- **STM32MPU wiki user guide: THE MAIN ENTRIES links/keyword (right column)** *(among 400 articles)*

***The wiki is user manual of the* STM32MPU Embedded Software distribution**
It *focuses on software and on practical getting started information.* *Now availabe in* https://wiki.st.com/stm32mpu

Home page	Main Page

Entry point to Reference documents **STM32MP1 getting started AN, Reference Manual, Data brief, Disco/Eval schematics, trainings, link to other release notes (tools, OpenSTLinux distribution, STM32CubeMPU)** ***Training material from division***	**STM32MP15 ecosystem release note - v1.0.0** STM32MP15 ecosystem errata sheet - v1.0.0 **STM32MP15 ecosystem release note**
RM0436 - reference manual - STM32MP157xxx advanced Arm®-based 32-bit MPUs ***DS12005 - STM32MP157Cxx datasheet*** ***E0438 - STM32MP15xx device errata*** ***STPMIC1x data sheet*** ***AN5031 – Getting started with STM32MP15 Series hardware development*** ***AN5109 - STM32MP15 Series using low-power modes*** ***AN5122 - STM32MP15 Series DDR Doubledata rate memory routing guidelines*** ***AN5089 - STM32MP15x and STPMU1x HW and SW integration (not yet on wiki)*** ***AN5168 - STM32MP1 series DDRDoubledata rate (memory domain) configuration*** ***UM2534 - STM32MP157x-DKx discovery board user manual***	STM32MP15 resources - v1.0.0 STM32MP15 resources
License information	OpenSTLinux licenses
Cortex-A7 "world" "STM32MP15 OpenSTLinux" detailed (layers) release note	**STM32MP15 OpenSTLinux release note - v1.0.0** **STM32MP15 OpenSTLinux release note**
Cortex-M4 "world" in "STM32Cube MPU Package" (M4 side) detailed release note	**STM32CubeMP1 Package release note - v1.0.0** **STM32CubeMP1 Package release note**
"STM32MP15 tools" detailed release note CubeProgrammer CubeMx SystemWorkbench IDE and M4 coproc eclipse plug-in	STM32CubeProgrammer release note STM32CubeMX release note STM32-CoPro-MPU plugin release note KeyGen release note Signing tool release note

Linux PC installation (PC or VM setup to be able to build distribution package)	**PC prerequisites**

Software delivery content Access to 3 software package main articles	Getting started with ST boards **STM32MPU Embedded Software distribution**

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The hw board user guides,	**STM32MP157X-DKX - hardware description** STM32MP157C-EV1 - hardware description
where to get the software starter images,	**STM32MP1 Starter Package - images**
how to use the board, flash with CubeProgrammer, ***how to open terminal window connected to st-link.*** *(use links "Fast links to essential commands" at the very bottom of the following pages)*	**STM32MP15 Discovery kits - Starter Package** STM32MP15 Evaluation boards - Starter Package

The developer software package main page (in bold), Sub pages on how to build components	**STM32MP1 Developer Package** STM32MP1 Developer Package - SDK STM32MP1 Developer Package - Linux kernel STM32MP1 Developer Package - U-Boot STM32MP1 Developer Package - TF-A STM32MP1 Developer Package - OP-TEE STM32MP1 Developer Package - debug symbol files Install the SDK File:Linux.README.HOW TO.txt File:U-Boot.README.HOW TO.txt File:TF-A.README.HOW TO.txt File:OP-TEE.README.HOW TO.txt

The distribution software package *How to build the distribution package*	**STM32MP1 Distribution Package** STM32MP1 Distribution Package - OpenSTLinux distribution

Get the STM32Cube firmware software package *How to use the firmware examples, build and debug with system workbench IDE, how to build in distribution package*	**STM32MP1 Developer Package - STM32Cube MPU Package** STM32CubeMP1 Package

Package Installation

The directory structure template *(When you start to install the developer and distribution package on your Linux host)*	Example of directory structure for Packages OpenSTLinux directory structure Example of directory structure for tools

OpenSTLinux software (To understand further the software architecture)

List of the frameworks and APIs	**Embedded software components**
Boot chain component	**Platform boot**
Device tree config	**Platform configuration**
Linux kernel components	**Linux Operating System**
Linux API component link	https://www.kernel.org/doc/html/latest/ https://www.kernel.org/doc/html/latest/driver-api/index.html
Example Analog ADC	**Linux Operating System** Analog IIO
ST driver with source location	ADC Linux driver IIO overview
Linux driver API	https://www.kernel.org/doc/html/latest/driver-api/iio/index.html
Example Low speed interface I2C	
ST driver with source location	Low speed interface I2C driver
Linux I2C driver API	https://www.kernel.org/doc/html/latest/driver-api/i2c.html

How to run OpenSTLinux Use Cases

How to play a vide stream, use camera, display picture,….	**How to run use cases**
Some examples wit associated framework overiew	**How to play a video**
play video	**Gst-play**
gstreamer	**Gstreamer overview**
camera	**How to make a camera preview**
v4l2	**V4L2 camera overview**
display picture	**How to display an image using Weston**
Weston-wayland	**Wayland Weston overview**
GTK demo (starter package demo)	**GTK demo launcher**

How to Tools & Debug

Flashing	STM32CubeProgrammer How to populate a microSD card with a script
Hyperterminal Connection with st-link (virtual comport)	ST-LINK Serial/TTY overview How to use TTY with User Terminal Trace and debug scenario - UART issue
OpenEmbedded Commands Bitbake commands	OpenEmbedded Bitbake_cheat_sheet OpenEmbedded – devtool
How to get the trace from linux software components How to get trace in each framework (example DRM KMS) look for "**How to trace and debug the framework**	**Linux tracing, monitoring and debugging** **DRM KMS overview**
Linux kernel driver traces	**How to use the kernel dynamic debug** How to find Linux kernel driver associated to a device
Debug tools main useful articles	**Trace and debug tools** **STM32MP1 Platform trace and debug environment overview** **Debugging tools** GDB GDB commands Gdbgui Debugging the Linux kernel using the GDB U-Boot-How to debug TF-A-How to debug OP-TEE-How to debug STM32-CoPro-MPU plugin for SW4STM32
Perf monitoring	Netdata