



STM32MP1 Developer Package - debug symbol files



A quality version of this page, approved on 17 November 2021, was based off this revision.

This article provides the following information:



- How to download and install the **latest** debug symbol files (for Linux kernel, U-Boot, TF-A and OP-TEE OS) for the STM32 microprocessor Series used
- Where to find the associated release note

 **Warning**

To use this package efficiently, please read the Developer Package article relative to your STM32 microprocessors Series: [Category:Developer Package](#)




1 STM32MP15-Ecosystem-v3.1.0 release

- The STM32MP1 debug symbol files is delivered through a tarball file named **en.DEBUG-stm32mp1-openstlinux-5-10-dunfell-mp1-21-11-17_tar.xz** for STM32MP157x-EV1  and STM32MP157x-DKx  boards.
- Download and install the STM32MP1 debug symbol files

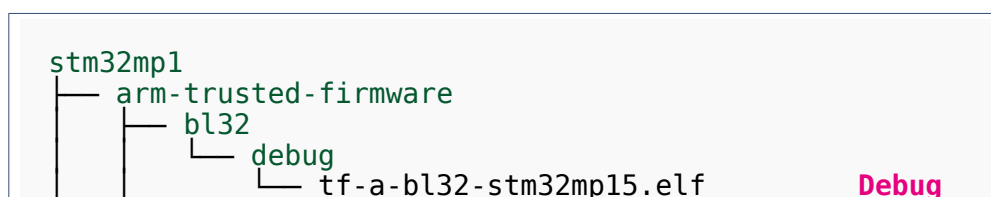
The software package is provided AS IS, and by downloading it, you agree to be bound to the terms of the [software license agreement \(SLA\)](#). The detailed content licenses can be found [here](#).

Warning

To download a package, it is recommended to be logged in to your "myst" account [1]. If, trying to download, you encounter a "403 error", you could try to empty your browser cache to workaround the problem. We are working on the resolution of this problem.
We apologize for this inconvenience

STM32MP1 Developer Package debug symbol files - STM32MP15-Ecosystem-v3.1.0 release	
Download	You need to be logged on to my.st.com before accessing the following link en.DEBUG-stm32mp1-openstlinux-5-10-dunfell-mp1-21-11-17_tar.xz
Installation	<ul style="list-style-type: none"> Go to the host PC directory in which you want to install the Developer Package (<i><Developer Package installation directory></i>); if you follow the proposition to organize the working directory, this means: <pre>PC \$> cd <working directory path>/Developer-Package</pre> <ul style="list-style-type: none"> Download the tarball file in this directory Uncompress the tarball file to get the debug symbol files (for Linux kernel, U-Boot, TF-A and OP-TEE OS): <pre>PC \$> tar xvf en.DEBUG-stm32mp1-openstlinux-5-10-dunfell-mp1-21-11-17_tar.xz</pre>
Release note	 If you are interested in older releases, please have a look into the section Archives .

- The debug symbol files are in the *<Developer Package installation directory>/stm32mp1-openstlinux-5.10-dunfell-mp1-21-11-17/images/stm32mp1 directory*:





```

symbol file for TF-A BL32
├── debug
│   ├── tf-a-bl2-emmc.elf
│   ├── tf-a-bl2-nand.elf
│   ├── tf-a-bl2-nor.elf
│   ├── tf-a-bl2-sdcard.elf
│   └── tf-a-bl2-uart.elf
├── tf-a-bl2-usb.elf
├── kernel
│   ├── config-5.10.61
│   └── vmlinux
├── optee
│   └── debug
│       ├── tee-stm32mp157a-dk1.elf
│       ├── tee-stm32mp157a-ev1.elf
│       ├── tee-stm32mp157c-dk2.elf
│       ├── tee-stm32mp157c-ed1.elf
│       ├── tee-stm32mp157c-ev1.elf
│       ├── tee-stm32mp157d-dk1.elf
│       ├── tee-stm32mp157d-ev1.elf
│       ├── tee-stm32mp157f-dk2.elf
│       ├── tee-stm32mp157f-ed1.elf
│       └── tee-stm32mp157f-ev1.elf
├── u-boot
│   └── debug
│       └── u-boot-stm32mp157a-dk1-trusted.

```

Debug symbol file for TF-A → TF-A for emmc boot stage
Debug symbol file for TF-A → TF-A for nand boot stage
Debug symbol file for TF-A → TF-A for nor boot stage
Debug symbol file for TF-A → TF-A for SDcard boot stage
Debug symbol file for TF-A → TF-A for UART downloading boot stage
Debug symbol file for TF-A → TF-A for USB downloading boot stage
Reference Config file for Linux kernel
symbol file for Linux kernel
Debug symbol file for OP-TEE OS → STM32MP15 Discovery kits
Debug symbol file for OP-TEE OS → STM32MP15 Evaluation boards
Debug symbol file for OP-TEE OS → STM32MP15 Discovery kits
Debug symbol file for OP-TEE OS → STM32MP15 Evaluation boards
Debug symbol file for OP-TEE OS → STM32MP15 Evaluation boards
Debug symbol file for OP-TEE OS → STM32MP15 Discovery kits
Debug symbol file for OP-TEE OS → STM32MP15 Evaluation boards
Debug symbol file for OP-TEE OS → STM32MP15 Discovery kits
Debug symbol file for OP-TEE OS → STM32MP15 Evaluation boards





```
elf      Debug symbol file for U-Boot → STM32MP15
Discovery kits
  └─ u-boot-stm32mp157a-ev1-trusted.
elf      Debug symbol file for U-Boot → STM32MP15
Evaluation boards
  └─ u-boot-stm32mp157c-dk2-trusted.
elf      Debug symbol file for U-Boot → STM32MP15
Discovery kits
  └─ u-boot-stm32mp157c-ed1-trusted.
elf      Debug symbol file for U-Boot → STM32MP15
Evaluation boards
  └─ u-boot-stm32mp157c-ev1-trusted.
elf      Debug symbol file for U-Boot → STM32MP15
Evaluation boards
  └─ u-boot-stm32mp157d-dk1-trusted.
elf      Debug symbol file for U-Boot → STM32MP15
Discovery kits
  └─ u-boot-stm32mp157d-ev1-trusted.
elf      Debug symbol file for U-Boot → STM32MP15
Evaluation boards
  └─ u-boot-stm32mp157f-dk2-trusted.
elf      Debug symbol file for U-Boot → STM32MP15
Discovery kits
  └─ u-boot-stm32mp157f-ed1-trusted.
elf      Debug symbol file for U-Boot → STM32MP15
Evaluation boards
  └─ u-boot-stm32mp157f-ev1-trusted.
elf      Debug symbol file for U-Boot → STM32MP15
Evaluation boards
```



2 Archives

This wiki is for the v3 ecosystem releases. For information about the previous ecosystem releases, please go through the Wiki archives.

2.1 STM32MP15-Ecosystem-v3.0.0 release

- The STM32MP1 debug symbol files is delivered through a tarball file named **en.DEBUG-stm32mp1-openstlinux-5.10-dunfell-mp1-21-03-31.tar.xz** for STM32MP157x-EV1  and STM32MP157x-DKx  boards.
- Download and install the STM32MP1 debug symbol files

The software package is provided AS IS, and by downloading it, you agree to be bound to the terms of the [software license agreement \(SLA\)](#). The detailed content licenses can be found [here](#).

Warning

To download a package, it is recommended to be logged in to your "myst" account [2]. If, trying to download, you encounter a "403 error", you could try to empty your browser cache to workaround the problem. We are working on the resolution of this problem.

We apologize for this inconvenience

STM32MP1 Developer Package debug symbol files - STM32MP15-Ecosystem-v3.0.0 release	
Download	You need to be logged on to <i>my.st.com</i> before accessing the following link en.DEBUG-stm32mp1-openstlinux-5.10-dunfell-mp1-21-03-31.tar.xz
Installation	<ul style="list-style-type: none"> • Go to the host PC directory in which you want to install the Developer Package (<i><Developer Package installation directory></i>); if you follow the proposition to organize the working directory, this means: <pre>PC \$> cd <working directory path>/Developer-Package</pre> <ul style="list-style-type: none"> • Download the tarball file in this directory • Uncompress the tarball file to get the debug symbol files (for Linux kernel, U-Boot, TF-A and OP-TEE OS): <pre>PC \$> tar xvf en.DEBUG-stm32mp1-openstlinux-5.10-dunfell-mp1-21-03-31.tar.xz</pre>
Release note	 If you are interested in older releases, please have a look into the section Archives .

- The debug symbol files are in the *<Developer Package installation directory>/stm32mp1-openstlinux-5.10-dunfell-mp1-21-03-31/images/stm32mp1 directory*:



```

stm32mp1
├── arm-trusted-firmware
│   └── debug
│       ├── tf-a-bl2-emmc.elf
│       │   Debug symbol file for TF-A → TF-A for emmc boot stage
│       ├── tf-a-bl2-nand.elf
│       │   Debug symbol file for TF-A → TF-A for nand boot stage
│       ├── tf-a-bl2-nor.elf
│       │   Debug symbol file for TF-A → TF-A for nor boot stage
│       ├── tf-a-bl2-sdcard.elf
│       │   Debug symbol file for TF-A → TF-A for SDcard boot stage
│       └── tf-a-bl2-uart.elf
│           Debug symbol file for TF-A → TF-A for UART
│           downloading boot stage
│       └── tf-a-bl2-usb.elf
│           Debug symbol file for TF-A → TF-A for USB downloading
│           boot stage
├── kernel
│   └── vmlinux
│       symbol file for Linux kernel
├── optee
│   └── debug
│       ├── tee-stm32mp157a-dk1.elf
│       │   Debug symbol file for OP-TEE OS → STM32MP15 Discovery
│       │   kits
│       ├── tee-stm32mp157a-ev1.elf
│       │   Debug symbol file for OP-TEE OS → STM32MP15 Evaluation
│       │   boards
│       ├── tee-stm32mp157c-dk2.elf
│       │   Debug symbol file for OP-TEE OS → STM32MP15 Discovery
│       │   kits
│       ├── tee-stm32mp157c-ed1.elf
│       │   Debug symbol file for OP-TEE OS → STM32MP15 Evaluation
│       │   boards
│       ├── tee-stm32mp157c-ev1.elf
│       │   Debug symbol file for OP-TEE OS → STM32MP15 Evaluation
│       │   boards
│       ├── tee-stm32mp157d-dk1.elf
│       │   Debug symbol file for OP-TEE OS → STM32MP15 Discovery
│       │   kits
│       ├── tee-stm32mp157d-ev1.elf
│       │   Debug symbol file for OP-TEE OS → STM32MP15 Evaluation
│       │   boards
│       ├── tee-stm32mp157f-dk2.elf
│       │   Debug symbol file for OP-TEE OS → STM32MP15 Discovery
│       │   kits
│       ├── tee-stm32mp157f-ed1.elf
│       │   Debug symbol file for OP-TEE OS → STM32MP15 Evaluation
│       │   boards
│       └── tee-stm32mp157f-ev1.elf
│           Debug symbol file for OP-TEE OS → STM32MP15 Evaluation
│           boards
└── u-boot
    └── debug
        └── u-boot-stm32mp157a-dk1-trusted.
    
```



```

elf          Debug symbol file for U-Boot → STM32MP15
Discovery kits
  └─ u-boot-stm32mp157a-ev1-trusted.
elf          Debug symbol file for U-Boot → STM32MP15
Evaluation boards
  └─ u-boot-stm32mp157c-dk2-trusted.
elf          Debug symbol file for U-Boot → STM32MP15
Discovery kits
  └─ u-boot-stm32mp157c-ed1-trusted.
elf          Debug symbol file for U-Boot → STM32MP15
Evaluation boards
  └─ u-boot-stm32mp157c-ev1-trusted.
elf          Debug symbol file for U-Boot → STM32MP15
Evaluation boards
  └─ u-boot-stm32mp157d-dk1-trusted.
elf          Debug symbol file for U-Boot → STM32MP15
Discovery kits
  └─ u-boot-stm32mp157d-ev1-trusted.
elf          Debug symbol file for U-Boot → STM32MP15
Evaluation boards
  └─ u-boot-stm32mp157f-dk2-trusted.
elf          Debug symbol file for U-Boot → STM32MP15
Discovery kits
  └─ u-boot-stm32mp157f-ed1-trusted.
elf          Debug symbol file for U-Boot → STM32MP15
Evaluation boards
  └─ u-boot-stm32mp157f-ev1-trusted.
elf          Debug symbol file for U-Boot → STM32MP15
Evaluation boards

```

Linux® is a registered trademark of Linus Torvalds.

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

Trusted Firmware for Arm® Cortex®-A

Open Portable Trusted Execution Environment

Operating System

Boot Loader stage 3-2

Universal Asynchronous Receiver/Transmitter