

EP-CA22

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1. See “gpl_lgpl_patch.zip” for the patch files of GPL/LGP.
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○OpenSTLinux4.1.1

- Git

<https://github.com/STMicroelectronics/oe-manifest.git>

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○Image Content

List of packages used during the different boot phases:

Recipe Name	Version	License
linux-stm32mp	5.15.118-stm32mp-r2.1	GPL-2.0-only
optee-os-stm32mp	3.16.0-stm32mp-r2.1	BSD-2-Clause & BSD-3-Clause
st-initrd	1.0	MIT
tf-a-stm32mp	v2.6-stm32mp-r2.1	BSD-3-Clause
u-boot-stm32mp	v2021.10-stm32mp-r2.1	GPL-2.0-or-later

List of packages present on image (image-bootfs)

Recipe Name	Package Name	Version	License	Description
linux-stm32mp	kernel-imagebootfs	5.15.118-stm32mp-r2.1	GPL-2.0-only	Linux STM32MP Kernel
st-initrd	st-initrd	1.0	MIT	ST InitRD installation package for st-image-resize-initrd image(s)
stm32mp-extlinux	stm32mp-extlinux	3.1.1	MIT	Provide 'extlinux.conf' file for U-Boot
u-boot-stm32mp-splash	u-boot-stm32mp-splash	2018.11	Proprietary	Universal Boot Loader Splash Screen for stm32mp embedded devices

List of packages present on image (image-core)

Recipe Name	Package Name	Version	License	Description
base-files	base-files	3.0.14	GPL-2.0-only	Miscellaneous files for the base system
bash	bash	5.1.16	GPL-3.0-or-later	An sh-compatible command language interpreter
build-info-openstlinux	build-info-openstlinux	1.0	MIT	Writes build information to target filesystem on /etc/build
busybox	busybox	1.35.0	GPL-2.0-only & bzip2-1.0.4	Tiny versions of many common UNIX utilities in a single small executable
busybox	busybox-hwclock	1.35.0	GPL-2.0-only & bzip2-1.0.4	Tiny versions of many common UNIX utilities in a single small executable
busybox	busybox-syslog	1.35.0	GPL-2.0-only & bzip2-1.0.4	Tiny versions of many common UNIX utilities in a single small executable
busybox	busybox-udhcpd	1.35.0	GPL-2.0-only & bzip2-1.0.4	Tiny versions of many common UNIX utilities in a single small executable
ca-certificates	ca-certificates	20211016	GPL-2.0-or-later & MPL-2.0	Common CA certificates
connman	connman	1.42	GPL-2.0-only	A daemon for managing internet connections within embedded devices

connman	connman-client	1.42	GPL-2.0-only	A daemon for managing internet connections within embedded devices
connman	connman-tools	1.42	GPL-2.0-only	A daemon for managing internet connections within embedded devices
cronie	cronie	1.6.1	ISC & BSD-3-Clause & BSD-2-Clause & GPL-2.0-or-later	Cron daemon for executing programs at set times
dbus	dbus-1	1.14.6	AFL-2.1 GPL-2.0-or-later	D-Bus message bus
dbus	dbus-common	1.14.6	AFL-2.1 GPL-2.0-or-later	D-Bus message bus
dbus	dbus-tools	1.14.6	AFL-2.1 GPL-2.0-or-later	D-Bus message bus
devmem2	devmem2	2.0	GPL-2.0-or-later	Simple program to read/write from/to any location in memory
dropbear	dropbear	2020.81	MIT & BSD-3-Clause & BSD-2-Clause & PD	A lightweight SSH and SCP implementation
e2fsprogs	e2fsprogs	1.46.5	GPL-2.0-only & LGPL-2.0-only & BSD-3-Clause & MIT	Ext2 Filesystem Utilities

e2fsprogs	e2fsprogs-badblocks	1.46.5	GPL-2.0-only	Ext2 Filesystem Utilities
e2fsprogs	e2fsprogs-dumpe2fs	1.46.5	GPL-2.0-only	Ext2 Filesystem Utilities
e2fsprogs	e2fsprogs-e2fsck	1.46.5	GPL-2.0-only	Ext2 Filesystem Utilities
e2fsprogs	e2fsprogs-mke2fs	1.46.5	GPL-2.0-only	Ext2 Filesystem Utilities
e2fsprogs	e2fsprogs-tune2fs	1.46.5	GPL-2.0-only	Ext2 Filesystem Utilities
eudev	eudev	3.2.10	GPL-2.0-or-later & LGPL-2.1-or-later	eudev is a fork of systemd's udev
eudev	eudev-hwdb	3.2.10	GPL-2.0-or-later & LGPL-2.1-or-later	eudev is a fork of systemd's udev
fscryptctl	fscryptctl	1.0.0	Apache-2.0	low-level tool handling Linux filesystem encryption
fwu-gen- metadata	fwu-gen-metadata	1.0	BSD-2-Clause	Tool to create FWU Metadata struct in Python
gcc-sanitizers	gcc-sanitizers	11.3.0	NCSA MIT	GNU cc and gcc C compilers
glibc-locale	glibc-binary- localedata-en-us	2.35	GPL-2.0-only & LGPL-2.1-only	binary locale definition for en-us
gobject- introspection	gobject-introspection	1.72.0	LGPL-2.0-or-later & GPL-2.0-or-later & MIT	Middleware layer between GObject- using C libraries and language bindings
hdparm	hdparm	9.63	BSD-2-Clause & hdparm	Utility for viewing/manipulating IDE disk drive/driver parameters
i2c-tools	i2c-tools	4.3	GPL-2.0-or-later	Set of i2c tools for linux

init-ifupdown	init-ifupdown	1.0	GPL-2.0-only	Basic TCP/IP networking init scripts and configuration files
init-system-helpers	init-system-helpers-service	1.62	BSD-3-Clause & GPL-2.0-only	helper tools for all init systems
initscripts	initscripts	1.0	GPL-2.0-only	SysV init scripts
initscripts	initscripts-functions	1.0	GPL-2.0-only	SysV init scripts
iptables	iptables	1.8.7	GPL-2.0-or-later	Tools for managing kernel packet filtering capabilities
iptables	iptables-module-ip6t-ah	1.8.7	GPL-2.0-or-later	iptables module ip6t-ah
iptables	iptables-module-ip6t-dnat	1.8.7	GPL-2.0-or-later	iptables module ip6t-dnat
iptables	iptables-module-ip6t-dnpt	1.8.7	GPL-2.0-or-later	iptables module ip6t-dnpt
iptables	iptables-module-ip6t-dst	1.8.7	GPL-2.0-or-later	iptables module ip6t-dst
iptables	iptables-module-ip6t-eui64	1.8.7	GPL-2.0-or-later	iptables module ip6t-eui64
iptables	iptables-module-ip6t-frag	1.8.7	GPL-2.0-or-later	iptables module ip6t-frag
iptables	iptables-module-ip6t-hbh	1.8.7	GPL-2.0-or-later	iptables module ip6t-hbh

iptables	iptables-module- ip6t-hl	1.8.7	GPL-2.0-or-later	iptables module ip6t-hl
iptables	iptables-module- ip6t-icmp6	1.8.7	GPL-2.0-or-later	iptables module ip6t-icmp6
iptables	iptables-module- ip6t-ipv6header	1.8.7	GPL-2.0-or-later	iptables module ip6t-ipv6header
iptables	iptables-module- ip6t-log	1.8.7	GPL-2.0-or-later	iptables module ip6t-log
iptables	iptables-module- ip6t-masquerade	1.8.7	GPL-2.0-or-later	iptables module ip6t-masquerade
iptables	iptables-module- ip6t-mh	1.8.7	GPL-2.0-or-later	iptables module ip6t-mh
iptables	iptables-module- ip6t-netmap	1.8.7	GPL-2.0-or-later	iptables module ip6t-netmap
iptables	iptables-module- ip6t-redirect	1.8.7	GPL-2.0-or-later	iptables module ip6t-redirect
iptables	iptables-module- ip6t-reject	1.8.7	GPL-2.0-or-later	iptables module ip6t-reject
iptables	iptables-module- ip6t-rt	1.8.7	GPL-2.0-or-later	iptables module ip6t-rt
iptables	iptables-module- ip6t-snat	1.8.7	GPL-2.0-or-later	iptables module ip6t-snat

iptables	iptables-module- ip6t-snpt	1.8.7	GPL-2.0-or-later	iptables module ip6t-snpt
iptables	iptables-module- ip6t-srh	1.8.7	GPL-2.0-or-later	iptables module ip6t-srh
iptables	iptables-module-ipt- ah	1.8.7	GPL-2.0-or-later	iptables module ipt-ah
iptables	iptables-module-ipt- clusterip	1.8.7	GPL-2.0-or-later	iptables module ipt-clusterip
iptables	iptables-module-ipt- dnat	1.8.7	GPL-2.0-or-later	iptables module ipt-dnat
iptables	iptables-module-ipt- ecn	1.8.7	GPL-2.0-or-later	iptables module ipt-ecn
iptables	iptables-module-ipt- icmp	1.8.7	GPL-2.0-or-later	iptables module ipt-icmp
iptables	iptables-module-ipt- log	1.8.7	GPL-2.0-or-later	iptables module ipt-log
iptables	iptables-module-ipt- masquerade	1.8.7	GPL-2.0-or-later	iptables module ipt-masquerade
iptables	iptables-module-ipt- netmap	1.8.7	GPL-2.0-or-later	iptables module ipt-netmap
iptables	iptables-module-ipt- realm	1.8.7	GPL-2.0-or-later	iptables module ipt-realm

iptables	iptables-module-xt-cluster	1.8.7	GPL-2.0-or-later	iptables module xt-cluster
iptables	iptables-module-xt-comment	1.8.7	GPL-2.0-or-later	iptables module xt-comment
iptables	iptables-module-xt-connbytes	1.8.7	GPL-2.0-or-later	iptables module xt-connbytes
iptables	iptables-module-xt-connlimit	1.8.7	GPL-2.0-or-later	iptables module xt-connlimit
iptables	iptables-module-xt-connmark	1.8.7	GPL-2.0-or-later	iptables module xt-connmark
iptables	iptables-module-xt-connsecmark	1.8.7	GPL-2.0-or-later	iptables module xt-connsecmark
iptables	iptables-module-xt-conntrack	1.8.7	GPL-2.0-or-later	iptables module xt-conntrack
iptables	iptables-module-xt-cpu	1.8.7	GPL-2.0-or-later	iptables module xt-cpu
iptables	iptables-module-xt-ct	1.8.7	GPL-2.0-or-later	iptables module xt-ct
iptables	iptables-module-xt-dccp	1.8.7	GPL-2.0-or-later	iptables module xt-dccp
iptables	iptables-module-xt-devgroup	1.8.7	GPL-2.0-or-later	iptables module xt-devgroup

iptables	iptables-module-xt-dscp	1.8.7	GPL-2.0-or-later	iptables module xt-dscp
iptables	iptables-module-xt-ecn	1.8.7	GPL-2.0-or-later	iptables module xt-ecn
iptables	iptables-module-xt-esp	1.8.7	GPL-2.0-or-later	iptables module xt-esp
iptables	iptables-module-xt-hashlimit	1.8.7	GPL-2.0-or-later	iptables module xt-hashlimit
iptables	iptables-module-xt-helper	1.8.7	GPL-2.0-or-later	iptables module xt-helper
iptables	iptables-module-xt-hmark	1.8.7	GPL-2.0-or-later	iptables module xt-hmark
iptables	iptables-module-xt-idletimer	1.8.7	GPL-2.0-or-later	iptables module xt-idletimer
iptables	iptables-module-xt-ipcomp	1.8.7	GPL-2.0-or-later	iptables module xt-ipcomp
iptables	iptables-module-xt-iprange	1.8.7	GPL-2.0-or-later	iptables module xt-iprange
iptables	iptables-module-xt-ipvs	1.8.7	GPL-2.0-or-later	iptables module xt-ipvs
iptables	iptables-module-xt-led	1.8.7	GPL-2.0-or-later	iptables module xt-led

iptables	iptables-module-xt-length	1.8.7	GPL-2.0-or-later	iptables module xt-length
iptables	iptables-module-xt-limit	1.8.7	GPL-2.0-or-later	iptables module xt-limit
iptables	iptables-module-xt-mac	1.8.7	GPL-2.0-or-later	iptables module xt-mac
iptables	iptables-module-xt-mark	1.8.7	GPL-2.0-or-later	iptables module xt-mark
iptables	iptables-module-xt-multiport	1.8.7	GPL-2.0-or-later	iptables module xt-multiport
iptables	iptables-module-xt-nfacct	1.8.7	GPL-2.0-or-later	iptables module xt-nfacct
iptables	iptables-module-xt-nflog	1.8.7	GPL-2.0-or-later	iptables module xt-nflog
iptables	iptables-module-xt-nfqueue	1.8.7	GPL-2.0-or-later	iptables module xt-nfqueue
iptables	iptables-module-xt-osf	1.8.7	GPL-2.0-or-later	iptables module xt-osf
iptables	iptables-module-xt-owner	1.8.7	GPL-2.0-or-later	iptables module xt-owner
iptables	iptables-module-xt-physdev	1.8.7	GPL-2.0-or-later	iptables module xt-physdev

iptables	iptables-module-xt-pkttype	1.8.7	GPL-2.0-or-later	iptables module xt-pkttype
iptables	iptables-module-xt-policy	1.8.7	GPL-2.0-or-later	iptables module xt-policy
iptables	iptables-module-xt-quota	1.8.7	GPL-2.0-or-later	iptables module xt-quota
iptables	iptables-module-xt-rateest	1.8.7	GPL-2.0-or-later	iptables module xt-rateest
iptables	iptables-module-xt-recent	1.8.7	GPL-2.0-or-later	iptables module xt-recent
iptables	iptables-module-xt-rpfilter	1.8.7	GPL-2.0-or-later	iptables module xt-rpfilter
iptables	iptables-module-xt-sctp	1.8.7	GPL-2.0-or-later	iptables module xt-sctp
iptables	iptables-module-xt-secmark	1.8.7	GPL-2.0-or-later	iptables module xt-secmark
iptables	iptables-module-xt-set	1.8.7	GPL-2.0-or-later	iptables module xt-set
iptables	iptables-module-xt-socket	1.8.7	GPL-2.0-or-later	iptables module xt-socket
iptables	iptables-module-xt-standard	1.8.7	GPL-2.0-or-later	iptables module xt-standard

iptables	iptables-module-xt-statistic	1.8.7	GPL-2.0-or-later	iptables module xt-statistic
iptables	iptables-module-xt-string	1.8.7	GPL-2.0-or-later	iptables module xt-string
iptables	iptables-module-xt-synproxy	1.8.7	GPL-2.0-or-later	iptables module xt-synproxy
iptables	iptables-module-xt-tcp	1.8.7	GPL-2.0-or-later	iptables module xt-tcp
iptables	iptables-module-xt-tcpmss	1.8.7	GPL-2.0-or-later	iptables module xt-tcpmss
iptables	iptables-module-xt-tcptoptstrip	1.8.7	GPL-2.0-or-later	iptables module xt-tcptoptstrip
iptables	iptables-module-xt-tee	1.8.7	GPL-2.0-or-later	iptables module xt-tee
iptables	iptables-module-xt-time	1.8.7	GPL-2.0-or-later	iptables module xt-time
iptables	iptables-module-xt-tos	1.8.7	GPL-2.0-or-later	iptables module xt-tos
iptables	iptables-module-xt-tproxy	1.8.7	GPL-2.0-or-later	iptables module xt-tproxy
iptables	iptables-module-xt-trace	1.8.7	GPL-2.0-or-later	iptables module xt-trace

iptables	iptables-module-xt-u32	1.8.7	GPL-2.0-or-later	iptables module xt-u32
iptables	iptables-module-xt-udp	1.8.7	GPL-2.0-or-later	iptables module xt-udp
iputils	iputils-ping	20211215	BSD-3-Clause & GPL-2.0-or-later	Network monitoring tools
iw	iw	5.16	BSD-2-Clause	nl80211 based CLI configuration utility for wireless devices
linux-stm32mp	kernel-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	Linux STM32MP Kernel
linux-stm32mp	kernel-module-adv7180-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	adv7180 kernel module
linux-stm32mp	kernel-module-adv7604-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	adv7604 kernel module
linux-stm32mp	kernel-module-adxl34x-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	adxl34x kernel module
linux-stm32mp	kernel-module-adxl34x-i2c-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	adxl34x-i2c kernel module
linux-stm32mp	kernel-module-adxl34x-spi-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	adxl34x-spi kernel module
linux-stm32mp	kernel-module-aes-arm-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	aes-arm kernel module

linux-stm32mp	kernel-module-aes-arm-bs-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	aes-arm-bs kernel module
linux-stm32mp	kernel-module-aes-arm-ce-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	aes-arm-ce kernel module
linux-stm32mp	kernel-module-aes-generic-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	aes-generic kernel module
linux-stm32mp	kernel-module-af-alg-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	af-alg kernel module
linux-stm32mp	kernel-module-ah6-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	ah6 kernel module
linux-stm32mp	kernel-module-algif-aead-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	algif-aead kernel module
linux-stm32mp	kernel-module-algif-hash-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	algif-hash kernel module
linux-stm32mp	kernel-module-algif-rng-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	algif-rng kernel module
linux-stm32mp	kernel-module-algif-skcipher-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	algif-skcipher kernel module
linux-stm32mp	kernel-module-amlogic-gxl-crypto-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	amlogic-gxl-crypto kernel module
linux-stm32mp	kernel-module-analogix-dp-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	analogix-dp kernel module

linux-stm32mp	kernel-module- aspeed-pwm-tacho- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	aspeed-pwm-tacho kernel module
linux-stm32mp	kernel-module- aspeed-video- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	aspeed-video kernel module
linux-stm32mp	kernel-module- atmel-hlcdc-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	atmel-hlcdc kernel module
linux-stm32mp	kernel-module- atmel-hlcdc-dc- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	atmel-hlcdc-dc kernel module
linux-stm32mp	kernel-module- atmel-mxt-ts- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	atmel-mxt-ts kernel module
linux-stm32mp	kernel-module- axp20x-pek-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	axp20x-pek kernel module
linux-stm32mp	kernel-module- axp20x-usb-power- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	axp20x-usb-power kernel module
linux-stm32mp	kernel-module-b53- common-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	b53-common kernel module
linux-stm32mp	kernel-module-b53- mdio-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	b53-mdio kernel module

linux-stm32mp	kernel-module-b53-mmap-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	b53-mmap kernel module
linux-stm32mp	kernel-module-b53-serdes-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	b53-serdes kernel module
linux-stm32mp	kernel-module-b53-spi-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	b53-spi kernel module
linux-stm32mp	kernel-module-b53-srab-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	b53-srab kernel module
linux-stm32mp	kernel-module-bcm-sf2-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	bcm-sf2 kernel module
linux-stm32mp	kernel-module-bcm7xxx-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	bcm7xxx kernel module
linux-stm32mp	kernel-module-bcmsysport-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	bcmsysport kernel module
linux-stm32mp	kernel-module-bluetooth-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	bluetooth kernel module
linux-stm32mp	kernel-module-bq27xxx-battery-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	bq27xxx-battery kernel module
linux-stm32mp	kernel-module-bq27xxx-battery-i2c-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	bq27xxx-battery-i2c kernel module

linux-stm32mp	kernel-module- brcmfmac-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	brcmfmac kernel module
linux-stm32mp	kernel-module- brcmutil-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	brcmutil kernel module
linux-stm32mp	kernel-module- btbcm-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	btbcm kernel module
linux-stm32mp	kernel-module- btmrvl-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	btmrvl kernel module
linux-stm32mp	kernel-module- btmrvl-sdio-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	btmrvl-sdio kernel module
linux-stm32mp	kernel-module-ccm- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	ccm kernel module
linux-stm32mp	kernel-module-cdc- acm-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	cdc-acm kernel module
linux-stm32mp	kernel-module-cfb- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	cfb kernel module
linux-stm32mp	kernel-module- cfbcopyarea-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	cfbcopyarea kernel module
linux-stm32mp	kernel-module- cfbfillrect-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	cfbfillrect kernel module
linux-stm32mp	kernel-module- cfbimgblt-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	cfbimgblt kernel module

linux-stm32mp	kernel-module- cfg80211-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	cfg80211 kernel module
linux-stm32mp	kernel-module- chacha-neon- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	chacha-neon kernel module
linux-stm32mp	kernel-module-clk- rk808-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	clk-rk808 kernel module
linux-stm32mp	kernel-module-clk- s2mps11-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	clk-s2mps11 kernel module
linux-stm32mp	kernel-module- cm36651-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	cm36651 kernel module
linux-stm32mp	kernel-module-cmac- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	cmac kernel module
linux-stm32mp	kernel-module- counter-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	counter kernel module
linux-stm32mp	kernel-module- cpcap-adc-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	cpcap-adc kernel module
linux-stm32mp	kernel-module- cpcap-battery- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	cpcap-battery kernel module
linux-stm32mp	kernel-module- cpcap-pwrbutton- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	cpcap-pwrbutton kernel module

linux-stm32mp	kernel-module- cpufreq- conservative- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	cpufreq-conservative kernel module
linux-stm32mp	kernel-module- cpufreq-powersave- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	cpufreq-powersave kernel module
linux-stm32mp	kernel-module- cpufreq-userspace- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	cpufreq-userspace kernel module
linux-stm32mp	kernel-module-crc- ccitt-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	crc-ccitt kernel module
linux-stm32mp	kernel-module-crc- itu-t-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	crc-itu-t kernel module
linux-stm32mp	kernel-module- crc32-arm-ce- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	crc32-arm-ce kernel module
linux-stm32mp	kernel-module-crc4- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	crc4 kernel module
linux-stm32mp	kernel-module- cryptd-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	cryptd kernel module

linux-stm32mp	kernel-module- crypto-engine- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	crypto-engine kernel module
linux-stm32mp	kernel-module- crypto-simd-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	crypto-simd kernel module
linux-stm32mp	kernel-module- crypto-user-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	crypto-user kernel module
cryptodev- module	kernel-module- cryptodev-5.15.118	1.12	GPL-2.0-only	cryptodev kernel module
linux-stm32mp	kernel-module-ctr- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	ctr kernel module
linux-stm32mp	kernel-module- cyapatp-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	cyapatp kernel module
linux-stm32mp	kernel-module- da9063-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	da9063 kernel module
linux-stm32mp	kernel-module- da9063-onkey- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	da9063-onkey kernel module
linux-stm32mp	kernel-module- da9063-wdt-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	da9063-wdt kernel module
linux-stm32mp	kernel-module- dcmipp-bytecap- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	dcmipp-bytecap kernel module

linux-stm32mp	kernel-module-dcmipp-byteproc-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	dcmipp-byteproc kernel module
linux-stm32mp	kernel-module-dcmipp-parallel-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	dcmipp-parallel kernel module
linux-stm32mp	kernel-module-des-generic-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	des-generic kernel module
linux-stm32mp	kernel-module-drbg-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	drbg kernel module
linux-stm32mp	kernel-module-dsa-core-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	dsa-core kernel module
linux-stm32mp	kernel-module-dvb-core-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	dvb-core kernel module
linux-stm32mp	kernel-module-dw-hdmi-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	dw-hdmi kernel module
linux-stm32mp	kernel-module-dw-hdmi-imx-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	dw-hdmi-imx kernel module
linux-stm32mp	kernel-module-ecb-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	ecb kernel module
linux-stm32mp	kernel-module-ecc-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	ecc kernel module

linux-stm32mp	kernel-module-ecdh-generic-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	ecdh-generic kernel module
linux-stm32mp	kernel-module-echainiv-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	echainiv kernel module
linux-stm32mp	kernel-module-elants-i2c-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	elants-i2c kernel module
linux-stm32mp	kernel-module-esp6-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	esp6 kernel module
linux-stm32mp	kernel-module-etnaviv-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	etnaviv kernel module
linux-stm32mp	kernel-module-extcon-max14577-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	extcon-max14577 kernel module
linux-stm32mp	kernel-module-extcon-max77693-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	extcon-max77693 kernel module
linux-stm32mp	kernel-module-extcon-max8997-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	extcon-max8997 kernel module
linux-stm32mp	kernel-module-exynosdrm-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	exynosdrm kernel module
linux-stm32mp	kernel-module-ff-memless-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	ff-memless kernel module

linux-stm32mp	kernel-module-flexcan-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	flexcan kernel module
linux-stm32mp	kernel-module-font-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	font kernel module
linux-stm32mp	kernel-module-fsi-core-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	fsi-core kernel module
linux-stm32mp	kernel-module-fsi-master-aspeed-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	fsi-master-aspeed kernel module
linux-stm32mp	kernel-module-fsi-master-gpio-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	fsi-master-gpio kernel module
linux-stm32mp	kernel-module-fsi-master-hub-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	fsi-master-hub kernel module
linux-stm32mp	kernel-module-fsi-occ-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	fsi-occ kernel module
linux-stm32mp	kernel-module-fsi-sbefifo-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	fsi-sbefifo kernel module
linux-stm32mp	kernel-module-fsi-scom-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	fsi-scom kernel module
linux-stm32mp	kernel-module-fsl-dcu-drm-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	fsl-dcu-drm kernel module
linux-stm32mp	kernel-module-ftgmac100-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	ftgmac100 kernel module

linux-stm32mp	kernel-module-g-ether-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	g-ether kernel module
linux-stm32mp	kernel-module-gc2145-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	gc2145 kernel module
linux-stm32mp	kernel-module-gcm-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	gcm kernel module
linux-stm32mp	kernel-module-genet-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	genet kernel module
linux-stm32mp	kernel-module-gf128mul-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	gf128mul kernel module
linux-stm32mp	kernel-module-ghash-arm-ce-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	ghash-arm-ce kernel module
linux-stm32mp	kernel-module-ghash-generic-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	ghash-generic kernel module
linux-stm32mp	kernel-module-governor-passive-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	governor-passive kernel module
linux-stm32mp	kernel-module-gpio-charger-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	gpio-charger kernel module
linux-stm32mp	kernel-module-gpu-sched-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	gpu-sched kernel module

linux-stm32mp	kernel-module-hci-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	hci kernel module
linux-stm32mp	kernel-module-hci-uart-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	hci-uart kernel module
linux-stm32mp	kernel-module-hmac-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	hmac kernel module
linux-stm32mp	kernel-module-i2c-arb-gpio-challenge-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	i2c-arb-gpio-challenge kernel module
linux-stm32mp	kernel-module-imx-ipu-v3-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	imx-ipu-v3 kernel module
linux-stm32mp	kernel-module-imx-ldb-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	imx-ldb kernel module
linux-stm32mp	kernel-module-imx-tve-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	imx-tve kernel module
linux-stm32mp	kernel-module-imxdrm-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	imxdrm kernel module
linux-stm32mp	kernel-module-ina2xx-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	ina2xx kernel module
linux-stm32mp	kernel-module-industrialio-buffer-cb-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	industrialio-buffer-cb kernel module

linux-stm32mp	kernel-module-industrialio-hw-consumer-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	industrialio-hw-consumer kernel module
linux-stm32mp	kernel-module-ip6-tunnel-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	ip6-tunnel kernel module
linux-stm32mp	kernel-module-ipcomp6-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	ipcomp6 kernel module
linux-stm32mp	kernel-module-jitterentropy-rng-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	jitterentropy-rng kernel module
linux-stm32mp	kernel-module-led-class-flash-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	led-class-flash kernel module
linux-stm32mp	kernel-module-leds-cpcap-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	leds-cpcap kernel module
linux-stm32mp	kernel-module-leds-max77693-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	leds-max77693 kernel module
linux-stm32mp	kernel-module-leds-max8997-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	leds-max8997 kernel module
linux-stm32mp	kernel-module-ledtrig-audio-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	ledtrig-audio kernel module
linux-stm32mp	kernel-module-libaes-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	libaes kernel module

linux-stm32mp	kernel-module- libarc4-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	libarc4 kernel module
linux-stm32mp	kernel-module- libcomposite-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	libcomposite kernel module
linux-stm32mp	kernel-module- libdes-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	libdes kernel module
linux-stm32mp	kernel-module- libsha256-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	libsha256 kernel module
linux-stm32mp	kernel-module-lima- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	lima kernel module
linux-stm32mp	kernel-module-lrw- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	lrw kernel module
linux-stm32mp	kernel-module- mac80211-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	mac80211 kernel module
linux-stm32mp	kernel-module- max14577-charger- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	max14577-charger kernel module
linux-stm32mp	kernel-module- max14577-regulator- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	max14577-regulator kernel module
linux-stm32mp	kernel-module- max17040-battery- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	max17040-battery kernel module

linux-stm32mp	kernel-module- max17042-battery- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	max17042-battery kernel module
linux-stm32mp	kernel-module- max77693-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	max77693 kernel module
linux-stm32mp	kernel-module- max77693-charger- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	max77693-charger kernel module
linux-stm32mp	kernel-module- max77693-haptic- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	max77693-haptic kernel module
linux-stm32mp	kernel-module- max77693-regulator- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	max77693-regulator kernel module
linux-stm32mp	kernel-module- max8952-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	max8952 kernel module
linux-stm32mp	kernel-module- max8997-charger- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	max8997-charger kernel module
linux-stm32mp	kernel-module- max8997-haptic- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	max8997-haptic kernel module

linux-stm32mp	kernel-module-max8997-regulator-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	max8997-regulator kernel module
linux-stm32mp	kernel-module-max8998-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	max8998 kernel module
linux-stm32mp	kernel-module-max8998-charger-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	max8998-charger kernel module
linux-stm32mp	kernel-module-mc-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	mc kernel module
linux-stm32mp	kernel-module-mchp23k256-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	mchp23k256 kernel module
linux-stm32mp	kernel-module-md5-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	md5 kernel module
linux-stm32mp	kernel-module-mdio-bcm-unimac-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	mdio-bcm-unimac kernel module
linux-stm32mp	kernel-module-mip6-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	mip6 kernel module
linux-stm32mp	kernel-module-ml86v7667-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	ml86v7667 kernel module
linux-stm32mp	kernel-module-mms114-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	mms114 kernel module

linux-stm32mp	kernel-module-mwifiex-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	mwifiex kernel module
linux-stm32mp	kernel-module-mwifiex-sdio-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	mwifiex-sdio kernel module
linux-stm32mp	kernel-module-nci-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	nci kernel module
linux-stm32mp	kernel-module-nci-spi-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	nci-spi kernel module
linux-stm32mp	kernel-module-nci-uart-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	nci-uart kernel module
linux-stm32mp	kernel-module-nfc-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	nfc kernel module
linux-stm32mp	kernel-module-nfc-digital-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	nfc-digital kernel module
linux-stm32mp	kernel-module-ntc-thermistor-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	ntc-thermistor kernel module
linux-stm32mp	kernel-module-nvmem-rmem-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	nvmem-rmem kernel module
linux-stm32mp	kernel-module-nxp-ptn3460-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	nxp-ptn3460 kernel module
linux-stm32mp	kernel-module-ofb-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	ofb kernel module

linux-stm32mp	kernel-module- ov5640-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	ov5640 kernel module
linux-stm32mp	kernel-module- ov7670-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	ov7670 kernel module
linux-stm32mp	kernel-module-panel- samsung-lid9040- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	panel-samsung-lid9040 kernel module
linux-stm32mp	kernel-module-panel- samsung- s6e63j0x03-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	panel-samsung-s6e63j0x03 kernel module
linux-stm32mp	kernel-module-panel- samsung-s6e8aa0- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	panel-samsung-s6e8aa0 kernel module
linux-stm32mp	kernel-module- panfrost-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	panfrost kernel module
linux-stm32mp	kernel-module- parade-ps8622- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	parade-ps8622 kernel module
linux-stm32mp	kernel-module- parallel-display- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	parallel-display kernel module
linux-stm32mp	kernel-module-phy- am335x-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	phy-am335x kernel module

linux-stm32mp	kernel-module-phy-am335x-control-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	phy-am335x-control kernel module
linux-stm32mp	kernel-module-phy-cpcap-usb-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	phy-cpcap-usb kernel module
linux-stm32mp	kernel-module-phy-exynos-usb2-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	phy-exynos-usb2 kernel module
linux-stm32mp	kernel-module-pl111-drm-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	pl111-drm kernel module
linux-stm32mp	kernel-module-pwm-atmel-hlcdc-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	pwm-atmel-hlcdc kernel module
linux-stm32mp	kernel-module-pwm-fan-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	pwm-fan kernel module
linux-stm32mp	kernel-module-pwm-fsl-ftm-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	pwm-fsl-ftm kernel module
linux-stm32mp	kernel-module-pwm-stm32-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	pwm-stm32 kernel module
linux-stm32mp	kernel-module-pwm-stm32-lp-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	pwm-stm32-lp kernel module
linux-stm32mp	kernel-module-qt1070-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	qt1070 kernel module

linux-stm32mp	kernel-module- r8152-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	r8152 kernel module
linux-stm32mp	kernel-module- r8153-ecm-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	r8153-ecm kernel module
linux-stm32mp	kernel-module- r8a66597-hcd- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	r8a66597-hcd kernel module
linux-stm32mp	kernel-module- resistive-adc-touch- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	resistive-adc-touch kernel module
linux-stm32mp	kernel-module- rpmsg-client-sample- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	rpmsg-client-sample kernel module
linux-stm32mp	kernel-module- rpmsg-tty-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	rpmsg-tty kernel module
linux-stm32mp	kernel-module- rt2800lib-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	rt2800lib kernel module
linux-stm32mp	kernel-module- rt2800usb-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	rt2800usb kernel module
linux-stm32mp	kernel-module- rt2x00lib-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	rt2x00lib kernel module
linux-stm32mp	kernel-module- rt2x00usb-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	rt2x00usb kernel module

linux-stm32mp	kernel-module-rtc-bq32k-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	rtc-bq32k kernel module
linux-stm32mp	kernel-module-rtc-cpcap-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	rtc-cpcap kernel module
linux-stm32mp	kernel-module-rtc-da9063-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	rtc-da9063 kernel module
linux-stm32mp	kernel-module-rtc-hym8563-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	rtc-hym8563 kernel module
linux-stm32mp	kernel-module-rtc-max8997-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	rtc-max8997 kernel module
linux-stm32mp	kernel-module-rtc-max8998-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	rtc-max8998 kernel module
linux-stm32mp	kernel-module-rtc-pcf85363-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	rtc-pcf85363 kernel module
linux-stm32mp	kernel-module-rtc-rk808-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	rtc-rk808 kernel module
linux-stm32mp	kernel-module-rtc-rs5c372-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	rtc-rs5c372 kernel module
linux-stm32mp	kernel-module-rtc-rx8581-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	rtc-rx8581 kernel module
linux-stm32mp	kernel-module-rtc-s35390a-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	rtc-s35390a kernel module

linux-stm32mp	kernel-module-rtc-s5m-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	rtc-s5m kernel module
linux-stm32mp	kernel-module-s2mpa01-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	s2mpa01 kernel module
linux-stm32mp	kernel-module-s3fwrn5-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	s3fwrn5 kernel module
linux-stm32mp	kernel-module-s3fwrn5-i2c-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	s3fwrn5-i2c kernel module
linux-stm32mp	kernel-module-samsung-keypad-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	samsung-keypad kernel module
linux-stm32mp	kernel-module-seqiv-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	seqiv kernel module
linux-stm32mp	kernel-module-sha1-arm-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	sha1-arm kernel module
linux-stm32mp	kernel-module-sha1-arm-ce-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	sha1-arm-ce kernel module
linux-stm32mp	kernel-module-sha1-arm-neon-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	sha1-arm-neon kernel module
linux-stm32mp	kernel-module-sha2-arm-ce-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	sha2-arm-ce kernel module
linux-stm32mp	kernel-module-sha256-arm-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	sha256-arm kernel module

linux-stm32mp	kernel-module-sha256-generic-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	sha256-generic kernel module
linux-stm32mp	kernel-module-sha512-arm-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	sha512-arm kernel module
linux-stm32mp	kernel-module-sha512-generic-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	sha512-generic kernel module
linux-stm32mp	kernel-module-sii9234-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	sii9234 kernel module
linux-stm32mp	kernel-module-simple-bridge-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	simple-bridge kernel module
linux-stm32mp	kernel-module-snd-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	snd kernel module
linux-stm32mp	kernel-module-snd-hwdep-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	snd-hwdep kernel module
linux-stm32mp	kernel-module-snd-pcm-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	snd-pcm kernel module
linux-stm32mp	kernel-module-snd-pcm-dmaengine-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	snd-pcm-dmaengine kernel module

linux-stm32mp	kernel-module-snd-rawmidi-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	snd-rawmidi kernel module
linux-stm32mp	kernel-module-snd-soc-ak4642-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	snd-soc-ak4642 kernel module
linux-stm32mp	kernel-module-snd-soc-audio-graph-card-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	snd-soc-audio-graph-card kernel module
linux-stm32mp	kernel-module-snd-soc-core-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	snd-soc-core kernel module
linux-stm32mp	kernel-module-snd-soc-cpcap-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	snd-soc-cpcap kernel module
linux-stm32mp	kernel-module-snd-soc-cs42l51-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	snd-soc-cs42l51 kernel module
linux-stm32mp	kernel-module-snd-soc-cs42l51-i2c-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	snd-soc-cs42l51-i2c kernel module
linux-stm32mp	kernel-module-snd-soc-dmic-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	snd-soc-dmic kernel module
linux-stm32mp	kernel-module-snd-soc-fsl-sai-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	snd-soc-fsl-sai kernel module
linux-stm32mp	kernel-module-snd-soc-hdmi-codec-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	snd-soc-hdmi-codec kernel module

linux-stm32mp	kernel-module-snd-soc-rl6231-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	snd-soc-rl6231 kernel module
linux-stm32mp	kernel-module-snd-soc-rt5631-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	snd-soc-rt5631 kernel module
linux-stm32mp	kernel-module-snd-soc-rt5640-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	snd-soc-rt5640 kernel module
linux-stm32mp	kernel-module-snd-soc-sgtl5000-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	snd-soc-sgtl5000 kernel module
linux-stm32mp	kernel-module-snd-soc-simple-card-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	snd-soc-simple-card kernel module
linux-stm32mp	kernel-module-snd-soc-simple-card-utils-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	snd-soc-simple-card-utils kernel module
linux-stm32mp	kernel-module-snd-soc-spdif-rx-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	snd-soc-spdif-rx kernel module
linux-stm32mp	kernel-module-snd-soc-spdif-tx-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	snd-soc-spdif-tx kernel module
linux-stm32mp	kernel-module-snd-soc-sti-sas-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	snd-soc-sti-sas kernel module

linux-stm32mp	kernel-module-snd-soc-stm32-i2s-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	snd-soc-stm32-i2s kernel module
linux-stm32mp	kernel-module-snd-soc-stm32-sai-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	snd-soc-stm32-sai kernel module
linux-stm32mp	kernel-module-snd-soc-stm32-sai-sub-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	snd-soc-stm32-sai-sub kernel module
linux-stm32mp	kernel-module-snd-soc-stm32-spdifrx-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	snd-soc-stm32-spdifrx kernel module
linux-stm32mp	kernel-module-snd-soc-tlv320aic23-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	snd-soc-tlv320aic23 kernel module
linux-stm32mp	kernel-module-snd-soc-tlv320aic23-i2c-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	snd-soc-tlv320aic23-i2c kernel module
linux-stm32mp	kernel-module-snd-soc-ts3a227e-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	snd-soc-ts3a227e kernel module

linux-stm32mp	kernel-module-snd-soc-wm-hubs-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	snd-soc-wm-hubs kernel module
linux-stm32mp	kernel-module-snd-soc-wm8753-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	snd-soc-wm8753 kernel module
linux-stm32mp	kernel-module-snd-soc-wm8903-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	snd-soc-wm8903 kernel module
linux-stm32mp	kernel-module-snd-soc-wm8904-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	snd-soc-wm8904 kernel module
linux-stm32mp	kernel-module-snd-soc-wm8978-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	snd-soc-wm8978 kernel module
linux-stm32mp	kernel-module-snd-soc-wm8994-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	snd-soc-wm8994 kernel module
linux-stm32mp	kernel-module-snd-timer-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	snd-timer kernel module
linux-stm32mp	kernel-module-snd-usb-audio-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	snd-usb-audio kernel module

linux-stm32mp	kernel-module-snd-usbmidi-lib-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	snd-usbmidi-lib kernel module
linux-stm32mp	kernel-module-soundcore-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	soundcore kernel module
linux-stm32mp	kernel-module-spi-gpio-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	spi-gpio kernel module
linux-stm32mp	kernel-module-spi-rockchip-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	spi-rockchip kernel module
linux-stm32mp	kernel-module-spi-stm32-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	spi-stm32 kernel module
linux-stm32mp	kernel-module-st-lsm6dsx-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	st-lsm6dsx kernel module
linux-stm32mp	kernel-module-st-lsm6dsx-i2c-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	st-lsm6dsx-i2c kernel module
linux-stm32mp	kernel-module-st-lsm6dsx-spi-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	st-lsm6dsx-spi kernel module
linux-stm32mp	kernel-module-st-mipid02-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	st-mipid02 kernel module
linux-stm32mp	kernel-module-st-pressure-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	st-pressure kernel module
linux-stm32mp	kernel-module-st-pressure-i2c-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	st-pressure-i2c kernel module

linux-stm32mp	kernel-module-st-pressure-spi-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	st-pressure-spi kernel module
linux-stm32mp	kernel-module-st-sensors-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	st-sensors kernel module
linux-stm32mp	kernel-module-st-sensors-i2c-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	st-sensors-i2c kernel module
linux-stm32mp	kernel-module-st-sensors-spi-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	st-sensors-spi kernel module
linux-stm32mp	kernel-module-st1232-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	st1232 kernel module
linux-stm32mp	kernel-module-sti-drm-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	sti-drm kernel module
linux-stm32mp	kernel-module-stm32-adc-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	stm32-adc kernel module
linux-stm32mp	kernel-module-stm32-adc-core-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	stm32-adc-core kernel module
linux-stm32mp	kernel-module-stm32-adfsdm-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	stm32-adfsdm kernel module
linux-stm32mp	kernel-module-stm32-booster-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	stm32-booster kernel module

linux-stm32mp	kernel-module- stm32-cec-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	stm32-cec kernel module
linux-stm32mp	kernel-module- stm32-crc32- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	stm32-crc32 kernel module
linux-stm32mp	kernel-module- stm32-cryp-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	stm32-cryp kernel module
linux-stm32mp	kernel-module- stm32-dac-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	stm32-dac kernel module
linux-stm32mp	kernel-module- stm32-dac-core- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	stm32-dac-core kernel module
linux-stm32mp	kernel-module- stm32-dcmi-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	stm32-dcmi kernel module
linux-stm32mp	kernel-module- stm32-dcmipp- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	stm32-dcmipp kernel module
linux-stm32mp	kernel-module- stm32-ddr-pmu- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	stm32-ddr-pmu kernel module
linux-stm32mp	kernel-module- stm32-dfsdm-adc- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	stm32-dfsdm-adc kernel module

linux-stm32mp	kernel-module- stm32-dfsdm-core- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	stm32-dfsdm-core kernel module
linux-stm32mp	kernel-module- stm32-hash-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	stm32-hash kernel module
linux-stm32mp	kernel-module- stm32-lptimer- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	stm32-lptimer kernel module
linux-stm32mp	kernel-module- stm32-lptimer-cnt- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	stm32-lptimer-cnt kernel module
linux-stm32mp	kernel-module- stm32-lptimer- trigger-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	stm32-lptimer-trigger kernel module
linux-stm32mp	kernel-module- stm32-timer-cnt- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	stm32-timer-cnt kernel module
linux-stm32mp	kernel-module- stm32-timer-trigger- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	stm32-timer-trigger kernel module
linux-stm32mp	kernel-module- stm32-timers- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	stm32-timers kernel module

linux-stm32mp	kernel-module- stmpe-adc-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	stmpe-adc kernel module
linux-stm32mp	kernel-module- stusb160x-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	stusb160x kernel module
linux-stm32mp	kernel-module-tag- brcm-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	tag-brcm kernel module
linux-stm32mp	kernel-module- tc358764-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	tc358764 kernel module
linux-stm32mp	kernel-module- thermal-generic-adc- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	thermal-generic-adc kernel module
linux-stm32mp	kernel-module-tpm- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	tpm kernel module
linux-stm32mp	kernel-module-tpm- i2c-infineon-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	tpm-i2c-infineon kernel module
linux-stm32mp	kernel-module- tunnel6-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	tunnel6 kernel module
linux-stm32mp	kernel-module- typec-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	typec kernel module
linux-stm32mp	kernel-module- typec-ucsi-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	typec-ucsi kernel module
linux-stm32mp	kernel-module-u- audio-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	u-audio kernel module

linux-stm32mp	kernel-module-u-ether-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	u-ether kernel module
linux-stm32mp	kernel-module-u-serial-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	u-serial kernel module
linux-stm32mp	kernel-module-uas-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	uas kernel module
linux-stm32mp	kernel-module-ucsi-stm32g0-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	ucsi-stm32g0 kernel module
linux-stm32mp	kernel-module-uinput-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	uinput kernel module
linux-stm32mp	kernel-module-usb-f-acm-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	usb-f-acm kernel module
linux-stm32mp	kernel-module-usb-f-ecm-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	usb-f-ecm kernel module
linux-stm32mp	kernel-module-usb-f-ecm-subset-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	usb-f-ecm-subset kernel module
linux-stm32mp	kernel-module-usb-f-eem-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	usb-f-eem kernel module
linux-stm32mp	kernel-module-usb-f-fs-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	usb-f-fs kernel module
linux-stm32mp	kernel-module-usb-f-hid-5.15.118	5.15.118-stm32mp-r2.1	GPL-2.0-only	usb-f-hid kernel module

linux-stm32mp	kernel-module-usb- f-mass-storage- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	usb-f-mass-storage kernel module
linux-stm32mp	kernel-module-usb- f-midi-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	usb-f-midi kernel module
linux-stm32mp	kernel-module-usb- f-ncm-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	usb-f-ncm kernel module
linux-stm32mp	kernel-module-usb- f-obex-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	usb-f-obex kernel module
linux-stm32mp	kernel-module-usb- f-printer-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	usb-f-printer kernel module
linux-stm32mp	kernel-module-usb- f-serial-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	usb-f-serial kernel module
linux-stm32mp	kernel-module-usb- f-ss-lb-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	usb-f-ss-lb kernel module
linux-stm32mp	kernel-module-usb- f-uac1-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	usb-f-uac1 kernel module
linux-stm32mp	kernel-module-usb- f-uac1-legacy- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	usb-f-uac1-legacy kernel module
linux-stm32mp	kernel-module-usb- f-uac2-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	usb-f-uac2 kernel module

linux-stm32mp	kernel-module-usb-f- f-uvic-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	usb-f-uvic kernel module
linux-stm32mp	kernel-module-usbip- core-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	usbip-core kernel module
linux-stm32mp	kernel-module-usbip- host-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	usbip-host kernel module
linux-stm32mp	kernel-module- uvicvideo-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	uvicvideo kernel module
linux-stm32mp	kernel-module-v4l2- async-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	v4l2-async kernel module
linux-stm32mp	kernel-module-v4l2- dv-timings-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	v4l2-dv-timings kernel module
linux-stm32mp	kernel-module-v4l2- fwnode-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	v4l2-fwnode kernel module
linux-stm32mp	kernel-module-v4l2- tpg-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	v4l2-tpg kernel module
linux-stm32mp	kernel-module- vf610-adc-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	vf610-adc kernel module
linux-stm32mp	kernel-module- videobuf2-common- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	videobuf2-common kernel module

linux-stm32mp	kernel-module- videobuf2-dma- contig-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	videobuf2-dma-contig kernel module
linux-stm32mp	kernel-module- videobuf2-dma-sg- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	videobuf2-dma-sg kernel module
linux-stm32mp	kernel-module- videobuf2-memops- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	videobuf2-memops kernel module
linux-stm32mp	kernel-module- videobuf2-v4l2- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	videobuf2-v4l2 kernel module
linux-stm32mp	kernel-module- videobuf2-vmalloc- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	videobuf2-vmalloc kernel module
linux-stm32mp	kernel-module- videodev-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	videodev kernel module
linux-stm32mp	kernel-module-vivid- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	vivid kernel module
linux-stm32mp	kernel-module- wm8994-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	wm8994 kernel module
linux-stm32mp	kernel-module-xfrm- algo-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	xfrm-algo kernel module

linux-stm32mp	kernel-module-xfrm- ipcomp-5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	xfrm-ipcomp kernel module
linux-stm32mp	kernel-module- xfrm6-tunnel- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	xfrm6-tunnel kernel module
linux-stm32mp	kernel-module-xts- 5.15.118	5.15.118-stm32mp- r2.1	GPL-2.0-only	xts kernel module
linux-stm32mp	kernel-modules	5.15.118-stm32mp- r2.1	GPL-2.0-only	Linux STM32MP Kernel
keyutils	keyutils	1.6.1	LGPL-2.1-or-later & GPL-2.0-or-later	Linux Key Management Utilities
kmod	kmod	29	GPL-2.0-or-later & LGPL-2.1-or-later	Tools for managing Linux kernel modules
glibc	ldconfig	2.35	GPL-2.0-only & LGPL-2.1-only	GLIBC (GNU C Library)
gcc-sanitizers	libasan6	11.3.0	NCSA MIT	GNU cc and gcc C compilers
attr	libattr1	2.5.1	LGPL-2.1-or-later	Utilities for manipulating filesystem extended attributes
util-linux	libblkid1	2.37.4	LGPL-2.1-or-later	util-linux libblkid
bzip2	libbz2-1	1.0.8	bzip2-1.0.6	Very high-quality data compression program
glibc	libc6	2.35	GPL-2.0-only & LGPL-2.1-only	GLIBC (GNU C Library)

libcap	libcap	2.66	BSD-3-Clause GPL-2.0-only	Library for getting/setting POSIX.1e capabilities
e2fsprogs	libcom-err2	1.46.5	GPL-2.0-only & LGPL-2.0-only & BSD-3-Clause & MIT	Ext2 Filesystem Utilities
libxcrypt	libcrypt2	4.4.30	LGPL-2.1-only	Extended cryptographic library (from glibc)
openssl	libcrypto3	3.0.16	Apache-2.0	Secure Socket Layer
curl	libcurl4	7.82.0	curl	Command line tool and library for client-side URL transfers
dbus	libdbus-1-3	1.14.6	AFL-2.1 GPL-2.0-or-later	D-Bus message bus
e2fsprogs	libe2p2	1.46.5	GPL-2.0-only & LGPL-2.0-only & BSD-3-Clause & MIT	Ext2 Filesystem Utilities
expat	libexpat1	2.5.0	MIT	A stream-oriented XML parser library
e2fsprogs	libext2fs2	1.46.5	GPL-2.0-only & LGPL-2.0-only & BSD-3-Clause & MIT	Ext2 Filesystem Utilities
util-linux	libfdisk1	2.37.4	LGPL-2.1-or-later	util-linux libfdisk
libffi	libffi8	3.4.4	MIT	A portable foreign function interface library

libgcc	libgcc1	11.3.0	GPL-3.0-with-GCC-exception	GNU cc and gcc C compilers
glib-2.0	libglib-2.0-0	2.72.3	LGPL-2.1-or-later & BSD-3-Clause & PD	A general-purpose utility library
gmp	libgmp10	6.2.1	GPL-2.0-or-later LGPL-3.0-or-later	GNU multiprecision arithmetic library
gnutls	libgnutls30	3.7.4	LGPL-2.1-or-later	GNU Transport Layer Security Library
libgpod	libgpod-tools	1.6.3	LGPL-2.1-or-later	C library and tools for interacting with the linux GPIO character device
libgpod	libgpod2	1.6.3	LGPL-2.1-or-later	C library and tools for interacting with the linux GPIO character device
libidn2	libidn2-0	2.3.2	(GPL-2.0-or-later LGPL-3.0-only) & Unicode-DFS-2016	Internationalized Domain Name support library
jansson	libjansson4	2.13.1	MIT	Jansson is a C library for encoding, decoding and manipulating JSON data
libjpeg-turbo	libjpeg62	2.1.5.1	BSD-3-Clause	Hardware accelerated JPEG compression/decompression library

json-glib	libjson-glib-1.0-0	1.6.6	LGPL-2.1-only	JSON-GLib implements a full JSON parser using GLib and GObject
kmod	libkmod2	29	LGPL-2.1-or-later	Tools for managing Linux kernel modules
xz	liblzma5	5.2.6	PD	Utilities for managing LZMA compressed files
lzo	liblzo2-2	2.10	GPL-2.0-or-later	Lossless data compression library
libmnl	libmnl0	1.0.4	LGPL-2.1-or-later	Minimalistic user-space Netlink utility library
util-linux	libmount1	2.37.4	LGPL-2.1-or-later	util-linux libmount
libnftnl	libnftnl11	1.2.1	GPL-2.0-only	Library for low-level interaction with nftables Netlink's API over libmnl
libnl	libnl-3-200	3.5.0	LGPL-2.1-only	A library for applications dealing with netlink sockets
libnl	libnl-genl-3-200	3.5.0	LGPL-2.1-only	A library for applications dealing with netlink sockets
libnl	libnl-route-3-200	3.5.0	LGPL-2.1-only	A library for applications dealing with netlink sockets
libpam	libpam	1.5.2	GPL-2.0-or-later BSD-3-Clause	Linux-PAM (Pluggable Authentication Modules)
libpam	libpam-runtime	1.5.2	GPL-2.0-or-later BSD-3-Clause	Linux-PAM (Pluggable Authentication Modules)
libpcre	libpcre1	8.45	BSD-3-Clause	Perl Compatible Regular Expressions

libpng	libpng16-16	1.6.39	Libpng	PNG image format decoding library
python3	libpython3.10-1.0	3.10.9	PSF-2.0	The Python Programming Language
readline	libreadline8	8.1.2	GPL-3.0-or-later	Library for editing typed command lines
e2fsprogs	libss2	1.46.5	GPL-2.0-only & LGPL-2.0-only & BSD-3-Clause & MIT	Ext2 Filesystem Utilities
openssl	libssl3	3.0.16	Apache-2.0	Secure Socket Layer
gcc-runtime	libstdc++6	11.3.0	GPL-3.0-with-GCC-exception	GNU standard C++ library
ncurses	libtinfo5	6.3+20220423	MIT	ncurses tinfo library
libtirpc	libtirpc3	1.3.2	BSD-3-Clause	Transport-Independent RPC library
libubootenv	libubootenv-bin	0.3.2	LGPL-2.1-only	U-Boot libraries and tools to access environment
libubootenv	libubootenv0	0.3.2	LGPL-2.1-only	U-Boot libraries and tools to access environment
gcc-sanitizers	libubsan1	11.3.0	NCSA MIT	GNU cc and gcc C compilers
eudev	libudev1	3.2.10	LGPL-2.1-or-later	eudev is a fork of systemd's udev
libunistring	libunistring2	1.0	LGPL-3.0-or-later GPL-2.0-or-later	Library for manipulating C and Unicode strings
libusb1	libusb-1.0-0	1.0.26	LGPL-2.1-or-later	Userspace library to access USB (version 1.0)

util-linux-libuuid	libuuid1	2.37.4	BSD-3-Clause	A suite of basic system administration utilities
libxml2	libxml2	2.9.14	MIT	XML C Parser Library and Toolkit
libyaml	libyaml-0-2	0.2.5	MIT	LibYAML is a YAML 1.1 parser and emitter written in C.
zlib	libz1	1.2.11	Zlib	Zlib Compression Library
zstd	libzstd1	1.5.2	BSD-3-Clause & GPL-2.0-only	Zstandard – Fast real-time compression algorithm
lighttpd	lighttpd	1.4.67	BSD-3-Clause	Lightweight high-performance web server
lighttpd	lighttpd-module-access	1.4.67	BSD-3-Clause	Lighttpd module for access
lighttpd	lighttpd-module-accesslog	1.4.67	BSD-3-Clause	Lighttpd module for accesslog
lighttpd	lighttpd-module-alias	1.4.67	BSD-3-Clause	Lighttpd module for alias
lighttpd	lighttpd-module-auth	1.4.67	BSD-3-Clause	Lighttpd module for auth
lighttpd	lighttpd-module-authn-file	1.4.67	BSD-3-Clause	Lighttpd module for authn-file
lighttpd	lighttpd-module-cgi	1.4.67	BSD-3-Clause	Lighttpd module for cgi
lighttpd	lighttpd-module-dirlisting	1.4.67	BSD-3-Clause	Lighttpd module for dirlisting
lighttpd	lighttpd-module-fastcgi	1.4.67	BSD-3-Clause	Lighttpd module for fastcgi

lighttpd	lighttpd-module-indexfile	1.4.67	BSD-3-Clause	Lighttpd module for indexfile
lighttpd	lighttpd-module-openssl	1.4.67	BSD-3-Clause	Lighttpd module for openssl
lighttpd	lighttpd-module-staticfile	1.4.67	BSD-3-Clause	Lighttpd module for staticfile
lz4	lz4	1.9.4	BSD-2-Clause GPL-2.0-only	Extremely Fast Compression algorithm
mbedtls	mbedtls	2.28.2	Apache-2.0	Lightweight crypto and SSL/TLS library
modutils-initscripts	modutils-initscripts	1.0	MIT	Initscript for auto-loading kernel modules on boot
ncurses	ncurses-terminfo-base	6.3+20220423	MIT	The New Curses library
netbase	netbase	6.3	GPL-2.0-only	Basic TCP/IP networking support
nettle	nettle	3.7.3	LGPL-3.0-or-later GPL-2.0-or-later	A low level cryptographic library
nftables	nftables	1.0.2	GPL-2.0-only	Netfilter Tables userspace utilities
ntp	ntpdate	4.2.8p15	NTP	Network Time Protocol daemon and utilities
openssl	openssl	3.0.16	Apache-2.0	Secure Socket Layer
openssl	openssl-bin	3.0.16	Apache-2.0	Secure Socket Layer
openssl	openssl-conf	3.0.16	Apache-2.0	Secure Socket Layer

openssl	openssl-engines	3.0.16	Apache-2.0	Secure Socket Layer
openssl	openssl-ossf-module-legacy	3.0.16	Apache-2.0	Secure Socket Layer
optee-client	optee-client	3.16.0+gitAUTOINC+06db73b3f3	BSD-2-Clause	OPTEE Client
optee-stm32mp-addons	optee-stm32mp-addons	3.16.0.AUTOINC+3c3cb0ed91	BSD-3-Clause	OP-TEE STM32MP examples
optee-test	optee-test	3.16.0+gitAUTOINC+1cf0e6d2bd	BSD-2-Clause & GPL-2.0-only	OP-TEE sanity testsuite
libpam	pam-plugin-access	1.5.2	GPL-2.0-or-later BSD-3-Clause	PAM plugin for -access
libpam	pam-plugin-deny	1.5.2	GPL-2.0-or-later BSD-3-Clause	PAM plugin for -deny
libpam	pam-plugin-env	1.5.2	GPL-2.0-or-later BSD-3-Clause	PAM plugin for -env
libpam	pam-plugin-faildelay	1.5.2	GPL-2.0-or-later BSD-3-Clause	PAM plugin for -faildelay
libpam	pam-plugin-group	1.5.2	GPL-2.0-or-later BSD-3-Clause	PAM plugin for -group
libpam	pam-plugin-lastlog	1.5.2	GPL-2.0-or-later BSD-3-Clause	PAM plugin for -lastlog

libpam	pam-plugin-limits	1.5.2	GPL-2.0-or-later BSD-3-Clause	PAM plugin for -limits
libpam	pam-plugin-loginuid	1.5.2	GPL-2.0-or-later BSD-3-Clause	PAM plugin for -loginuid
libpam	pam-plugin-mail	1.5.2	GPL-2.0-or-later BSD-3-Clause	PAM plugin for -mail
libpam	pam-plugin-motd	1.5.2	GPL-2.0-or-later BSD-3-Clause	PAM plugin for -motd
libpam	pam-plugin-nologin	1.5.2	GPL-2.0-or-later BSD-3-Clause	PAM plugin for -nologin
libpam	pam-plugin-permit	1.5.2	GPL-2.0-or-later BSD-3-Clause	PAM plugin for -permit
libpam	pam-plugin-rootok	1.5.2	GPL-2.0-or-later BSD-3-Clause	PAM plugin for -rootok
libpam	pam-plugin-securetty	1.5.2	GPL-2.0-or-later BSD-3-Clause	PAM plugin for -securetty
libpam	pam-plugin-shells	1.5.2	GPL-2.0-or-later BSD-3-Clause	PAM plugin for -shells
libpam	pam-plugin-unix	1.5.2	GPL-2.0-or-later BSD-3-Clause	PAM plugin for -unix
libpam	pam-plugin-warn	1.5.2	GPL-2.0-or-later BSD-3-Clause	PAM plugin for -warn
python3	python3-audio	3.10.9	PSF-2.0	Python Audio Handling

python3	python3-codecs	3.10.9	PSF-2.0	Python codec
python3	python3-core	3.10.9	PSF-2.0	Python interpreter and core modules
python3	python3-crypt	3.10.9	PSF-2.0	Python basic cryptographic and hashing support
python3	python3-ctypes	3.10.9	PSF-2.0	Python C types support
python3	python3-datetime	3.10.9	PSF-2.0	Python calendar and time support
python3-dateutil	python3-dateutil	2.8.2	BSD-3-Clause & Apache-2.0	Extensions to the standard Python datetime module
python3	python3-email	3.10.9	PSF-2.0	Python email support
python3	python3-fcntl	3.10.9	PSF-2.0	Python's fcntl interface
python3	python3-html	3.10.9	PSF-2.0	Python HTML processing support
python3	python3-io	3.10.9	PSF-2.0	Python low-level I/O
python3	python3-json	3.10.9	PSF-2.0	Python JSON support
python3	python3-logging	3.10.9	PSF-2.0	Python logging support
python3	python3-math	3.10.9	PSF-2.0	Python math support
python3	python3-mime	3.10.9	PSF-2.0	Python MIME handling APIs
python3	python3-misc	3.10.9	PSF-2.0	The Python Programming Language
python3	python3-netclient	3.10.9	PSF-2.0	Python Internet Protocol clients
python3	python3-netserver	3.10.9	PSF-2.0	Python Internet Protocol servers
python3	python3-numbers	3.10.9	PSF-2.0	Python number APIs
python3	python3-pickle	3.10.9	PSF-2.0	Python serialisation/persistence support
python3	python3-pydoc	3.10.9	PSF-2.0	Python interactive help support

python3-pyobject	python3-pyobject	3.42.0	LGPL-2.1-only	Python GObject bindings
python3-pyyaml	python3-pyyaml	6.0	MIT	Python support for YAML
python3	python3-shell	3.10.9	PSF-2.0	Python shell-like functionality
python3-six	python3-six	1.16.0	MIT	Python 2 and 3 compatibility library
python3	python3-stringold	3.10.9	PSF-2.0	Python string APIs [deprecated]
python3	python3-threading	3.10.9	PSF-2.0	Python threading & synchronization support
python3	python3-xml	3.10.9	PSF-2.0	Python basic XML support
rauc	rauc	1.7	LGPL-2.1-or-later	rauc version 1.7-r0
rauc	rauc-mark-good	1.7	LGPL-2.1-or-later	rauc version 1.7-r0
rauc	rauc-service	1.7	LGPL-2.1-or-later	rauc version 1.7-r0
rpcbind	rpcbind	1.2.6	BSD-3-Clause	Universal Addresses to RPC Program Number Mapper
run-postinsts	run-postinsts	1.0	MIT	Runs postinstall scripts on first boot of the target device
shadow	shadow	4.11.1	BSD-3-Clause	Tools to change and administer password and group data
shadow	shadow-base	4.11.1	BSD-3-Clause	Tools to change and administer password and group data
shadow-securetty	shadow-securetty	4.6	MIT	Provider of the machine specific securetty file

shared-mime-info	shared-mime-info	2.1	GPL-2.0-only	Shared MIME type database and specification
squashfs-tools	squashfs-tools	4.5	GPL-2.0-only	Tools for manipulating SquashFS filesystems
strace	strace	5.16	LGPL-2.1-or-later & GPL-2.0-or-later	System call tracing tool
sysvinit	sysvinit	3.01	GPL-2.0-or-later	System-V like init
sysvinit-inittab	sysvinit-inittab	2.88dsf	GPL-2.0-only	Inittab configuration for SysVinit
sysvinit	sysvinit-pidof	3.01	GPL-2.0-or-later	System-V like init
u-boot-fw-config-stm32mp	u-boot-fw-config-stm32mp	2021.10	MIT	U-Boot bootloader fw_printenv/setenv utilities
udev-extraconf	udev-extraconf	1.1	MIT	Extra machine specific configuration files
opkg-utils	update-alternatives-opkg	0.5.0	GPL-2.0-or-later	Utility for managing the alternatives system
update-rc.d	update-rc.d	0.8	GPL-2.0-or-later	manage symlinks in /etc/rcN.d
usbutils	usbutils	014	GPL-2.0-or-later	Host side USB console utilities
util-linux	util-linux-blkid	2.37.4	GPL-2.0-or-later & LGPL-2.1-or-later & BSD-3-Clause & BSD-4-Clause	util-linux blkid

util-linux	util-linux-sulogin	2.37.4	GPL-2.0-or-later & LGPL-2.1-or-later & BSD-3-Clause & BSD-4-Clause	util-linux sulogin
watchdog	watchdog	5.16	GPL-2.0-or-later	Software watchdog
watchdog-config	watchdog-config	1.0	MIT	Software watchdog
wireless-regdb	wireless-regdb-static	2023.02.13	ISC	Wireless Central Regulatory Domain Database
wpa-suplicant	wpa-suplicant	2.10	BSD-3-Clause	Client for Wi-Fi Protected Access (WPA)
wpa-suplicant	wpa-suplicant-cli	2.10	BSD-3-Clause	Client for Wi-Fi Protected Access (WPA)
wpa-suplicant	wpa-suplicant-passphrase	2.10	BSD-3-Clause	Client for Wi-Fi Protected Access (WPA)

List of packages present on image (**image-userfs**)

Recipe Name	Package Name	Version	License	Description
linux-examples-stm32mp1	linux-examples-stm32mp1-userfs	5.4+AUTOINC+8e1c0b246c	MIT	ST STM32MP1 projects for Linux examples

List of packages present on image (image-resize-initrd)

Recipe Name	Package Name	Version	License	Description
busybox	busybox	1.35.0	GPL-2.0-only & bzip2-1.0.4	Tiny versions of many common UNIX utilities in a single small executable
e2fsprogs	e2fsprogs	1.46.5	GPL-2.0-only & LGPL-2.0-only & BSD-3-Clause & MIT	Ext2 Filesystem Utilities
e2fsprogs	e2fsprogs-badblocks	1.46.5	GPL-2.0-only	Ext2 Filesystem Utilities
e2fsprogs	e2fsprogs-dumpe2fs	1.46.5	GPL-2.0-only	Ext2 Filesystem Utilities
e2fsprogs	e2fsprogs-e2fsck	1.46.5	GPL-2.0-only	Ext2 Filesystem Utilities
e2fsprogs	e2fsprogs-mke2fs	1.46.5	GPL-2.0-only	Ext2 Filesystem Utilities
e2fsprogs	e2fsprogs-resize2fs	1.46.5	GPL-2.0-only & LGPL-2.0-only & BSD-3-Clause & MIT	Ext2 Filesystem Utilities
e2fsprogs	e2fsprogs-tune2fs	1.46.5	GPL-2.0-only	Ext2 Filesystem Utilities
eudev	eudev	3.2.10	GPL-2.0-or-later & LGPL-2.1-or-later	eudev is a fork of systemd's udev
initramfs-framework	initramfs-framework-base	1.0	MIT	Modular initramfs system
initramfs-framework	initramfs-module-rootfs	1.0	MIT	initramfs support for locating and mounting the root partition
initramfs-framework	initramfs-module-udev	1.0	MIT	initramfs support for udev

initrd-boot	initrd-boot	1.0	MIT	Resize init script
util-linux	libblkid1	2.37.4	GPL-2.1-or-later	util-linux libblkid
glibc	libc6	2.35	GPL-2.0-only & LGPL-2.1-only	GLIBC (GNU C Library)
e2fsprogs	libcom-err2	1.46.5	GPL-2.0-only & LGPL-2.0-only & BSD-3-Clause & MIT	Ext2 Filesystem Utilities
e2fsprogs	libe2p2	1.46.5	GPL-2.0-only & LGPL-2.0-only & BSD-3-Clause & MIT	Ext2 Filesystem Utilities
e2fsprogs	libext2fs2	1.46.5	GPL-2.0-only & LGPL-2.0-only & BSD-3-Clause & MIT	Ext2 Filesystem Utilities
kmod	libkmod2	29	LGPL-2.1-or-later	Tools for managing Linux kernel modules
xz	liblzma5	5.2.6	PD	Utilities for managing LZMA compressed files
e2fsprogs	libss2	1.46.5	GPL-2.0-only & LGPL-2.0-only & BSD-3-Clause & MIT	Ext2 Filesystem Utilities
util-linux-libuuid	libuuid1	2.37.4	BSD-3-Clause	A suite of basic system administration utilities
zlib	libz1	1.2.11	Zlib	Zlib Compression Library
opkg-utils	update-alternatives-opkg	0.5.0	GPL-2.0-or-later	Utility for managing the alternatives system

○ Additional Modules

7-Zip

- Git

<https://github.com/ip7z/7zip>

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7-Zip

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Igor Pavlov

OpenCV

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ittnotify

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John R. Hauser

2017 February 10

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mupdf (mutool)

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- Git

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freetype

- Git

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gumbo-parser

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jbig2dec

- Git

<https://github.com/ArtifexSoftware/jbig2dec>

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libjpeg

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The Independent JPEG Group's JPEG software

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README for release 9f of 14-Jan-2024

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This software is the work of Tom Lane, Guido Vollbeding, Philip Gladstone, Bill Allombert, Jim Boucher, Lee Crocker, Bob Friesenhahn, Ben Jackson, John Korejwa, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Ge' Weijers, and other members of the Independent JPEG Group.

IJG is not affiliated with the ISO/IEC JTC1/SC29/WG1 standards committee (previously known as JPEG, together with ITU-T SG16).

DOCUMENTATION ROADMAP

This file contains the following sections:

OVERVIEW	General description of JPEG and the IJG software.
LEGAL ISSUES	Copyright, lack of warranty, terms of distribution.
REFERENCES	Where to learn more about JPEG.
ARCHIVE LOCATIONS	Where to find newer versions of this software.
ACKNOWLEDGMENTS	Special thanks.
FILE FORMAT WARS	Software *not* to get.
TO DO	Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:

install.txt	How to configure and install the IJG software.
usage.txt	Usage instructions for cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom.
*.1	Unix-style man pages for programs (same info as usage.txt).
wizard.txt	Advanced usage instructions for JPEG wizards only.
cdaltui.txt	Description of alternate user interface for cjpeg/djpeg.
change.log	Version-to-version change highlights.

Programmer and internal documentation:

libjpeg.txt	How to use the JPEG library in your own programs.
example.c	Sample code for calling the JPEG library.
structure.txt	Overview of the JPEG library's internal structure.
filelist.txt	Road map of IJG files.
coderrules.txt	Coding style rules --- please read if you contribute code.

Please read at least the files `install.txt` and `usage.txt`. Some information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

OVERVIEW

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This package contains C software to implement JPEG image encoding, decoding, and transcoding. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and grayscale images.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application.

We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and

flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

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The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltmain.sh). Another support script, install-sh, is copyright by X Consortium but is also freely distributable.

REFERENCES

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We recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is

Wallace, Gregory K. "The JPEG Still Picture Compression Standard",
Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44.

(Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PDF file containing a revised version of Wallace's article is available at <https://www.ijg.org/files/Wallace.JPEG.pdf>. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG

sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...

The best currently available description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US\$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2).

Although this is by far the most detailed and comprehensive exposition of JPEG publicly available, we point out that it is still missing an explanation of the most essential properties and algorithms of the underlying DCT technology.

If you think that you know about DCT-based JPEG after reading this book, then you are in delusion. The real fundamentals and corresponding potential of DCT-based JPEG are not publicly known so far, and that is the reason for all the mistaken developments taking place in the image coding domain.

The original JPEG standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document

numbers ISO/IEC IS 10918-2, ITU-T T.83.

IJG JPEG 8 introduced an implementation of the JPEG SmartScale extension which is specified in two documents: A contributed document at ITU and ISO with title "ITU-T JPEG-Plus Proposal for Extending ITU-T T.81 for Advanced Image Coding", April 2006, Geneva, Switzerland. The latest version of this document is Revision 3. And a contributed document ISO/IEC JTC1/SC29/WG1 N 5799 with title "Evolution of JPEG", June/July 2011, Berlin, Germany.

IJG JPEG 9 introduces a reversible color transform for improved lossless compression which is described in a contributed document ISO/IEC JTC1/SC29/WG1 N 6080 with title "JPEG 9 Lossless Coding", June/July 2012, Paris, France.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, version 2. JFIF version 1 has been adopted as Recommendation ITU-T T.871 (05/2011) : Information technology - Digital compression and coding of continuous-tone still images: JPEG File Interchange Format (JFIF). It is available as a free download in PDF file format from <https://www.itu.int/rec/T-REC-T.871>. A PDF file of the older JFIF document is available at <https://www.w3.org/Graphics/JPEG/jfif3.pdf>.

The TIFF 6.0 file format specification can be obtained by FTP from <ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz>. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems.

IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from <https://www.ijg.org/files/>. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note.

ARCHIVE LOCATIONS

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The "official" archive site for this software is www.ijg.org. The most recent released version can always be found there in directory "files". This particular version will be archived in Windows-compatible "zip" archive format as <https://www.ijg.org/files/jpegsr9f.zip>, and in Unix-compatible "tar.gz" archive format as <https://www.ijg.org/files/jpegsr9f.tar.gz>.

The JPEG FAQ (Frequently Asked Questions) article is a source of some general information about JPEG. It is available on the World Wide Web at <http://www.faqs.org/faqs/jpeg-faq/>

and other news.answers archive sites, including the official news.answers archive at [rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/](ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/). If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body

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ACKNOWLEDGMENTS

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Thank to Juergen Bruder for providing me with a copy of the common DCT algorithm article, only to find out that I had come to the same result in a more direct and comprehensible way with a more generative approach.

Thank to Istvan Sebestyen and Joan L. Mitchell for inviting me to the ITU JPEG (Study Group 16) meeting in Geneva, Switzerland.

Thank to Thomas Wiegand and Gary Sullivan for inviting me to the Joint Video Team (MPEG & ITU) meeting in Geneva, Switzerland.

Thank to Thomas Richter and Daniel Lee for inviting me to the ISO/IEC JTC1/SC29/WG1 (previously known as JPEG, together with ITU-T SG16)

meeting in Berlin, Germany.

Thank to John Korejwa and Massimo Ballerini for inviting me to fruitful consultations in Boston, MA and Milan, Italy.

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Thank to Andrew Finkenstadt for hosting the ijg.org site.

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Thank to Lars Goehler, Andreas Heinecke, Sebastian Fuss, Yvonne Roebert, Andrej Werner, Ulf-Dietrich Braumann,

and Nina Ssymank for support and public relations.

FILE FORMAT WARS

The ISO/IEC JTC1/SC29/WG1 standards committee (previously known as JPEG, together with ITU-T SG16) currently promotes different formats containing the name "JPEG" which is misleading because these formats are incompatible with original DCT-based JPEG and are based on faulty technologies.

IJG therefore does not and will not support such momentary mistakes (see REFERENCES).

There exist also distributions under the name "OpenJPEG" promoting such kind of formats which is misleading because they don't support original JPEG images.

We have no sympathy for the promotion of inferior formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, interoperable format standards for JPEG files.

Don't use an incompatible file format!

(In any case, our decoder will remain capable of reading existing JPEG image files indefinitely.)

The ISO committee pretends to be "responsible for the popular JPEG" in their

public reports which is not true because they don't respond to actual requirements for the maintenance of the original JPEG specification.

Furthermore, the ISO committee pretends to "ensure interoperability" with their standards which is not true because their "standards" support only application-specific and proprietary use cases and contain mathematically incorrect code.

There are currently different distributions in circulation containing the name "libjpeg" which is misleading because they don't have the features and are incompatible with formats supported by actual IJG libjpeg distributions. One of those fakes is released by members of the ISO committee and just uses the name of libjpeg for misdirection of people, similar to the abuse of the name JPEG as described above, while having nothing in common with actual IJG libjpeg distributions and containing mathematically incorrect code.

The other one claims to be a "derivative" or "fork" of the original libjpeg, but violates the license conditions as described under LEGAL ISSUES above and violates basic C programming properties.

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TO DO

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Version 9 is the second release of a new generation JPEG standard to overcome the limitations of the original JPEG specification, and is the first true source reference JPEG codec. More features are being prepared for coming releases...

Please send bug reports, offers of help, etc. to jpeg-info@ijg.org.

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ax_thread

- Git

http://git.savannah.gnu.org/gitweb/?p=autoconf-archive.git;a=blob_plain;f=m4/ax_thread.m4

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azure-iot-sdk-c

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