-stm32mp1.ext4	Binary for <i>userfs</i>
partition	
st-image-userfs-openstlinux-weston-stm32mp1.manifest	
st-image-vendorfs-openstlinux-weston-stm32mp1.ext4	Binary for <i>vendorfs</i>
partition	
st-image-vendorfs-openstlinux-weston-stm32mp1.manifest	
st-image-weston-openstlinux-weston-stm32mp1.ext4	Binary for <i>rootfs</i>
partition	
st-image-weston-openstlinux-weston-stm32mp1.license	
st-image-weston-openstlinux-weston-stm32mp1-license_content.html	
st-image-weston-openstlinux-weston-stm32mp1.manifest	
st-image-weston-openstlinux-weston-stm32mp1_nand_4_256_multivolume.ubi	
tee-header_v2-stm32mp157a-dk1-optee.stm32	
tee-header_v2-stm32mp157c-dk2-optee.stm32	
tee-header_v2-stm32mp157c-ev1-optee.stm32	
tee-pageable_v2-stm32mp157a-dk1-optee.stm32	
tee-pageable_v2-stm32mp157c-dk2-optee.stm32	
tee-pageable_v2-stm32mp157c-ev1-optee.stm32	
tee-pager_v2-stm32mp157a-dk1-optee.stm32	
tee-pager_v2-stm32mp157c-dk2-optee.stm32	
tee-pager_v2-stm32mp157c-ev1-optee.stm32	
tf-a-stm32mp157c-dk1-optee.stm32	TF-A binary for <i>FSBL</i>
partition (optee boot chain) → STM32MP15 Discovery kits	
tf-a-stm32mp157c-dk1-trusted.stm32	TF-A binary for <i>FSBL</i>
partition (trusted boot chain) → STM32MP15 Discovery kits	
tf-a-stm32mp157c-dk2-optee.stm32	TF-A binary for <i>FSBL</i>
partition (optee boot chain) → STM32MP15 Discovery kits	
tf-a-stm32mp157c-dk2-trusted.stm32	TF-A binary for <i>FSBL</i>
partition (trusted boot chain) → STM32MP15 Discovery kits	
tf-a-stm32mp157c-ev1-optee.stm32	TF-A binary for <i>FSBL</i>
partition (optee boot chain) → STM32MP15 Evaluation boards	
tf-a-stm32mp157c-ev1-trusted.stm32	TF-A binary for <i>FSBL</i>



partition (trusted boot chain) → STM32MP15 Evaluation boards	
└─ u-boot-spl.stm32-stm32mp157c-dk1-basic	U-Boot binary for <i>FSBL</i>
partition (basic boot chain) → STM32MP15 Discovery kits	
└─ u-boot-spl.stm32-stm32mp157c-dk2-basic	U-Boot binary for <i>FSBL</i>
partition (basic boot chain) → STM32MP15 Discovery kits	
└─ u-boot-spl.stm32-stm32mp157c-ev1-basic	U-Boot binary for <i>FSBL</i>
partition (basic boot chain) → STM32MP15 Evaluation boards	
└─ u-boot-stm32mp157c-dk1-basic.img	U-Boot binary for <i>SSBL</i>
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└─ u-boot-stm32mp157c-ev1-basic.img	U-Boot binary for <i>SSBL</i>
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└─ u-boot-stm32mp157c-ev1-trusted.stm32	U-Boot binary for <i>SSBL</i>
partition (trusted boot chain) → STM32MP15 Evaluation boards	
└─ u-boot-stm32mp157c-ev1-optee.stm32	U-Boot binary for <i>SSBL</i>
partition (optee boot chain) → STM32MP15 Evaluation boards	



2 Archives

2.1 STM32MP15-Ecosystem-v1.0.0 release

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Release note	Details of the content of this software package are available in the associated STM32MP15 ecosystem release note .



Stm32mp157c-dk2: The display may not work at all for some of them. You need to use the patches delivered [here](#)

- The binaries and the Flash layout files are in the <Starter Package installation directory>/openstlinux-4.19-thud-mp1-19-02-20/images/stm32mp1/ directory:

```
stm32mp1
├── flashlayout_st-image-weston
│   └── FlashLayout_sdcard_stm32mp157a-dk1-basic.tsv
│       └── FlashLayout_sdcard_stm32mp157a-dk1-optee.tsv
```

(description of the partitions) for the supported Flash devices and boards

microSD card and basic boot chain → STM32MP15 Discovery kits

microSD card and optee boot chain → STM32MP15 Discovery kits



FlashLayout_sdcard_stm32mp157a-dk1-trusted.tsv	Flash layout file for
microSD card and trusted boot chain → STM32MP15 Discovery kits	
FlashLayout_emmc_stm32mp157c-ev1-optee.tsv	Flash layout file for eMMC
and optee boot chain → STM32MP15 Evaluation boards	
FlashLayout_nand-4-256_stm32mp157c-ev1-optee.tsv	Flash layout file for
NAND Flash and optee boot chain → STM32MP15 Evaluation boards	
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microSD card and basic boot chain → STM32MP15 Evaluation boards	
FlashLayout_sdcard_stm32mp157c-ev1-optee.tsv	Flash layout file for
microSD card and optee	
FlashLayout_sdcard_stm32mp157c-ev1-trusted.tsv	Flash layout file for
microSD card and trusted boot chain (recommended setup) → STM32MP15 Evaluation boards	
FlashLayout_emmc_stm32mp157c-ev1-trusted.tsv	Flash layout file for eMMC
and trusted boot	
FlashLayout_nand-4-256_stm32mp157c-ev1-trusted.tsv	Flash layout file for
NAND Flash and trusted boot chain → STM32MP15 Evaluation boards	
FlashLayout_nor-emmc_stm32mp157c-ev1-trusted.tsv	Flash layout file for NOR
Flash (and eMMC) and trusted boot chain → STM32MP15 Evaluation boards	
FlashLayout_sdcard_stm32mp157c-dk2-basic.tsv	Flash layout file for
microSD card and basic boot chain → STM32MP15 Discovery kits	
FlashLayout_sdcard_stm32mp157c-dk2-optee.tsv	Flash layout file for
microSD card and optee boot chain → STM32MP15 Discovery kits	
FlashLayout_sdcard_stm32mp157c-dk2-trusted.tsv	Flash layout file for
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st-image-bootfs-openstlinux-weston-stm32mp1.manifest	
st-image-userfs-openstlinux-weston-stm32mp1.ext4	Binary for <i>userfs</i>
partition	
st-image-userfs-openstlinux-weston-stm32mp1.manifest	
st-image-vendorfs-openstlinux-weston-stm32mp1.ext4	Binary for <i>vendorfs</i>
partition	
st-image-vendorfs-openstlinux-weston-stm32mp1.manifest	
st-image-weston-openstlinux-weston-stm32mp1.ext4	Binary for <i>rootfs</i>
partition	
st-image-weston-openstlinux-weston-stm32mp1.license	
st-image-weston-openstlinux-weston-stm32mp1-license_content.html	
st-image-weston-openstlinux-weston-stm32mp1.manifest	
st-image-weston-openstlinux-weston-stm32mp1_nand_4_256_multivolume.ubi	
tee-header_v2-stm32mp157a-dk1-optee.stm32	
tee-header_v2-stm32mp157c-dk2-optee.stm32	
tee-header_v2-stm32mp157c-ev1-optee.stm32	
tee-pageable_v2-stm32mp157a-dk1-optee.stm32	
tee-pageable_v2-stm32mp157c-dk2-optee.stm32	
tee-pageable_v2-stm32mp157c-ev1-optee.stm32	
tee-pager_v2-stm32mp157a-dk1-optee.stm32	
tee-pager_v2-stm32mp157c-dk2-optee.stm32	
tee-pager_v2-stm32mp157c-ev1-optee.stm32	
tf-a-stm32mp157c-dk2-trusted.stm32	TF-A binary for <i>FSBL</i>
partition (trusted boot chain) → STM32MP15 Discovery kits	
tf-a-stm32mp157c-dk2-optee.stm32	TF-A binary for <i>FSBL</i>
partition (optee boot chain) → STM32MP15 Discovery kits	
tf-a-stm32mp157c-dk1-trusted.stm32	TF-A binary for <i>FSBL</i>
partition (trusted boot chain) → STM32MP15 Discovery kits	



— tf-a-stm32mp157c-dk1-optee.stm32	TF-A binary for <i>FSBL</i>
partition (optee boot chain) → STM32MP15 Discovery kits	
— tf-a-stm32mp157c-ev1-trusted.stm32	TF-A binary for <i>FSBL</i>
partition (trusted boot chain) → STM32MP15 Evaluation boards	
— tf-a-stm32mp157c-ev1-optee.stm32	TF-A binary for <i>FSBL</i>
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— u-boot-spl.stm32-stm32mp157c-dk1-basic	U-Boot binary for <i>FSBL</i>
partition (basic boot chain) → STM32MP15 Discovery kits	
— u-boot-spl.stm32-stm32mp157c-dk2-basic	U-Boot binary for <i>FSBL</i>
partition (basic boot chain) → STM32MP15 Discovery kits	
— u-boot-spl.stm32-stm32mp157c-ev1-basic	U-Boot binary for <i>FSBL</i>
partition (basic boot chain) → STM32MP15 Evaluation boards	
— u-boot-stm32mp157c-dk2-basic.img	U-Boot binary for <i>SSBL</i>
partition (basic boot chain) → STM32MP15 Discovery kits	
— u-boot-stm32mp157c-dk2-trusted.stm32	U-Boot binary for <i>SSBL</i>
partition (trusted boot chain) → STM32MP15 Discovery kits	
— u-boot-stm32mp157c-dk2-optee.stm32	U-Boot binary for <i>SSBL</i>
partition (optee boot chain) → STM32MP15 Discovery kits	
— u-boot-stm32mp157c-dk1-basic.img	U-Boot binary for <i>SSBL</i>
partition (basic boot chain) → STM32MP15 Discovery kits	
— u-boot-stm32mp157c-dk1-trusted.stm32	U-Boot binary for <i>SSBL</i>
partition (trusted boot chain) → STM32MP15 Discovery kits	
— u-boot-stm32mp157c-dk1-optee.stm32	U-Boot binary for <i>SSBL</i>
partition (optee boot chain) → STM32MP15 Discovery kits	
— u-boot-stm32mp157c-ev1-basic.img	U-Boot binary for <i>SSBL</i>
partition (basic boot chain) → STM32MP15 Evaluation boards	
— u-boot-stm32mp157c-ev1-trusted.stm32	U-Boot binary for <i>SSBL</i>
partition (trusted boot chain) → STM32MP15 Evaluation boards	
— u-boot-stm32mp157c-ev1-optee.stm32	U-Boot binary for <i>SSBL</i>
partition (optee boot chain) → STM32MP15 Evaluation boards	

former spelling for eMMC ('e' in italic)

Trusted Firmware for Arm Cortex-A

First Stage Boot Loader

Das U-Boot -- the Universal Boot Loader (see [U-Boot_overview](#))

Second Stage Boot Loader