



STM32MP1 Developer Package - debug symbol files



Contents

1. STM32MP1 Developer Package - debug symbol files	20
2. Category:Developer Package	7
3. Example of directory structure for Packages	12
4. OpenSTLinux licenses	16
5. U-Boot overview	24
6. Wiki archives	28



A quality version of this page, approved on 31 March 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-v3.0.0 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 [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-v3.0.0 release	
Download	You need to be logged on to my.st.com before accessing the following link en.DEBUG-stm32mp1-openstlinux-5.10-dunfell-mp1-21-03-31.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
│       Debug
│       symbol file for Linux kernel
├── optee
│   └── debug
│       ├── tee-stm32mp157a-dk1.elf
│       │   De
│       │   bug symbol file for OP-TEE OS → STM32MP15 Discovery
│       │   kits
│       ├── tee-stm32mp157a-ev1.elf
│       │   De
│       │   bug symbol file for OP-TEE OS → STM32MP15 Evaluation
│       │   boards
│       ├── tee-stm32mp157c-dk2.elf
│       │   De
│       │   bug symbol file for OP-TEE OS → STM32MP15 Discovery
│       │   kits
│       ├── tee-stm32mp157c-ed1.elf
│       │   De
│       │   bug symbol file for OP-TEE OS → STM32MP15 Evaluation
│       │   boards
│       ├── tee-stm32mp157c-ev1.elf
│       │   De
│       │   bug symbol file for OP-TEE OS → STM32MP15 Evaluation
│       │   boards
│       ├── tee-stm32mp157d-dk1.elf
│       │   De
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│       │   kits
│       ├── tee-stm32mp157d-ev1.elf
│       │   De
│       │   bug symbol file for OP-TEE OS → STM32MP15 Evaluation
│       │   boards
│       ├── tee-stm32mp157f-dk2.elf
│       │   De
│       │   bug symbol file for OP-TEE OS → STM32MP15 Discovery
│       │   kits
│       ├── tee-stm32mp157f-ed1.elf
│       │   De
│       │   bug symbol file for OP-TEE OS → STM32MP15 Evaluation
│       │   boards
│       └── tee-stm32mp157f-ev1.elf
│       │   De
│       │   bug 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
```



2 Archives

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

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

Universal Asynchronous Receiver/Transmitter

Stable: 17.06.2020 - 15:26 / Revision: 16.01.2020 - 13:43

This article provides the following information:

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│   └── 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
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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
Debug 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
```



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Operating System

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Pages in category "Developer Package"

The following 3 pages are in this category, out of 3 total.

- [How to cross-compile with the Developer Package](#)
- [STM32MP1 Developer Package](#)
- [STM32MP1 Developer Package for Android](#)

Stable: 17.11.2021 - 16:11 / Revision: 16.11.2021 - 13:14

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```
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                                     D
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                                     D
Debug symbol file for TF-A → TF-A for USB downloading
boot stage
|   |── kernel
|   |   |── vmlinux                                             Debug
symbol file for Linux kernel
|   |── optee
|   |   |── debug
|   |   |── tee-stm32mp157a-dk1.elf                               De
bug symbol file for OP-TEE OS → STM32MP15 Discovery
kits
|   |   |── tee-stm32mp157a-ev1.elf                               De
bug symbol file for OP-TEE OS → STM32MP15 Evaluation
boards
|   |   |── tee-stm32mp157c-dk2.elf                               De
bug symbol file for OP-TEE OS → STM32MP15 Discovery
kits
|   |   |── tee-stm32mp157c-ed1.elf                               De
bug symbol file for OP-TEE OS → STM32MP15 Evaluation
boards
|   |   |── tee-stm32mp157c-ev1.elf                               De
bug symbol file for OP-TEE OS → STM32MP15 Evaluation
boards
|   |   |── tee-stm32mp157d-dk1.elf                               De
bug symbol file for OP-TEE OS → STM32MP15 Discovery
kits
|   |   |── tee-stm32mp157d-ev1.elf                               De
bug symbol file for OP-TEE OS → STM32MP15 Evaluation
boards
|   |   |── tee-stm32mp157f-dk2.elf                               De
bug symbol file for OP-TEE OS → STM32MP15 Discovery
kits
|   |   |── tee-stm32mp157f-ed1.elf                               De
bug symbol file for OP-TEE OS → STM32MP15 Evaluation
boards
|   |   |── tee-stm32mp157f-ev1.elf                               De
bug symbol file for OP-TEE OS → STM32MP15 Evaluation
boards
|   |── u-boot
|   |   |── debug
elf   |   |   |── u-boot-stm32mp157a-dk1-trusted.
elf   |   |   |   |   | Debug symbol file for U-Boot → STM32MP15
elf   |   |   |   |   | Discovery kits
elf   |   |   |   |   |── u-boot-stm32mp157a-ev1-trusted.
elf   |   |   |   |   |   |   | Debug symbol file for U-Boot → STM32MP15
elf   |   |   |   |   |   |   | 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
```



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Stable: 17.11.2021 - 14:33 / Revision: 15.11.2021 - 16:30

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```

|      |--- tf-a-bl2-nand.elf
Debug symbol file for TF-A → TF-A for nand boot stage
|      |--- tf-a-bl2-nor.elf                                D
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                                D
Debug symbol file for TF-A → TF-A for USB downloading
boot stage
|      |--- kernel
|      |   |--- vmlinux                                    Debug
symbol file for Linux kernel
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|      |   |--- debug
|      |       |--- tee-stm32mp157a-dk1.elf                De
bug symbol file for OP-TEE OS → STM32MP15 Discovery
kits
|      |       |--- tee-stm32mp157a-ev1.elf                De
bug symbol file for OP-TEE OS → STM32MP15 Evaluation
boards
|      |       |--- tee-stm32mp157c-dk2.elf                De
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|      |       |--- tee-stm32mp157f-dk2.elf                De
bug symbol file for OP-TEE OS → STM32MP15 Discovery
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boards
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elf       |--- u-boot-stm32mp157a-dk1-trusted.
Debug symbol file for U-Boot → STM32MP15
Discovery kits
elf       |--- u-boot-stm32mp157a-ev1-trusted.
Debug symbol file for U-Boot → STM32MP15
Evaluation boards
|      |--- u-boot-stm32mp157c-dk2-trusted.

```



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Evaluation boards
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elf          Debug symbol file for U-Boot → STM32MP15
Evaluation boards
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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.

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

Universal Asynchronous Receiver/Transmitter

Stable: 17.11.2021 - 16:14 / Revision: 16.11.2021 - 16:19

A quality version of this page, approved on 31 March 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-v3.0.0 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 [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-v3.0.0 release	
Download	You need to be logged on to my.st.com before accessing the following link en.DEBUG-stm32mp1-openstlinux-5.10-dunfell-mp1-21-03-31.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> 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
│       Debug
symbol file for Linux kernel
├── optee
│   └── debug
│       ├── tee-stm32mp157a-dk1.elf
│       De
bug symbol file for OP-TEE OS → STM32MP15 Discovery
kits
│       ├── tee-stm32mp157a-ev1.elf
│       De
bug symbol file for OP-TEE OS → STM32MP15 Evaluation
boards
│       ├── tee-stm32mp157c-dk2.elf
│       De
bug symbol file for OP-TEE OS → STM32MP15 Discovery
kits
│       ├── tee-stm32mp157c-ed1.elf
│       De
bug symbol file for OP-TEE OS → STM32MP15 Evaluation
boards
│       ├── tee-stm32mp157c-ev1.elf
│       De
bug symbol file for OP-TEE OS → STM32MP15 Evaluation
boards
│       ├── tee-stm32mp157d-dk1.elf
│       De
bug symbol file for OP-TEE OS → STM32MP15 Discovery
kits
│       ├── tee-stm32mp157d-ev1.elf
│       De
bug symbol file for OP-TEE OS → STM32MP15 Evaluation
boards
│       ├── tee-stm32mp157f-dk2.elf
│       De
bug symbol file for OP-TEE OS → STM32MP15 Discovery
kits
│       ├── tee-stm32mp157f-ed1.elf
│       De
bug symbol file for OP-TEE OS → STM32MP15 Evaluation
boards
│       └── tee-stm32mp157f-ev1.elf
│       De
bug 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
```



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

Trusted Firmware for Arm[®] Cortex[®]-A

Open Portable Trusted Execution Environment

Operating System

Universal Asynchronous Receiver/Transmitter

Stable: **Not stable** / Revision: 11.01.2022 - 09:24

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-v3.0.0 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 [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-v3.0.0 release	
Download	You need to be logged on to my.st.com before accessing the following link en.DEBUG-stm32mp1-openstlinux-5.10-dunfell-mp1-21-03-31.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> 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
│
│   Debug
symbol file for Linux kernel
├── optee
│   └── debug
│       ├── tee-stm32mp157a-dk1.elf
│       De
│       bug symbol file for OP-TEE OS → STM32MP15 Discovery
│       kits
│       ├── tee-stm32mp157a-ev1.elf
│       De
│       bug symbol file for OP-TEE OS → STM32MP15 Evaluation
│       boards
│       ├── tee-stm32mp157c-dk2.elf
│       De
│       bug symbol file for OP-TEE OS → STM32MP15 Discovery
│       kits
│       ├── tee-stm32mp157c-ed1.elf
│       De
│       bug symbol file for OP-TEE OS → STM32MP15 Evaluation
│       boards
│       ├── tee-stm32mp157c-ev1.elf
│       De
│       bug symbol file for OP-TEE OS → STM32MP15 Evaluation
│       boards
│       ├── tee-stm32mp157d-dk1.elf
│       De
│       bug symbol file for OP-TEE OS → STM32MP15 Discovery
│       kits
│       ├── tee-stm32mp157d-ev1.elf
│       De
│       bug symbol file for OP-TEE OS → STM32MP15 Evaluation
│       boards
│       ├── tee-stm32mp157f-dk2.elf
│       De
│       bug symbol file for OP-TEE OS → STM32MP15 Discovery
│       kits
│       ├── tee-stm32mp157f-ed1.elf
│       De
│       bug symbol file for OP-TEE OS → STM32MP15 Evaluation
│       boards
│       └── tee-stm32mp157f-ev1.elf
│       De
│       bug 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
```



2 Archives

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

Trusted Firmware for Arm[®] Cortex[®]-A

Open Portable Trusted Execution Environment

Operating System

Universal Asynchronous Receiver/Transmitter
Stable: **Not stable** / Revision: 14.01.2022 - 10:33

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-v3.0.0 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.
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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 my.st.com 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> 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           D
    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           D
    Debug symbol file for TF-A → TF-A for USB downloading
    boot stage
    └── kernel
       │
       └── vmlinux                 Debug
    symbol file for Linux kernel
    └── optee
       │
       └── debug
          ├── tee-stm32mp157a-dk1.elf    De
          bug symbol file for OP-TEE OS → STM32MP15 Discovery
          kits
          ├── tee-stm32mp157a-ev1.elf    De
          bug symbol file for OP-TEE OS → STM32MP15 Evaluation
          boards
          ├── tee-stm32mp157c-dk2.elf    De
          bug symbol file for OP-TEE OS → STM32MP15 Discovery
          kits
          ├── tee-stm32mp157c-ed1.elf    De
          bug symbol file for OP-TEE OS → STM32MP15 Evaluation
          boards
          ├── tee-stm32mp157c-ev1.elf    De
          bug symbol file for OP-TEE OS → STM32MP15 Evaluation
          boards
          ├── tee-stm32mp157d-dk1.elf    De
          bug symbol file for OP-TEE OS → STM32MP15 Discovery
          kits
          ├── tee-stm32mp157d-ev1.elf    De
          bug symbol file for OP-TEE OS → STM32MP15 Evaluation
          boards
          ├── tee-stm32mp157f-dk2.elf    De
          bug symbol file for OP-TEE OS → STM32MP15 Discovery
          kits
          ├── tee-stm32mp157f-ed1.elf    De
          bug symbol file for OP-TEE OS → STM32MP15 Evaluation
          boards
          └── tee-stm32mp157f-ev1.elf    De
          bug 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
```



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