



STM32MP1 Distribution Package - OpenSTLinux distribution



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A [quality version](#) of this page, [accepted](#) on *9 October 2019*, was based off this revision.

This article aims to give the following information:

- How to download and install the **latest** OpenSTLinux distribution for the STM32 microprocessors Series
- Where to find the associated release note
- Where to find the previous releases (archives)



For more specific information, go through the [Distribution Package](#) article relative to your [STM32 microprocessors Series](#): [Category:Distribution Package](#)

1 STM32MP15-Ecosystem-v1.1.0 release

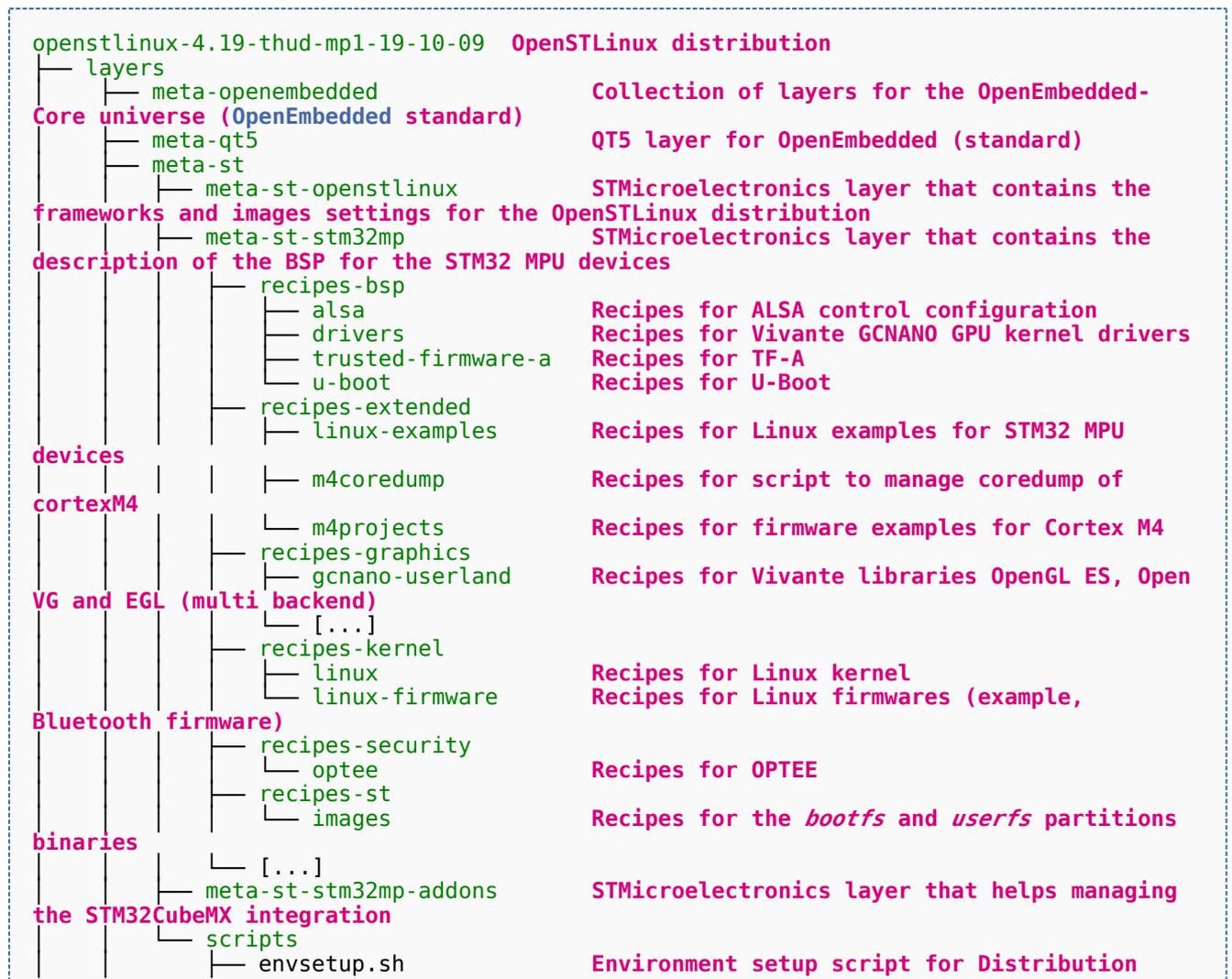
- The STM32MP1 OpenSTLinux distribution is delivered through a manifest repository location and a manifest revision ([openstlinux-4.19-thud-mp1-19-10-09](#)).
- The installation relies on the `repo` command. In case the Repo tool (a Google-built repository management tool that runs on top of Git) is not yet installed and configured on the host PC, refer to the [PC prerequisites](#) article.
- The OpenSTLinux distribution is massively using open source software (OSS) packages that are downloaded from a variety of open source repositories; so it is required that the IT infrastructure proxies do not forbid such accesses. If some proxy-related issues are suspected, refer to the [How to avoid proxy issues](#) article.
- Install the STM32MP1 OpenSTLinux distribution

STM32MP1 Distribution Package OpenSTLinux distribution - STM32MP15-Ecosystem-v1.1.0 release	
Installation	<ul style="list-style-type: none">• Go to the host PC directory where to install the Distribution Package (<i><Distribution Package installation directory></i>). Example, if following the proposition to organize the working directory:
	<pre>\$ cd <working directory path>/Distribution-Package</pre>
	<ul style="list-style-type: none">• Create the OpenSTLinux distribution installation sub-directory:
	<pre>\$ mkdir openstlinux-4.19-thud-mp1-19-10-09 \$ cd openstlinux-4.19-thud-mp1-19-10-09</pre>
	<ul style="list-style-type: none">• Initialize repo in the current directory (More details on 'repo init' here).
	<pre>\$ repo init -u https://github.com/STMicroelectronics/oe-manifest.git -b refs/tags/openstlinux-4.19-thud-mp1-19-10-09</pre>



STM32MP1 Distribution Package OpenSTLinux distribution - STM32MP15-Ecosystem-v1.1.0 release	
	<p>Note: "ERROR 404" may appear during "repo init" command without any impact on the process</p> <ul style="list-style-type: none"> Synchronize the local project directories with the remote repositories specified in the manifest (more details on 'repo sync' here) <div style="border: 1px dashed black; padding: 10px; margin: 10px 0;"> <pre>\$ repo sync</pre> </div> <p>Note: <i>Distribution package</i> needs around 140MB to be installed (and around 25GB once <i>distribution package</i> is compiled).</p>
Release note	<p>Details about the content of this software package are available in the associated STM32MP15 ecosystem release note.</p> <p>If interested in previous releases, go through the archives of the ecosystem release note.</p>

- The **OpenSTLinux distribution installation directory** is in the *<Distribution Package installation directory>*, and is named `openstlinux-4.19-thud-mp1-19-10-09`:





Timesys layer for OpenEmbedded (standard)
Core metadata for current versions of OpenEmb

2 Archives

2.1 STM32MP15-Ecosystem-v1.0.0 release

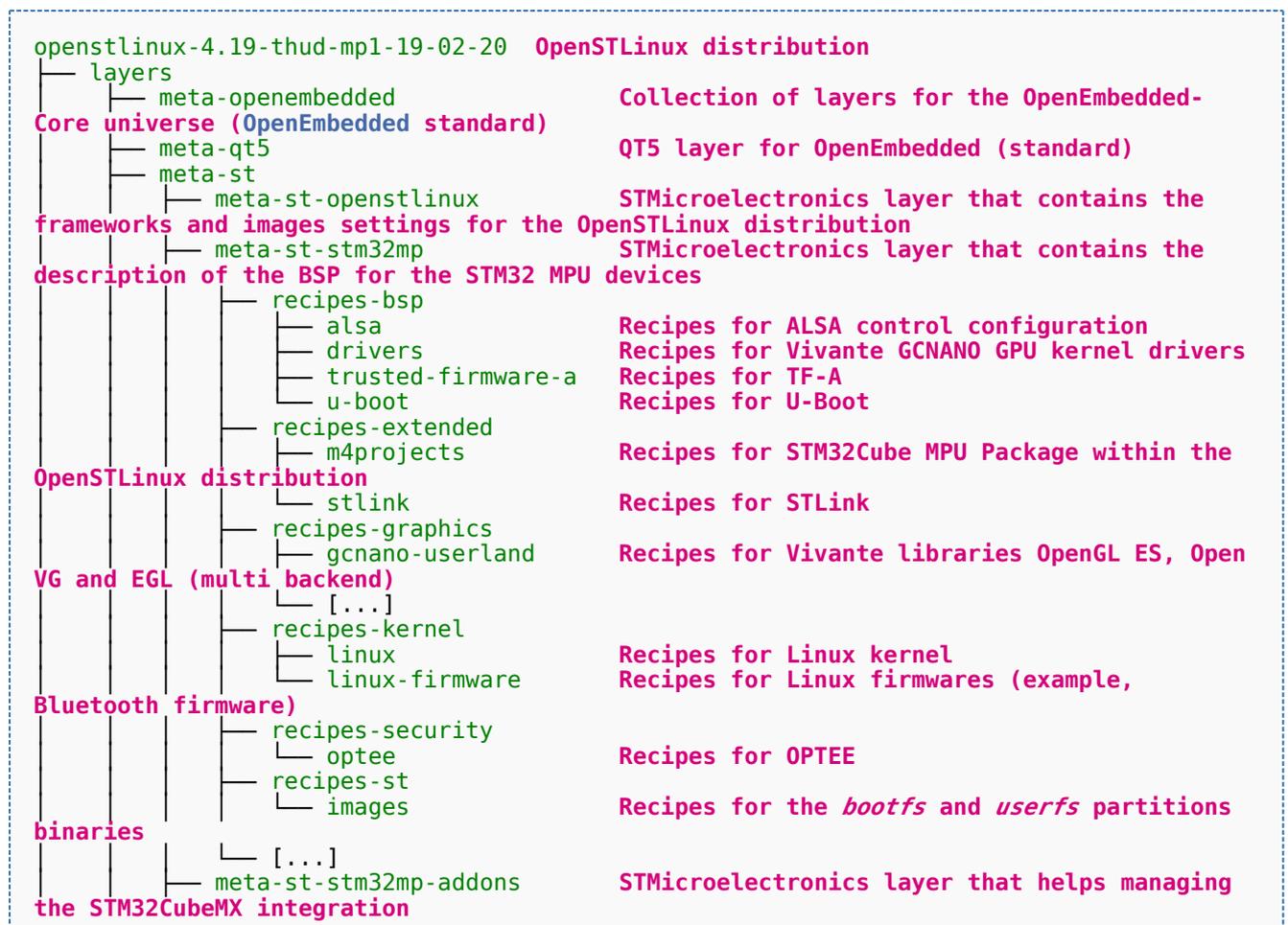
- The STM32MP1 OpenSTLinux distribution is delivered through a manifest repository location and a manifest revision ([openstlinux-4.19-thud-mp1-19-02-20](#)).
- The installation relies on the `repo` command. In case the Repo tool (a Google-built repository management tool that runs on top of Git) is not yet installed and configured on the host PC, refer to the [PC prerequisites](#) article.
- The OpenSTLinux distribution is massively using open source software (OSS) packages that are downloaded from a variety of open source repositories; so it is required that the IT infrastructure proxies do not forbid such accesses. If some proxy-related issues are suspected, refer to the [How to avoid proxy issues](#) article.
- Install the STM32MP1 OpenSTLinux distribution

STM32MP1 Distribution Package OpenSTLinux distribution - STM32MP15-Ecosystem-v1.0.0 release	
Installation	<ul style="list-style-type: none">• Go to the host PC directory where to install the Distribution Package (<i><Distribution Package installation directory></i>). Example, if following the proposition to organize the working directory:
	<pre>\$ cd <working directory path>/Distribution-Package</pre>
	<ul style="list-style-type: none">• Create the OpenSTLinux distribution installation sub-directory:
	<pre>\$ mkdir openstlinux-4.19-thud-mp1-19-02-20 \$ cd openstlinux-4.19-thud-mp1-19-02-20</pre>
	<ul style="list-style-type: none">• Initialize repo in the current directory.
	Details: The below command downloads (in the <code>.repo</code> directory) the latest repo source code and a manifest file (<i>default.xml</i>) that describes the directory structure of the repositories for OpenSTLinux. The <code>-u</code> option specifies the manifest repository location, while the <code>-b</code> option specifies its branch.
	<pre>\$ repo init -u https://github.com/STMicroelectronics/oe-manifest.git -b refs/tags/openstlinux-4.19-thud-mp1-19-02-20</pre>



STM32MP1 Distribution Package OpenSTLinux distribution - STM32MP15-Ecosystem-v1.0.0 release	
	<p>Note: "ERROR 404" may appear during "repo init" command without any impact on the process</p> <ul style="list-style-type: none">• Synchronize the local project directories with the remote repositories specified in the manifest <p>Details:</p> <p>If a local project does not yet exist, the command clones a new local directory from the remote repository and sets up tracking branches as specified in the manifest.</p> <p>If the local project already exists, the command updates the remote branches and rebases any new local changes on top of the new remote changes.</p> <pre>\$ repo sync</pre>
Release note	<p>Details about the content of this software package are available in the associated STM32MP15 ecosystem release note.</p> <p>If interested in previous releases, go through the archives of the ecosystem release note.</p>

- The **OpenSTLinux distribution installation directory** is in the *<Distribution Package installation directory>*, and is named `openstlinux-4.19-thud-mp1-19-02-20`:





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Open Source Software

Board support package

Microprocessor Unit

Advanced Linux sound architecture

Graphics Processing Units

Trusted Firmware for Arm Cortex-A

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

Open Graphics Library (See <http://www.opengl.org/> for more details)

Open Vector Graphics (See <http://www.khronos.org/opengv/> for more details)

Khronos Native Platform Graphics Interface (See <http://www.khronos.org/egl/> for more details)

ST in-circuit debugger and programmer for the STM8 and STM32 microcontroller families (See [ST-LINK](#) for more details)