STM32MP1 Starter Package - images

Contents

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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	[2] 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

Installation	• 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:
	`$ cd <working directory path>/Starter-Package`
	• 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:
	`$ tar xvf en.FLASH-stm32mp1-openstlinux-4.19-thud-mp1-19-10-09.tar.xz`

Release note	Details of the content of this software package are available in the **associated** STM32MP15 ecosystem release note. If you are interested in older releases, please have a look into the section Archives

- 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                                  Flash layout files
(description of the partitions) for the supported Flash devices and boards
│   ├── FlashLayout_sdcard_stm32mp157a-dk1-basic.tsv             Flash layout file for
microSD card and basic boot chain → STM32MP15 Discovery kits
│   ├── FlashLayout_sdcard_stm32mp157a-dk1-optee.tsv             Flash layout file for
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│   ├── FlashLayout_sdcard_stm32mp157a-dk1-trusted.tsv           Flash layout file for
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microSD card and basic boot chain → STM32MP15 Discovery kits
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microSD card and optee boot chain → STM32MP15 Discovery kits
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├── st-image-userfs-openstlinux-weston-stm32mp1.ext4            Binary for userfs
partition
├── st-image-userfs-openstlinux-weston-stm32mp1.manifest
├── st-image-vendorfs-openstlinux-weston-stm32mp1.ext4          Binary for vendorfs
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├── st-image-vendorfs-openstlinux-weston-stm32mp1.manifest
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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
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├── 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 FSBL
partition (optee boot chain) → STM32MP15 Discovery kits
├── tf-a-stm32mp157c-dk1-trusted.stm32                          TF-A binary for FSBL
partition (trusted boot chain) → STM32MP15 Discovery kits
├── tf-a-stm32mp157c-dk2-optee.stm32                            TF-A binary for FSBL
partition (optee boot chain) → STM32MP15 Discovery kits
├── tf-a-stm32mp157c-dk2-trusted.stm32                          TF-A binary for FSBL
partition (trusted boot chain) → STM32MP15 Discovery kits
├── tf-a-stm32mp157c-ev1-optee.stm32                            TF-A binary for FSBL
partition (optee boot chain) → STM32MP15 Evaluation boards
├── tf-a-stm32mp157c-ev1-trusted.stm32                          TF-A binary for FSBL
```

```
partition (trusted boot chain) → STM32MP15 Evaluation boards
├── u-boot-spl.stm32-stm32mp157c-dk1-basic                    U-Boot binary for FSBL
partition (basic boot chain) → STM32MP15 Discovery kits
├── u-boot-spl.stm32-stm32mp157c-dk2-basic                    U-Boot binary for FSBL
partition (basic boot chain) → STM32MP15 Discovery kits
├── u-boot-spl.stm32-stm32mp157c-ev1-basic                    U-Boot binary for FSBL
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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

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```

```
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```

former spelling for e•MMC ('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

Stable: 17.06.2020 - 15:27 / Revision: 16.01.2020 - 13:43

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│   ├── 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 bootfs
partition
├── st-image-bootfs-openstlinux-weston-stm32mp1.manifest
├── st-image-userfs-openstlinux-weston-stm32mp1.ext4            Binary for userfs
partition
├── st-image-userfs-openstlinux-weston-stm32mp1.manifest
├── st-image-vendorfs-openstlinux-weston-stm32mp1.ext4          Binary for vendorfs
partition
├── st-image-vendorfs-openstlinux-weston-stm32mp1.manifest
├── st-image-weston-openstlinux-weston-stm32mp1.ext4            Binary for rootfs
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 FSBL
partition (optee boot chain) → STM32MP15 Discovery kits
├── tf-a-stm32mp157c-dk1-trusted.stm32                          TF-A binary for FSBL
partition (trusted boot chain) → STM32MP15 Discovery kits
├── tf-a-stm32mp157c-dk2-optee.stm32                            TF-A binary for FSBL
partition (optee boot chain) → STM32MP15 Discovery kits
├── tf-a-stm32mp157c-dk2-trusted.stm32                          TF-A binary for FSBL
partition (trusted boot chain) → STM32MP15 Discovery kits
├── tf-a-stm32mp157c-ev1-optee.stm32                            TF-A binary for FSBL
partition (optee boot chain) → STM32MP15 Evaluation boards
├── tf-a-stm32mp157c-ev1-trusted.stm32                          TF-A binary for FSBL
```

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

2 Archives

2.1 STM32MP15-Ecosystem-v1.0.0 release

- The STM32MP1 image (binaries) is delivered through one tarball file named
  - **en.FLASH-stm32mp1-openstlinux-4.19-thud-mp1-19-02-20.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-v1.0.0 release
Download	You need to be logged on to *my.st.com* before accessing the following link: en.FLASH-stm32mp1-openstlinux-4.19-thud-mp1-19-02-20.tar.xz

Installation	• 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:
	`$ cd <working directory path>/Starter-Package`
	• 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:
	`$ tar xvf en.FLASH-stm32mp1-openstlinux-4.19-thud-mp1-19-02-20.tar.xz`

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                              Flash layout files
(description of the partitions) for the supported Flash devices and boards
│   ├── FlashLayout_sdcard_stm32mp157a-dk1-basic.tsv         Flash layout file for
microSD card and basic boot chain → STM32MP15 Discovery kits
│   ├── FlashLayout_sdcard_stm32mp157a-dk1-optee.tsv         Flash layout file for
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
|   ├── FlashLayout_nor-emmc_stm32mp157c-ev1-optee.tsv          Flash layout file for NOR
Flash (and eMMC) and optee 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
|   ├── 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
microSD card and trusted boot chain (recommended setup) → STM32MP15 Discovery kits
├── scripts
|   └── create_sdcard_from_flashlayout.sh
├── st-image-bootfs-openstlinux-weston-stm32mp1.ext4            Binary for bootfs
partition
├── st-image-bootfs-openstlinux-weston-stm32mp1.manifest
├── st-image-userfs-openstlinux-weston-stm32mp1.ext4            Binary for userfs
partition
├── st-image-userfs-openstlinux-weston-stm32mp1.manifest
├── st-image-vendorfs-openstlinux-weston-stm32mp1.ext4          Binary for vendorfs
partition
├── st-image-vendorfs-openstlinux-weston-stm32mp1.manifest
├── st-image-weston-openstlinux-weston-stm32mp1.ext4            Binary for rootfs
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 FSBL
partition (trusted boot chain) → STM32MP15 Discovery kits
├── tf-a-stm32mp157c-dk2-optee.stm32                            TF-A binary for FSBL
partition (optee boot chain) → STM32MP15 Discovery kits
├── tf-a-stm32mp157c-dk1-trusted.stm32                          TF-A binary for FSBL
partition (trusted boot chain) → STM32MP15 Discovery kits
.
```

```
├── tf-a-stm32mp157c-dk1-optee.stm32                    TF-A binary for FSBL
partition (optee boot chain) → STM32MP15 Discovery kits
├── tf-a-stm32mp157c-ev1-trusted.stm32                  TF-A binary for FSBL
partition (trusted boot chain) → STM32MP15 Evaluation boards
├── tf-a-stm32mp157c-ev1-optee.stm32                    TF-A binary for FSBL
partition (optee boot chain) → STM32MP15 Evaluation boards
├── u-boot-spl.stm32-stm32mp157c-dk1-basic              U-Boot binary for FSBL
partition (basic boot chain) → STM32MP15 Discovery kits
├── u-boot-spl.stm32-stm32mp157c-dk2-basic              U-Boot binary for FSBL
partition (basic boot chain) → STM32MP15 Discovery kits
├── u-boot-spl.stm32-stm32mp157c-ev1-basic              U-Boot binary for FSBL
partition (basic boot chain) → STM32MP15 Evaluation boards
├── u-boot-stm32mp157c-dk2-basic.img                    U-Boot binary for SSBL
partition (basic boot chain) → STM32MP15 Discovery kits
├── u-boot-stm32mp157c-dk2-trusted.stm32                U-Boot binary for SSBL
partition (trusted boot chain) → STM32MP15 Discovery kits
├── u-boot-stm32mp157c-dk2-optee.stm32                  U-Boot binary for SSBL
partition (optee boot chain) → STM32MP15 Discovery kits
├── u-boot-stm32mp157c-dk1-basic.img                    U-Boot binary for SSBL
partition (basic boot chain) → STM32MP15 Discovery kits
├── u-boot-stm32mp157c-dk1-trusted.stm32                U-Boot binary for SSBL
partition (trusted boot chain) → STM32MP15 Discovery kits
├── u-boot-stm32mp157c-dk1-optee.stm32                  U-Boot binary for SSBL
partition (optee boot chain) → STM32MP15 Discovery kits
├── u-boot-stm32mp157c-ev1-basic.img                    U-Boot binary for SSBL
partition (basic boot chain) → STM32MP15 Evaluation boards
├── u-boot-stm32mp157c-ev1-trusted.stm32                U-Boot binary for SSBL
partition (trusted boot chain) → STM32MP15 Evaluation boards
└── u-boot-stm32mp157c-ev1-optee.stm32                  U-Boot binary for SSBL
partition (optee boot chain) → STM32MP15 Evaluation boards
```

former spelling for e•MMC ('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

Stable: 03.11.2020 - 08:53 / Revision: 03.11.2020 - 08:53

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