



## STM32MP1 Developer Package - debug symbol files



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## Contents

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A quality version of this page, approved on 17 November 2020, 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-v2.1.0 release

- The STM32MP1 debug symbol files is delivered through a tarball file named **en.DEBUG-stm32mp1-openstlinux-5-4-dunfell-mp1-20-11-12.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-v2.1.0 release	
Download	You need to be logged on to <a href="#">my.st.com</a> before accessing the following link <a href="#">en.DEBUG-stm32mp1-openstlinux-5-4-dunfell-mp1-20-11-12.tar.xz</a>
Installation	<ul style="list-style-type: none"> <li>Go to the host PC directory in which you want to install the Developer Package (<i>&lt;Developer Package installation directory&gt;</i>); if you follow the <a href="#">proposition to organize the working directory</a>, this means:</li> </ul> <pre style="border: 1px dashed black; padding: 5px;">\$ cd &lt;working directory path&gt;/Developer-Package</pre> <ul style="list-style-type: none"> <li>Download the tarball file in this directory</li> <li>Uncompress the tarball file to get the debug symbol files (for Linux kernel, U-Boot, TF-A and OP-TEE OS):</li> </ul> <pre style="border: 1px dashed black; padding: 5px;">PC \$&gt; \$ tar xvf en.DEBUG-stm32mp1-openstlinux-5-4-dunfell-mp1-20-11-12.tar.xz</pre>
Release note	 If you are interested in older releases, please have a look into the section <a href="#">Archives</a> .

- The debug symbol files are in the *<Developer Package installation directory>/stm32mp1-openstlinux-5-4-dunfell-mp1-20-11-12/images/stm32mp1* directory:

**Debug symbol file for TF-A**  
**→ TF-A for OP-TEE boot stage**  
**Debug symbol file for TF-A**



```

stm32mp1
├── arm-trusted-firmware
│   ├── tf-a-bl2-optee.elf
│   ├── tf-a-bl2-serialboot.elf
│   ├── tf-a-bl2-trusted.elf
│   ├── tf-a-bl32-serialboot.elf
│   └── tf-a-bl32-trusted.elf
├── bootloader
│   ├── u-boot-stm32mp157a-dk1-optee.elf
│   └── u-boot-stm32mp157a-dk1-trusted.
elf
│   ├── u-boot-stm32mp157a-ev1-optee.elf
│   └── u-boot-stm32mp157a-ev1-trusted.
elf
│   ├── u-boot-stm32mp157c-dk2-optee.elf
│   └── u-boot-stm32mp157c-dk2-trusted.
elf
│   ├── u-boot-stm32mp157c-ev1-optee.elf
│   └── u-boot-stm32mp157c-ev1-trusted.
elf
│   ├── u-boot-stm32mp157d-dk1-optee.elf
│   └── u-boot-stm32mp157d-dk1-trusted.
elf
│   ├── u-boot-stm32mp157d-ev1-optee.elf
│   └── u-boot-stm32mp157d-ev1-trusted.
elf
│   ├── u-boot-stm32mp157f-dk2-optee.elf
│   └── u-boot-stm32mp157f-dk2-trusted.
elf
│   ├── u-boot-stm32mp157f-ev1-optee.elf
│   └── u-boot-stm32mp157f-ev1-trusted.
elf
├── kernel
│   └── vmlinux
└── optee
    ├── tee-stm32mp157a-dk1-optee.elf
    ├── tee-stm32mp157a-ev1-optee.elf
    └── tee-stm32mp157c-dk2-optee.elf
  
```

→ fsbl for flasher  
 Debug symbol file for TF-A  
 → TF-A for OP-TEE boot stage  
 Debug symbol file for TF-A  
 → secure monitor for flasher  
 Debug symbol file for TF-A  
 → runtime software stage

Debug symbol file for U-Boot  
 → STM32MP15 Discovery kits  
 Debug symbol file for U-Boot  
 → STM32MP15 Discovery kits  
 Debug symbol file for U-Boot  
 → STM32MP15 Evaluation  
 boards

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

Debug symbol file for Linux  
 kernel



```
├── tee-stm32mp157c-ev1-optee.elf
├── tee-stm32mp157d-dk1-optee.elf
├── tee-stm32mp157d-ev1-optee.elf
├── tee-stm32mp157f-dk2-optee.elf
└── tee-stm32mp157f-ev1-optee.elf
```

**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  
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OS → STM32MP15 Discovery  
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**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**



## 2 Archives

This wiki is for the v2 ecosystem releases. For information about the previous ecosystem releases, please go through the Wiki archives.

### 2.1 STM32MP15-Ecosystem-v2.0.0 release


- The STM32MP1 debug symbol files is delivered through a tarball file named **en.DEBUG-stm32mp1-openstlinux-5-4-dunfell-mp1-20-06-24.tar.xz** for STM32MP157x-EV1  and STM32MP157x-DKx  boards.
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STM32MP1 Developer Package debug symbol files - STM32MP15-Ecosystem-v2.0.0 release	
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Release note	 If you are interested in older releases, please have a look into the section <a href="#">Archives</a> .

- The debug symbol files are in the *<Developer Package installation directory>/stm32mp1-openstlinux-20-06-24/images /stm32mp1* directory:



```

stm32mp1
├── arm-trusted-firmware
│   ├── tf-a-bl2-optee.elf
│   ├── tf-a-bl2-serialboot.elf
│   ├── tf-a-bl2-trusted.elf
│   ├── tf-a-bl32-serialboot.elf
│   └── tf-a-bl32-trusted.elf
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│   ├── u-boot-stm32mp157a-dk1-trusted.
│   ├── u-boot-stm32mp157a-ev1-optee.elf
│   ├── u-boot-stm32mp157a-ev1-trusted.
│   ├── u-boot-stm32mp157c-dk2-optee.elf
│   ├── u-boot-stm32mp157c-dk2-trusted.
│   ├── u-boot-stm32mp157c-ev1-optee.elf
│   ├── u-boot-stm32mp157c-ev1-trusted.
│   ├── u-boot-stm32mp157d-dk1-optee.elf
│   ├── u-boot-stm32mp157d-dk1-trusted.
│   ├── u-boot-stm32mp157d-ev1-optee.elf
│   ├── u-boot-stm32mp157d-ev1-trusted.
│   ├── u-boot-stm32mp157f-dk2-optee.elf
│   ├── u-boot-stm32mp157f-dk2-trusted.
│   ├── u-boot-stm32mp157f-ev1-optee.elf
│   └── u-boot-stm32mp157f-ev1-trusted.
├── kernel
│   └── vmlinux
└── optee
  
```

Debug symbol file for TF-A  
 → TF-A for OP-TEE boot stage  
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Debug symbol file for U-Boot  
 → STM32MP15 Evaluation  
 boards





tee-stm32mp157a-dk1-optee.elf	Debug symbol file for Linux kernel
tee-stm32mp157a-ev1-optee.elf	
tee-stm32mp157c-dk2-optee.elf	
tee-stm32mp157c-ev1-optee.elf	
tee-stm32mp157d-dk1-optee.elf	Debug symbol file for OP-TEE OS → STM32MP15 Discovery kits
tee-stm32mp157d-ev1-optee.elf	Debug symbol file for OP-TEE OS → STM32MP15 Evaluation boards
tee-stm32mp157f-dk2-optee.elf	Debug symbol file for OP-TEE OS → STM32MP15 Discovery kits
tee-stm32mp157f-ev1-optee.elf	Debug symbol file for OP-TEE OS → 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