

Open Source Software Attributions for Assist Display i.MX6 rootfs v3.05-rc9 09-Sep-2024

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1. List of used Open Source Components

Recipe / Component	Packages / Modules	Version
License, URL and Copyright information		
acl	acl libacl	2.2.53
Licenses: LGPLv2.1+ & GPLv2+ URL: http://savannah.nongnu.org/projects/acl/		
actionlib	actionlib	1.13.2-1
Licenses: BSD URL: http://www.ros.org/wiki/actionlib		
actionlib-msgs	actionlib-msgs	1.13.1-1
Licenses: BSD URL: http://wiki.ros.org/actionlib_msgs		
alsa-lib	alsa-conf alsa-lib	1.2.4
Licenses: LGPLv2.1 & GPLv2+ URL: http://www.alsa-project.org Copyright information: Copyright (c) 2003 by Abramo Bagnara < abramo@alsa-project.org >		
alsa-state	alsa-state alsa-states	0.2.0
Licenses: MIT URL: http://www.alsa-project.org/		
alsa-ucm-conf	alsa-ucm-conf	1.2.4
Licenses: BSD-3-Clause URL: https://alsa-project.org Copyright information: Copyright (c) 2019, Advanced Linux Sound Architecture (ALSA) project		
alsa-utils	alsa-utils-alsactl alsa-utils-amixer alsa-utils-aplay	1.2.4
Licenses: GPLv2 URL: http://www.alsa-project.org		
apr	apr	1.7.0
Licenses: Apache-2.0 URL: http://apr.apache.org/ Copyright information: Copyright (c) 1987, 1993, 1994 Copyright (c) 1996 by Internet Software Consortium. Copyright (c) 1992, 1993, 1995, 1996, 1997, 1988 Copyright (C) 2000 by Martin Pool < mbp@humblebug.org.au >		
apr-util	apr-util	1.6.1
Licenses: Apache-2.0 URL: http://apr.apache.org/		

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 Copyright (c) 1998-2011 Solar Designer and it is hereby released to the
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 Copyright (c) 1998, 1999, 2000 Thai Open Source Software Center Ltd
 Copyright (c) 1992-1996 Regents of the University of Michigan.

assistance-app	assistance-app	1.0
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Licenses: CLOSED

attr	attr libattr	2.5.1
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Licenses: LGPLv2.1+ & GPLv2+

URL: <http://savannah.nongnu.org/projects/attr/>

Copyright information:

Copyright (c) 2000-2002,2004 Silicon Graphics, Inc.
 Copyright (c) 2001-2003,2005 Silicon Graphics, Inc.

base-files	base-files	3.0.14
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Licenses: GPLv2

base-passwd	base-passwd	3.5.29
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Licenses: GPLv2

URL: <https://launchpad.net/base-passwd>

bash	bash	5.1
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Licenses: GPLv3+

URL: <http://tiswww.case.edu/php/chet/bash/bashtop.html>

bond	bond	1.8.6-1
------	------	---------

Licenses: BSD

URL: <http://www.ros.org/wiki/bond>

bondcpp	bondcpp	1.8.6-1
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Licenses: BSD

URL: <http://www.ros.org/wiki/bondcpp>

boost	boost boost-atomic boost-chrono boost-container boost-context boost-contract boost-coroutine boost-date-time boost-fiber boost-filesystem boost-graph boost-iostreams boost-locale boost-log boost-math boost-program-options boost-python boost-random boost-regex boost-serialization boost-system boost-test boost-thread	1.75.0
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	boost-timer boost-type-erasure boost-wave	
<p>Licenses: BSL-1.0 & MIT & Python-2.0 URL: http://www.boost.org/</p>		
brotili	brotili	1.0.9
<p>Licenses: MIT URL: https://github.com/google/brotli Copyright information: Copyright (c) 2009, 2010, 2013-2016 by the Brotli Authors.</p>		
busybox	busybox busybox-udhcp	1.33.1
<p>Licenses: GPLv2 & bzip2-1.0.4 URL: https://www.busybox.net Copyright information: copyright (C) 1996-2006 Julian R Seward. All</p>		
bzip2	bzip2 libbz2	1.0.8
<p>Licenses: bzip2-1.0.6 & GPLv3+ & Apache-2.0 & MS-PL & BSD-3-Clause & Zlib URL: https://sourceware.org/bzip2/ Copyright information: Copyright (c) 2009 The Go Authors. All rights reserved. copyright (C) 1996-2019 Julian R Seward. All Copyright (c) 2000,2001,2002,2003 ymnk, JCraft,Inc. All rights reserved. Copyright (C) 1995-2004 Jean-loup Gailly and Mark Adler</p>		
c-ares	c-ares	1.16.0
<p>Licenses: MIT URL: http://daniel.haxx.se/projects/c-ares/ Copyright information: Copyright (c) 2007 - 2018, Daniel Stenberg with many contributors, see AUTHORS</p>		
ca-certificates	ca-certificates	20211016
<p>Licenses: GPL-2.0+ & MPL-2.0 URL: http://packages.debian.org/sid/ca-certificates</p>		
cairo	cairo	1.16.0
<p>Licenses: (MPL-1.1 LGPLv2.1) & GPLv3+ URL: http://cairographics.org</p>		
catkin	catkin	0.8.10-1
<p>Licenses: BSD URL: http://wiki.ros.org/catkin</p>		
class-loader	class-loader	0.5.0-1
<p>Licenses: BSD URL: http://ros.org/wiki/class_loader</p>		
console-bridge	console-bridge	0.4.2
<p>Licenses: BSD Copyright information: Copyright (c) 2008, Willow Garage, Inc.</p>		
coreutils	coreutils	8.32

	coreutils-stdbuf	
<p>Licenses: GPLv3+</p> <p>URL: http://www.gnu.org/software/coreutils/</p>		
cpp-common	cpp-common	0.7.2-1
<p>Licenses: BSD</p> <p>URL: http://www.ros.org/wiki/cpp_common</p>		
cracklib	cracklib	2.9.5
<p>Licenses: LGPLv2.1+</p> <p>URL: https://github.com/cracklib/cracklib</p>		
cronie	cronie	1.5.5
<p>Licenses: ISC & BSD-3-Clause & BSD-2-Clause & GPLv2+</p> <p>URL: https://github.com/cronie-crond/cronie/</p> <p>Copyright information:</p> <p>Copyright (c) 2004 by Internet Systems Consortium, Inc. ("ISC")</p> <p>Copyright (c) 1997,2000 by Internet Software Consortium, Inc.</p> <p>Copyright (c) 1988, 1993, 1994</p> <p>Copyright (c) 1989, 1993</p>		
curl	libcurl	7.75.0
<p>Licenses: MIT</p> <p>URL: http://curl.haxx.se/</p> <p>Copyright information:</p> <p>Copyright (c) 1996 - 2021, Daniel Stenberg, <daniel@haxx.se>, and many</p>		
db	db	5.3.28
<p>Licenses: Sleepycat</p> <p>URL: https://www.oracle.com/database/technologies/related/berkeleydb.html</p> <p>Copyright information:</p> <p>Copyright (c) 1990, 2013 Oracle and/or its affiliates. All rights reserved.</p> <p>Copyright (c) 1990, 1993, 1994, 1995</p> <p>Copyright (c) 1995, 1996</p> <p>Copyright (c) 2000-2005 INRIA, France Telecom</p>		
dbus	dbus dbus-common dbus-lib dbus-tools	1.12.20
<p>Licenses: AFL-2.1 GPLv2+</p> <p>URL: https://dbus.freedesktop.org</p> <p>Copyright information:</p> <p>Copyright (C) 2003-2004 Lawrence E. Rosen. All rights</p>		
desktop-file-utils	desktop-file-utils	0.26
<p>Licenses: GPLv2+</p> <p>URL: http://www.freedesktop.org/wiki/Software/desktop-file-utils</p> <p>Copyright information:</p> <p>Copyright (C) 2007, 2008 Vincent Untz <vuntz@gnome.org></p> <p>Copyright (C) 2002, 2004 Red Hat, Inc.</p>		
diagnostic-msgs	diagnostic-msgs	1.13.1-1
<p>Licenses: BSD</p> <p>URL: http://wiki.ros.org/diagnostic_msgs</p>		
diagnostic-updater	diagnostic-updater	1.10.4-1

Licenses: BSD

URL: http://www.ros.org/wiki/diagnostic_updater

dnf	dnf dnf-locale-en-gb	4.6.0
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Licenses: GPLv2

URL: <https://github.com/rpm-software-management/dnf>

dosfstools	dosfstools	4.2
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Licenses: GPLv3

URL: <https://github.com/dosfstools/dosfstools>

dt-utils	dt-utils dt-utils-barebox-state	2021.03.0
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Licenses: GPLv2

URL: <http://git.pengutronix.de/?p=tools/dt-utils.git>

dynamic-reconfigure	dynamic-reconfigure	1.7.1-1
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Licenses: BSD

URL: http://ros.org/wiki/dynamic_reconfigure

e2fsprogs	e2fsprogs e2fsprogs-badblocks e2fsprogs-dumpe2fs e2fsprogs-e2fsck e2fsprogs-mke2fs libcomerr libe2p libext2fs libss	1.46.1
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Licenses: GPLv2 & LGPLv2 & BSD & MIT

URL: <http://e2fsprogs.sourceforge.net/>

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elfutils	libdw libelf	0.183
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Licenses: GPLv2 & GPLv2+ & LGPLv3+ & GPLv3+

URL: <https://sourceware.org/elfutils>

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ethtool	ethtool	5.10
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Licenses: GPLv2+

URL: <http://www.kernel.org/pub/software/network/ethtool/>

Copyright information:

Copyright (C) 1998 David S. Miller (davem@dm.cobaltmicro.com)

exfat-utils	exfat-utils	1.3.0
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Licenses: GPLv2

URL: <https://github.com/relan/exfat>

expat	expat	2.2.10
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Licenses: MIT

URL: <http://expat.sourceforge.net/>

Copyright information:

ffmpeg	ffmpeg libavcodec libavdevice libavfilter libavformat libavresample libavutil libswresample libswscale	4.3.2
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Licenses: BSD & GPLv2+ & LGPLv2.1+ & MIT
URL: <https://www.ffmpeg.org/>

file	file	5.39
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Licenses: BSD-2-Clause
URL: <http://www.darwinsys.com/file/>

firmware-imx	firmware-imx-vpu-imx6q	8.12
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Licenses: Proprietary

flac	libflac	1.3.3
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Licenses: GFDL-1.2 & GPLv2+ & LGPLv2.1+ & BSD
URL: <https://xiph.org/flac/>
Copyright information:
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fontconfig	fontconfig fontconfig-utils	2.13.1
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freetype	freetype	2.10.4
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URL: <http://www.freetype.org/>
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fribidi	fribidi	1.0.10
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Licenses: LGPLv2.1+
URL: <http://fribidi.org/>

gcc-runtime	libatomic libgomp libstdc++	10.2.0
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Licenses: GPL-3.0-with-GCC-exception

URL: <http://www.gnu.org/software/gcc/>

gdb	gdb gdbserver	10.1
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Licenses: GPLv2 & GPLv3 & LGPLv2 & LGPLv3

URL: <http://www.gnu.org/software/gdb/>

gdbm	gdbm gdbm-compat	1.19
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Licenses: GPLv3

URL: <http://www.gnu.org/software/gdbm/>

gdk-pixbuf	gdk-pixbuf gdk-pixbuf-bin gdk-pixbuf-locale-en-gb	2.40.0
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Licenses: LGPLv2.1+

URL: <https://wiki.gnome.org/Projects/GdkPixbuf>

Copyright information:

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gencpp	gencpp	0.6.5-1
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Licenses: BSD

URL: <https://github.com/ros/gencpp/issues>

genmsg	genmsg	0.5.16-1
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Licenses: BSD

URL: <http://wiki.ros.org/genmsg>

gennodejs	gennodejs	2.0.2-1
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Licenses: Apache-2.0

URL: <https://wiki.ros.org>

genpy	genpy	0.6.15-1
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Licenses: BSD

URL: <http://wiki.ros.org/genpy>

geometry-msgs	geometry-msgs	1.13.1-1
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Licenses: BSD

URL: http://wiki.ros.org/geometry_msgs

glib-2.0	glib-2.0 glib-2.0-locale-en-gb	2.66.7
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Licenses: LGPLv2.1+ & BSD & PD

URL: <https://developer.gnome.org/glib/>

Copyright information:

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glibc	glibc glibc-thread-db ldconfig	2.33
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Licenses: GPLv2 & LGPLv2.1

URL: <http://www.gnu.org/software/libc/libc.html>

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 Copyright (C) 1992 Eric Young
 Copyright (C) 1998 WIDE Project.
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glibc-locale	glibc-locale-en-gb locale-base-en-gb locale-base-en-us	2.33
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Licenses: GPLv2 & LGPLv2.1
 URL: <http://www.gnu.org/software/libc/libc.html>

glibc-mtrace	glibc-mtrace	2.33
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Licenses: GPLv2 & LGPLv2.1
 URL: <http://www.gnu.org/software/libc/libc.html>

glog	glog	0.4.0
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Licenses: BSD-3-Clause
 URL: <https://github.com/google/glog>
 Copyright information:
 Copyright (c) 2008, Google Inc.
 Copyright (c) 2003-2008, Jouni Malinen <j@w1.fi> and contributors

gmp	gmp	6.2.1
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Licenses: GPLv2+ | LGPLv3+
 URL: <http://gmplib.org/>

gnupg	gnupg gnupg-gpg	2.2.27
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Licenses: GPLv3 & LGPLv3
 URL: <http://www.gnupg.org/>

gnutls	gnutls	3.7.2
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Licenses: GPLv3+ & LGPLv2.1+
 URL: <https://gnutls.org/>

gpgme	gpgme python3-gpg	1.15.1
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Licenses: GPLv2+ & LGPLv2.1+
 URL: <http://www.gnupg.org/gpgme.html>
 Copyright information:
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 Copyright (C) 2001, 2002, 2003, 2004, 2010 g10 Code GmbH
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graphviz	graphviz	2.44.1
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Licenses: EPL-1.0
 URL: <http://www.graphviz.org>

gstreamer1.0	gstreamer1.0 gstreamer1.0-locale-en-gb	1.18.4
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Licenses: LGPLv2+
 URL: <http://gstreamer.freedesktop.org/>
 Copyright information:
 Copyright (C) 1999,2000 Erik Walthinsen <omega@cse.ogi.edu>

gstreamer1.0-plugins-bad	gstreamer1.0-plugins-bad-jpegformat gstreamer1.0-plugins-bad-locale-en-gb gstreamer1.0-plugins-bad-vidparsersbad libgstcodecparsers-1.0	1.18.4
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Licenses: GPLv2+ & LGPLv2+ & LGPLv2.1+

URL: <https://gstreamer.freedesktop.org/>

gstreamer1.0-plugins-base	gstreamer1.0-plugins-base gstreamer1.0-plugins-base-adder gstreamer1.0-plugins-base-alsa gstreamer1.0-plugins-base-app gstreamer1.0-plugins-base-apps gstreamer1.0-plugins-base-audioconvert gstreamer1.0-plugins-base-audiomixer gstreamer1.0-plugins-base-audiorate gstreamer1.0-plugins-base-audioresample gstreamer1.0-plugins-base-audiotestsrc gstreamer1.0-plugins-base-compositor gstreamer1.0-plugins-base-encoding gstreamer1.0-plugins-base-gio gstreamer1.0-plugins-base-locale-en-gb gstreamer1.0-plugins-base-meta gstreamer1.0-plugins-base-ogg gstreamer1.0-plugins-base-opengl gstreamer1.0-plugins-base-overlaycomposition gstreamer1.0-plugins-base-pango gstreamer1.0-plugins-base-pbtypes gstreamer1.0-plugins-base-playback gstreamer1.0-plugins-base-rawparse gstreamer1.0-plugins-base-subparse gstreamer1.0-plugins-base-tcp gstreamer1.0-plugins-base-theora gstreamer1.0-plugins-base-typefindfunctions gstreamer1.0-plugins-base-videoconvert gstreamer1.0-plugins-base-videorate gstreamer1.0-plugins-base-videoscale gstreamer1.0-plugins-base-videotestsrc gstreamer1.0-plugins-base-volume gstreamer1.0-plugins-base-vorbis libgstallocators-1.0 libgstapp-1.0 libgstaudio-1.0 libgstfft-1.0 libgstgl-1.0 libgstpbutils-1.0 libgsttrif-1.0 libgststrp-1.0 libgststrtp-1.0 libgststrsp-1.0 libgstsdsp-1.0 libgsttag-1.0 libgstvideo-1.0	1.18.4
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Licenses: GPLv2+ & LGPLv2+

URL: <https://gstreamer.freedesktop.org/>

gstreamer1.0-plugins-good	gstreamer1.0-plugins-good gstreamer1.0-plugins-good-alaw gstreamer1.0-plugins-good-alpha gstreamer1.0-plugins-good-alpha-color gstreamer1.0-plugins-good-apetag gstreamer1.0-plugins-good-audiofx gstreamer1.0-plugins-good-audioparsers gstreamer1.0-plugins-good-auparse gstreamer1.0-plugins-good-autodetect gstreamer1.0-plugins-good-avi	1.18.4
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gstreamer1.0-plugins-good-cutter
 gstreamer1.0-plugins-good-debug
 gstreamer1.0-plugins-good-deinterlace
 gstreamer1.0-plugins-good-dtmf
 gstreamer1.0-plugins-good-effectv
 gstreamer1.0-plugins-good-equalizer
 gstreamer1.0-plugins-good-flv
 gstreamer1.0-plugins-good-flxdec
 gstreamer1.0-plugins-good-goom
 gstreamer1.0-plugins-good-goom2k1
 gstreamer1.0-plugins-good-icydemux
 gstreamer1.0-plugins-good-id3demux
 gstreamer1.0-plugins-good-imagefreeze
 gstreamer1.0-plugins-good-interleave
 gstreamer1.0-plugins-good-isomp4
 gstreamer1.0-plugins-good-jpeg
 gstreamer1.0-plugins-good-level
 gstreamer1.0-plugins-good-locale-en-gb
 gstreamer1.0-plugins-good-matroska
 gstreamer1.0-plugins-good-meta
 gstreamer1.0-plugins-good-monoscope
 gstreamer1.0-plugins-good-mulaw
 gstreamer1.0-plugins-good-multifile
 gstreamer1.0-plugins-good-multipart
 gstreamer1.0-plugins-good-navigationtest
 gstreamer1.0-plugins-good-ossaudio
 gstreamer1.0-plugins-good-png
 gstreamer1.0-plugins-good-pulseaudio
 gstreamer1.0-plugins-good-qmlgl
 gstreamer1.0-plugins-good-replaygain
 gstreamer1.0-plugins-good-rtp
 gstreamer1.0-plugins-good-rtpmanager
 gstreamer1.0-plugins-good-rtsp
 gstreamer1.0-plugins-good-shapewipe
 gstreamer1.0-plugins-good-smpte
 gstreamer1.0-plugins-good-spectrum
 gstreamer1.0-plugins-good-taglib
 gstreamer1.0-plugins-good-udp
 gstreamer1.0-plugins-good-video4linux2
 gstreamer1.0-plugins-good-videobox
 gstreamer1.0-plugins-good-videocrop
 gstreamer1.0-plugins-good-videofilter
 gstreamer1.0-plugins-good-videomixer
 gstreamer1.0-plugins-good-wavenc
 gstreamer1.0-plugins-good-wavparse
 gstreamer1.0-plugins-good-y4menc

Licenses: GPLv2+ & LGPLv2.1+

URL: <https://gstreamer.freedesktop.org/>

Copyright information:

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 Copyright (C) 2001 David Robinson <David@Robinson.org>

harfbuzz	harfbuzz	2.7.4
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URL: <http://www.freedesktop.org/wiki/Software/HarfBuzz>

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hdparm	hdparm	9.60
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URL: <http://sourceforge.net/projects/hdparm/>

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htop	htop	3.0.5
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URL: <https://htop.dev>

Copyright information:

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icu	libicudata libicui18n libicuuc	68.2
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Licenses: ICU

URL: <http://site.icu-project.org/>

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 Copyright (c) 2013, LeRoy Benjamin Sharon

imx6-ddrstat	imx6-ddrstat	git-48f81f034e
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Licenses: MIT

iperf2	iperf2	2.0.13
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Licenses: BSD-2-Clause

URL: <https://sourceforge.net/projects/iperf2/>

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iproute2	iproute2 iproute2-ip	5.11.0
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Licenses: GPLv2+

URL: <http://www.linuxfoundation.org/collaborate/workgroups/networking/iproute2>

iptables	iptables iptables-module-ipt-ah iptables-module-ipt-clusterip iptables-module-ipt-dnat iptables-module-ipt-ecn iptables-module-ipt-icmp iptables-module-ipt-log iptables-module-ipt-masquerade iptables-module-ipt-netmap	1.8.7
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iptables-module-ipt-realm
iptables-module-ipt-redirect
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Firmware-agere

agere_sta_fw.bin -- 9.48 Hermes I
agere_ap_fw.bin -- 9.48 Hermes I

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The Linux driver architecture was based on two modules, the MSF (Module
specific functions) and the HCF (Hardware Control Functions). Included
in the HCF is run-time firmware (binary format) which is downloaded into
the RAM of the Hermes 1/2/2.5 WMAC.

This hex coded firmware is not based on any open source software and
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Hope this helps.

Sincerely,

Viren Pathare
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Firmware-amdgpu

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Firmware-amd-ucode

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Firmware-amlogic_vdec

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Firmware-broadcom_bcm43xx

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Firmware-chelsio_firmware

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Chelsio Communication Terminator 4/5 ethernet controller firmware

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Firmware-dib0700

Firmware provided by Patrick Boettcher <pboettcher@dibcom.fr> to Devin Heitmuller <dheitmuller@kernellabs.com> on October 8, 2009.

The USB firmware file "dvh-usb-dib0700.1.20.fw" for DiBcom's DiB0700, used together with the Linux driver module dvh-usb-dib0700, is provided under the following licensing terms:

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Firmware-go7007

The README file from the original package from Micronas appears below. Only the part about the firmware redistribution in section 0 is relevant, all other sections are completely obsolete.

----- WIS G07007SB Public Linux Driver -----

*** Please see the file RELEASE-NOTES for important last-minute updates ***

0. OVERVIEW AND LICENSING/DISCLAIMER

This driver kit contains Linux drivers for the WIS G07007SB multi-format video encoder. Only kernel version 2.6.x is supported. The video stream is available through the Video4Linux2 API and the audio stream is available through the ALSA API (or the OSS emulation layer of the ALSA system).

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1. SYSTEM REQUIREMENTS

This driver requires Linux kernel 2.6. Kernel 2.4 is not supported. Using kernel 2.6.10 or later is recommended, as earlier kernels are known to have unstable USB 2.0 support.

A fully built kernel source tree must be available. Typically this will be linked from "/lib/modules-<KERNEL VERSION>/build" for convenience. If this link does not exist, an extra parameter will need to be passed to the "make" command.

All vendor-built kernels should already be configured properly. However, for custom-built kernels, the following options need to be enabled in the kernel as built-in or modules:

CONFIG_HOTPLUG	- Support for hot-pluggable devices
CONFIG_MODULES	- Enable loadable module support
CONFIG_KMOD	- Automatic kernel module loading
CONFIG_FW_LOADER	- Hotplug firmware loading support
CONFIG_I2C	- I2C support
CONFIG_VIDEO_DEV	- Video For Linux
CONFIG_SOUND	- Sound card support
CONFIG_SND	- Advanced Linux Sound Architecture
CONFIG_USB	- Support for Host-side USB
CONFIG_USB_DEVICEFS	- USB device filesystem
CONFIG_USB_EHCI_HCD	- EHCI HCD (USB 2.0) support

Additionally, to use the example application, the following options need to be enabled in the ALSA section:

CONFIG_SND_MIXER_OSS	- OSS Mixer API
CONFIG_SND_PCM_OSS	- OSS PCM (digital audio) API

The hotplug scripts, along with the fxload utility, must also be installed. These scripts can be obtained from <<http://linux-hotplug.sourceforge.net/>>. Hotplugging is used for loading firmware into the Cypress EZ-USB chip using fxload and for loading firmware into the driver using the firmware agent.

2. COMPILING AND INSTALLING THE DRIVER

Most users should be able to compile the driver by simply running:

```
$ make
```

in the top-level directory of the driver kit. First the kernel modules will be built, followed by the example applications.

If the build system is unable to locate the kernel source tree for the currently-running kernel, or if the module should be built for a kernel other than the currently-running kernel, an additional parameter will need to be passed to make to specify the appropriate kernel source directory:

```
$ make KERNELSRC=/usr/src/linux-2.6.10-custom3
```

Once the compile completes, the driver and firmware files should be installed by running:

```
$ make install
```

The kernel modules will be placed in "/lib/modules-<KERNEL VERSION>/extra" and the firmware files will be placed in the appropriate hotplug firmware directory, usually /lib/firmware. In addition, USB maps and scripts will be placed in /etc/hotplug/usb to enable fxload to initialize the EZ-USB control chip when the device is connected.

3. PAL/SECAM TUNER CONFIGURATION (TV402U-EU only)

The PAL model of the Plextor ConvertX TV402U may require additional configuration to correctly select the appropriate TV frequency band and audio subchannel.

Users with a device other than the Plextor ConvertX TV402U-EU should skip this section.

The wide variety of PAL TV systems used in Europe requires that additional information about the local TV standards be passed to the driver in order to properly tune TV channels. The two necessary parameters are (a) the PAL TV band, and (b) the audio subchannel format in use.

In many cases, the appropriate TV band selection is passed to the driver from applications. However, in some cases, the application only specifies that the driver should use PAL but not the specific information about the appropriate TV band. To work around this issue, the correct TV band may be specified in the "force_band" parameter to the wis-sony-tuner module:

TV band	force_band
PAL B/G	B
PAL I	I
PAL D/K	D
SECAM L	L

If the "force_band" parameter is specified, the driver will ignore any TV band specified by applications and will always use the band provided in the module parameter.

The other parameter that can be specified is the audio subchannel format. There are several stereo audio carrier systems in use, including NICAM and three varieties of A2. To receive audio broadcast on one of these stereo carriers, the "force_mpx_mode" parameter must be specified to the wis-sony-tuner module.

TV band	Audio subcarrier	force_mpx_mode
PAL B/G	Mono (default)	1
PAL B/G	A2	2
PAL B/G	NICAM	3
PAL I	Mono (default)	4
PAL I	NICAM	5
PAL D/K	Mono (default)	6
PAL D/K	A2 (1)	7
PAL D/K	A2 (2)	8
PAL D/K	A2 (3)	9
PAL D/K	NICAM	10
SECAM L	Mono (default)	11
SECAM L	NICAM	12

If the "force_mpx_mode" parameter is not specified, the correct mono-only mode will be chosen based on the TV band. However, the tuner will not receive stereo audio or bilingual broadcasts correctly.

To pass the "force_band" or "force_mpx_mode" parameters to the wis-sony-tuner module, the following line must be added to the modprobe configuration file, which varies from one Linux distribution to another.

```
options wis-sony-tuner force_band=B force_mpx_mode=2
```

The above example would force the tuner to the PAL B/G TV band and receive stereo audio broadcasts on the A2 carrier.

To verify that the configuration has been placed in the correct location, execute:

```
$ modprobe -c | grep wis-sony-tuner
```

If the configuration line appears, then modprobe will pass the parameters correctly the next time the wis-sony-tuner module is loaded into the kernel.

4. TESTING THE DRIVER

Because few Linux applications are able to correctly capture from Video4Linux2 devices with only compressed formats supported, the new driver should be tested with the "gorecord" application in the apps/ directory.

First connect a video source to the device, such as a DVD player or VCR. This will be captured to a file for testing the driver. If an input source is unavailable, a test file can still be captured, but the video will be black and the audio will be silent.

This application will auto-detect the V4L2 and ALSA/OSS device names of the hardware and will record video and audio to an AVI file for a specified number of seconds. For example:

```
$ apps/gorecord -duration 60 capture.avi
```

If this application does not successfully record an AVI file, the error messages produced by gorecord and recorded in the system log (usually in /var/log/messages) should provide information to help resolve the problem.

Supplying no parameters to gorecord will cause it to probe the available devices and exit. Use the -help flag for usage information.

5. USING THE DRIVER

The V4L2 device implemented by the driver provides a standard compressed format API, within the following criteria:

- * Applications that only support the original Video4Linux1 API will not be able to communicate with this driver at all.
- * No raw video modes are supported, so applications like xawtv that expect only uncompressed video will not function.
- * Supported compression formats are: Motion-JPEG, MPEG1, MPEG2 and MPEG4.
- * MPEG video formats are delivered as Video Elementary Streams only. Program Stream (PS), Transport Stream (TS) and Packetized Elementary Stream (PES) formats are not supported.
- * Video parameters such as format and input port may not be changed while the encoder is active.
- * The audio capture device only functions when the video encoder is actively capturing video. Attempts to read from the audio device when the encoder is inactive will result in an I/O error.
- * The native format of the audio device is 48Khz 2-channel 16-bit little-endian PCM, delivered through the ALSA system. No audio compression is implemented in the hardware. ALSA may convert to other uncompressed formats on the fly.

The include/ directory contains a C header file describing non-standard features of the G070075B encoder, which are described below:

G07007IOC_S_COMP_PARAMS, G07007IOC_G_COMP_PARAMS

These ioctls are used to negotiate general compression parameters.

To query the current parameters, call the G07007IOC_G_COMP_PARAMS ioctl with a pointer to a struct go7007_comp_params. If the driver is not set to MPEG format, the EINVAL error code will be returned.

To change the current parameters, initialize all fields of a struct go7007_comp_params and call the G07007_IOC_S_COMP_PARAMS ioctl with a pointer to this structure. The driver will return the current parameters with any necessary changes to conform to the limitations of the hardware or current compression mode. Any or all fields can be set to zero to request a reasonable default value. If the driver is not set to MPEG format, the EINVAL error code will be returned. When I/O is in progress, the EBUSY error code will be returned.

Fields in struct go7007_comp_params:

`__u32 gop_size` The maximum number of frames in each Group Of Pictures; i.e. the maximum number of frames minus one between each key frame.

`__u32 max_b_frames` The maximum number of sequential bidirectionally-predicted frames. (B-frames are not yet supported.)

enum go7007_aspect_ratio aspect_ratio The aspect ratio to be encoded in the meta-data of the compressed format.

Choices are:
G07007_ASPECT_RATIO_1_1
G07007_ASPECT_RATIO_4_3_NTSC
G07007_ASPECT_RATIO_4_3_PAL
G07007_ASPECT_RATIO_16_9_NTSC
G07007_ASPECT_RATIO_16_9_PAL

`__u32 flags` Bit-wise OR of control flags (below)

Flags in struct go7007_comp_params:

G07007_COMP_CLOSED_GOP Only produce self-contained GOPs, used to produce streams appropriate for random seeking.

G07007_COMP_OMIT_SEQ_HEADER Omit the stream sequence header.

G07007IOC_S_MPEG_PARAMS, G07007IOC_G_MPEG_PARAMS

These ioctls are used to negotiate MPEG-specific stream parameters when the pixelformat has been set to V4L2_PIX_FMT_MPEG.

To query the current parameters, call the G07007IOC_G_MPEG_PARAMS ioctl with a pointer to a struct go7007_mpeg_params. If the driver is not set to MPEG format, the EINVAL error code will be returned.

To change the current parameters, initialize all fields of a struct go7007_mpeg_params and call the G07007_IOC_S_MPEG_PARAMS ioctl with a pointer to this structure. The driver will return the current parameters with any necessary changes to conform to the limitations of the hardware or selected MPEG mode. Any or all fields can be set to zero to request a reasonable default value. If the driver is not set to MPEG format, the EINVAL error code will be returned. When I/O is in progress, the EBUSY error code will be returned.

Fields in struct go7007_mpeg_params:

enum go7007_mpeg_video_standard mpeg_video_standard The MPEG video standard in which to compress the video.

Choices are:
G07007_MPEG_VIDEO_MPEG1
G07007_MPEG_VIDEO_MPEG2
G07007_MPEG_VIDEO_MPEG4

`__u32 flags` Bit-wise OR of control flags (below)

`__u32 pali` The profile and level indication to be stored in the sequence header. This is only used as an indicator to the decoder, and does not affect the MPEG features used in the video stream. Not valid for MPEG1.

Choices for MPEG2 are:
G07007_MPEG2_PROFILE_MAIN_MAIN

Choices for MPEG4 are:
G07007_MPEG4_PROFILE_S_L0
G07007_MPEG4_PROFILE_S_L1
G07007_MPEG4_PROFILE_S_L2
G07007_MPEG4_PROFILE_S_L3
G07007_MPEG4_PROFILE_ARTS_L1
G07007_MPEG4_PROFILE_ARTS_L2
G07007_MPEG4_PROFILE_ARTS_L3
G07007_MPEG4_PROFILE_ARTS_L4
G07007_MPEG4_PROFILE_AS_L0
G07007_MPEG4_PROFILE_AS_L1
G07007_MPEG4_PROFILE_AS_L2
G07007_MPEG4_PROFILE_AS_L3
G07007_MPEG4_PROFILE_AS_L4
G07007_MPEG4_PROFILE_AS_L5

Flags in struct go7007_mpeg_params:

G07007_MPEG_FORCE_DVD_MODE Force all compression parameters and bitrate control settings to comply with DVD MPEG2 stream requirements. This overrides most compression and bitrate settings!

G07007_MPEG_OMIT_GOP_HEADER Omit the GOP header.

G07007_MPEG_REPEAT_SEQHEADER Repeat the MPEG sequence header at the start of each GOP.

G07007IOC_S_BITRATE, G07007IOC_G_BITRATE

These ioctls are used to set and query the target bitrate value for the compressed video stream. The bitrate may be selected by storing the target bits per second in an int and calling G07007IOC_S_BITRATE with a pointer to the int. The bitrate may be queried by calling G07007IOC_G_BITRATE with a pointer to an int where the current bitrate will be stored.

Note that this is the primary means of controlling the video quality for all compression modes, including V4L2_PIX_FMT_MJPEG. The VIDIOC_S_JPEGCOMP ioctl is not supported.

----- Installing the WIS PCI Voyager Driver -----

The WIS PCI Voyager driver requires several patches to the Linux 2.6.11.x kernel source tree before compiling the driver. These patches update the in-kernel SAA7134 driver to the newest development version and patch bugs in the TDA8290/TDA8275 tuner driver.

The following patches must be downloaded from Gerd Knorr's website and applied in the order listed:

```
http://dl.bytesex.org/patches/2.6.11-2/i2c-tuner
http://dl.bytesex.org/patches/2.6.11-2/i2c-tuner2
http://dl.bytesex.org/patches/2.6.11-2/v4l2-api-mpeg
http://dl.bytesex.org/patches/2.6.11-2/saa7134-update
```

The following patches are included with this SDK and can be applied in any order:

```
patches/2.6.11/saa7134-voyager.diff
patches/2.6.11/tda8275-newaddr.diff
patches/2.6.11/tda8290-ntsc.diff
```

Check to make sure the CONFIG_VIDEO_SAA7134 option is enabled in the kernel configuration, and build and install the kernel.

After rebooting into the new kernel, the G07007 driver can be compiled and installed:

```
$ make SAA7134_BUILD=y
$ make install
$ modprobe saa7134-go7007
```

There will be two V4L video devices associated with the PCI Voyager. The first device (most likely /dev/video0) provides access to the raw video capture mode of the SAA7133 device and is used to configure the source video parameters and tune the TV tuner. This device can be used with xawtv or other V4L(2) video software as a standard uncompressed device.

The second device (most likely /dev/video1) provides access to the compression functions of the G07007. It can be tested using the gorecord application in the apps/ directory of this SDK:

```
$ apps/gorecord -vdevice /dev/video1 -noaudio test.avi
```

Currently the frame resolution is fixed at 720x480 (NTSC) or 720x576 (PAL), and the video standard must be specified to both the raw and the compressed video devices (xawtv and gorecord, for example).

----- RELEASE NOTES FOR WIS G07007SB LINUX DRIVER -----

Last updated: 5 November 2005

- Release 0.9.7 includes new support for using udev to run fxload. The install script should automatically detect whether the old hotplug scripts or the new udev rules should be used. To force the use of hotplug, run "make install USE_UDEV=n". To force the use of udev, run "make install USE_UDEV=y".
- Motion detection is supported but undocumented. Try the 'modet' app for a demonstration of how to use the facility.
- Using USB2.0 devices such as the TV402U with USB1.1 HCDs or hubs can cause buffer overruns and frame drops, even at low framerates, due to inconsistency in the bitrate control mechanism.
- On devices with an SAA7115, including the Plextor ConvertX, video height values of 96, 128, 160, 192, 256, 320, and 384 do not work in NTSC mode. All valid heights up to 512 work correctly in PAL mode.
- The WIS Star Trek and PCI Voyager boards have no support yet for audio or the TV tuner.

Firmware-GPLv2

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Firmware-qla2xxx

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Firmware-xc4000

The following XC4000 firmware file "dvb-fe-xc4000-1.4.1.fw" was created based on version 1.4 of "xc4000_firmwares.h".

Firmware provided as part of an XC4000 Linux developers kit by Brian Mathews <bmathews@xceive.com> to Devin Heitmueller <dheitmueller@kernellabs.org> on July 1, 2009.

The code was released by Xceive under the following license:

```
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```

Firmware-xc5000

The following XC5000 firmware file "dvb-fe-xc5000-1.6.114.fw" was created based on "xc5000_firmwares_32000Khz.h".

Firmware provided as part of an XC5000 Linux developers kit by Brian Mathews <bmathews@xceive.com> to Devin Heitmueller <dheitmueller@linuxtv.org> on July 1, 2009.

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```

Firmware-xc5000c

The following XC5000C firmware file "dvb-fe-xc5000C-4.1.30.7.fw" was created based on "Xc5200_firmwares_32000Khz.h".

Firmware provided as part of an XC5000C Linux developers kit by Ramon Cazares <Ramon.Cazares@CrestaTech.com> to Devin Heitmueller <dheitmueller@linuxtv.org> on July 25, 2012.

The code was released by Cresta Technology under the following license:

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```

WHENCE

```
*****
* WHENCE *
*****
```

This file attempts to document the origin and licensing information, if known, for each piece of firmware distributed for use with the Linux kernel.

Driver: BCM-0bb4-0306 Cypress Bluetooth firmware for HTC Vive

File: brcm/BCM-0bb4-0306.hcd
Link: brcm/BCM-0a5c-6410.hcd -> BCM-0bb4-0306.hcd

Licence: Redistributable. See LICENCE.cypress for details.

Driver: ambassador -- Madge Ambassador (Collage PCI 155 Server) ATM NIC.

File: atmsar11.fw

Licence: Allegedly GPLv2+, but no source visible. Marked:

Madge Ambassador ATM Adapter microcode.
Copyright (C) 1995-1999 Madge Networks Ltd.

This microcode data is placed under the terms of the GNU General Public License. The GPL is contained in /usr/doc/copyright/GPL on a Debian system and in the file COPYING in the Linux kernel source.

We would prefer you not to distribute modified versions without consultation and not to ask for assembly/other microcode source.

Driver: snd-korg1212 -- Korg 1212 IO audio device

File: korg/k1212.dsp

Licence: Unknown

Found in alsa-firmware package in hex form; no licensing information.

Driver: snd-maestro3 -- ESS Allegro Maestro3 audio device

File: ess/maestro3_assp_kernel.fw
File: ess/maestro3_assp_minisrc.fw

Licence: Unknown

Found in alsa-firmware package in hex form with a comment claiming to be GPLv2+, but without source -- and with another comment saying "ESS drops binary dsp code images on our heads, but we don't get to see specs on the dsp."

Driver: snd-ympci -- Yamaha YMF724/740/744/754 audio devices

File: yamaha/ds1_ctrl.fw
File: yamaha/ds1_dsp.fw
File: yamaha/ds1e_ctrl.fw

Licence: Unknown

Found alsa-firmware package in hex form, with the following comment:
Copyright (c) 1997-1999 Yamaha Corporation. All Rights Reserved.

Driver: advansys - AdvanSys SCSI

File: advansys/mcode.bin
File: advansys/3550.bin
File: advansys/38C0800.bin
File: advansys/38C1600.bin

Licence: BSD, no source available.

Found in hex form in kernel source.

Driver: qla1280 - Qlogic QLA 1240/1x80/1x160 SCSI support

File: qllogic/1040.bin
File: qllogic/1280.bin
File: qllogic/12160.bin

Licence: Redistributable. See LICENCE.qla1280 for details

Driver: smctr -- SMC ISA/MCA Token Ring adapter

File: tr_smctr.bin
Version: 6.3C1
Info: MCT.BIN v6.3C1 03/01/95

Original licence info:

* This firmware is licensed to you strictly for use in conjunction
* with the use of SMC TokenRing adapters. There is no warranty
* expressed or implied about its fitness for any purpose.

Driver: kaweth -- USB KLSI KLSUSB101-based Ethernet device

File: kaweth/new_code.bin
File: kaweth/new_code_fix.bin
File: kaweth/trigger_code.bin
File: kaweth/trigger_code_fix.bin

Licence: Redistributable. See LICENCE.kaweth for details

Found in hex form in the kernel source.

Driver: dvb-ttusb-budget -- Technotrend/Hauppage Nova-USB devices

File: ttusb-budget/dspbootcode.bin

Licence: Unknown

Found in hex form in the kernel source.

Driver: keyspan -- USB Keyspan USA-xxx serial device

File: keyspan/mpr.fw
File: keyspan/usa18x.fw
File: keyspan/usa19.fw
File: keyspan/usa19qi.fw
File: keyspan/usa19qw.fw
File: keyspan/usa19w.fw
File: keyspan/usa28.fw
File: keyspan/usa28xa.fw

File: keyspan/usa28xb.fw
File: keyspan/usa28x.fw
File: keyspan/usa49w.fw
File: keyspan/usa49wlc.fw

Converted from Intel HEX files, used in our binary representation of ihex.

Original licence information:

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Driver: keyspan_pda -- USB Keyspan PDA single-port serial device

File: keyspan_pda/keyspan_pda.fw
Source: keyspan_pda/keyspan_pda.S

File: keyspan_pda/xircom_pgs.fw
Source: keyspan_pda/xircom_pgs.S

Source: keyspan_pda/Makefile

Licence: GPLv2 or later. See GPL-2 and GPL-3 for details.

Compiled from original 8051 source into Intel HEX, used in our binary ihex form.

Driver: emi26 -- EMI 2|6 USB Audio interface

File: emi26/bitstream.fw
Version: 1.1.1.131
Info: DATE=2001dec06

File: emi26/firmware.fw
Version: 1.0.2.916
Info: DATE=12.02.2002

File: emi26/loader.fw

Converted from Intel HEX files, used in our binary representation of ihex.

Original licence information:

```
/*  
 * This firmware is for the Emagic EMI 2|6 Audio Interface  
 *  
 * The firmware contained herein is Copyright (c) 1999-2002 Emagic  
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 *  
 * This firmware may not be modified and may only be used with the  
 * Emagic EMI 2|6 Audio Interface. Distribution and/or Modification of  
 * any driver which includes this firmware, in whole or in part,  
 * requires the inclusion of this statement.  
 */
```

Driver: emi62 -- EMI 6|2m USB Audio interface

File: emi62/bitstream.fw
Version: 1.0.0.191
Info: DATE= 2002oct28

File: emi62/loader.fw
Version: 1.0.2.002
Info: DATE=10.01.2002

File: emi62/midi.fw
Version: 1.04.062
Info: DATE=16.10.2002

File: emi62/spdif.fw
Version: 1.04.062
Info: DATE=16.10.2002

Converted from Intel HEX files, used in our binary representation of ihex.

Original licence information: None

Driver: ti_usb_3410_5052 -- USB TI 3410/5052 serial device

File: ti_3410.fw
Info: firmware 9/10/04 FW3410_Special_StartWdogOnStartPort

File: ti_5052.fw
Info: firmware 9/18/04

Licence: Allegedly GPLv2+, but no source visible. Marked:
Copyright (C) 2004 Texas Instruments

Found in hex form in kernel source.

Driver: ti_usb_3410_5052 -- Multi-Tech USB cell modems

File: mts_cdma.fw
File: mts_gsm.fw
File: mts_edge.fw

Licence: "all firmware components are redistributable in binary form"
per support@multitech.com
Copyright (C) 2005 Multi-Tech Systems, Inc.

Found in hex form in ftp://ftp.multitech.com/wireless/wireless_linux.zip

Driver: ti_usb_3410_5052 -- Multi-Tech USB fax modems

File: mts_mt9234mu.fw
File: mts_mt9234zba.fw

Licence: Unknown

Driver: whiteheat -- USB ConnectTech WhiteHEAT serial device

File: whiteheat.fw
Version: 4.06

File: whiteheat_loader.fw

Licence: Allegedly GPLv2, but no source visible. Marked:
Copyright (C) 2000-2002 ConnectTech Inc

Debug loader claims the following behaviour:

- Port 1 LED flashes when the vend_ax program is running
- Port 2 LED flashes when any SETUP command arrives
- Port 3 LED flashes when any valid VENDOR request occurs
- Port 4 LED flashes when the EXTERNAL RAM DOWNLOAD request occurs

Converted from Intel HEX files, used in our binary representation of ihex.

Driver: ip2 -- Computone IntelliPort Plus serial device

File: intelliport2.bin

Licence: Unknown

Found in hex form in kernel source.

Driver: cpia2 -- cameras based on Vision's CPiA2

File: cpia2/stv0672_vp4.bin

Licence: Allegedly GPLv2+, but no source visible. Marked:
Copyright (C) 2001 STMicroelectronics, Inc.
Contact: steve.miller@st.com
Description: This file contains patch data for the CPiA2 (stv0672) VP4.

Found in hex form in kernel source.

Driver: dabusb -- Digital Audio Broadcasting (DAB) Receiver for USB and Linux

File: dabusb/firmware.fw
File: dabusb/bitstream.bin

Licence: Distributable

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Driver: vicam -- USB 3com HomeConnect (aka vicam)

File: vicam/firmware.fw

Licence: Unknown

Found in hex form in kernel source.

Driver: io_edgeport - USB Inside Out Edgeport Serial Driver

File: edgeport/boot.fw
File: edgeport/boot2.fw
File: edgeport/down.fw
File: edgeport/down2.fw

Licence: Allegedly GPLv2+, but no source visible. Marked:

/* Edgeport/4 Binary Image
/* Generated by HEX2C v1.06
/* Copyright (C) 1998 Inside Out Networks, All rights reserved.

Found in hex form in kernel source.

Driver: io_ti - USB Inside Out Edgeport Serial Driver
(TI Devices)

File: edgeport/down3.bin

Licence:

/* Edgeport Binary Image (for TI based products)
/* Generated by TIBin2C v2.00 (watchport)
/* Copyright (C) 2001 Inside Out Networks, All rights reserved.

Found in hex form in kernel source.

Driver: dsp56k - Atari DSP56k support

File: dsp56k/bootstrap.bin
Source: dsp56k/bootstrap.asm
Source: dsp56k/Makefile
Source: dsp56k/concat-bootstrap.pl

Licence: GPLv2 or later. See GPL-2 and GPL-3 for details.

DSP56001 assembler, buildable with a56 from
<http://www.zdomain.com/a56.html>

Driver: snd-sb16-csp - Sound Blaster 16/AWE CSP support

File: sb16/mulaw_main.csp
File: sb16/alaw_main.csp
File: sb16/ima_adpcm_init.csp
File: sb16/ima_adpcm_playback.csp

File: sb16/ima_adpcm_capture.csp

Licence: Allegedly GPLv2+, but no source visible. Marked:

```
/*
 * Copyright (c) 1994 Creative Technology Ltd.
 * Microcode files for SB16 Advanced Signal Processor
 */
```

Found in hex form in kernel source.

Driver: qla2xxx - QLogic QLA2XXX Fibre Channel

File: ql2100_fw.bin
Version: 1.19.38 TP
File: ql2200_fw.bin
Version: 2.02.08 TP
File: ql2300_fw.bin
Version: 3.03.20 IPX
File: ql2322_fw.bin
Version: 3.03.20 IPX
File: ql2400_fw.bin
Version: 8.07.00 MID
File: ql2500_fw.bin
Version: 8.07.00 MIDQ

Licence: Redistributable. See LICENCE.qla2xxx for details

Available from <http://ldriver.qlogic.com/firmware/>

Driver: orinoco - Agere/Prism/Symbol Orinoco support

File: agere_sta_fw.bin
Version: 9.48 Hermes I
File: agere_ap_fw.bin
Version: 9.48 Hermes I

Licence: Redistributable. See LICENCE.agere for details

Driver: ar9170 - Atheros 802.11n "otus" USB

File: ar9170-1.fw
File: ar9170-2.fw

Licence: Redistributable. See LICENCE.atheros_firmware for details

Driver: ath9k_htc - Atheros HTC devices (USB)

File: ar9271.fw
File: ar7010.fw
File: ar7010_1.1.fw
File: htc_9271.fw
Version: 1.3.1
File: htc_7010.fw
Version: 1.3.1

Licence: Redistributable. See LICENCE.atheros_firmware for details

File: ath9k_htc/htc_7010-1.4.0.fw
Version: 1.4.0
File: ath9k_htc/htc_9271-1.4.0.fw
Version: 1.4.0

Licence: Free software. See LICENCE.open-ath9k-htc-firmware for details

Driver: cassini - Sun Cassini

File: sun/cassini.bin

Licence: Unknown

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Driver: slicoss - Alacritech IS-NIC products

File: slicoss/gbdownload.sys
File: slicoss/gbrcvuocode.sys
File: slicoss/oasisdbgdownload.sys
File: slicoss/oasisdownload.sys
File: slicoss/oasisrcvuocode.sys

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Driver: sxg - Alacritech IS-NIC products

File: sxg/saharadownloadB.sys
File: sxg/saharadbgdownloadB.sys

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Driver: cxgb3 - Chelsio Terminator 3 1G/10G Ethernet adapter

File: cxgb3/t3b_psrsm-1.1.0.bin
File: cxgb3/t3c_psrsm-1.1.0.bin
File: cxgb3/t3fw-7.0.0.bin
File: cxgb3/t3fw-7.1.0.bin
File: cxgb3/t3fw-7.4.0.bin
File: cxgb3/t3fw-7.10.0.bin
File: cxgb3/t3fw-7.12.0.bin

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Driver: cxgb3 - Chelsio Terminator 3 1G/10G Ethernet adapter

File: cxgb3/ael2005_opt_edc.bin
File: cxgb3/ael2005_twx_edc.bin
File: cxgb3/ael2020_twx_edc.bin

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Found in hex form in kernel source.

Driver: cxgb4 - Chelsio Terminator 4/5/6 1/10/25/40/100G Ethernet adapter

File: cxgb4/t4fw-1.14.4.0.bin
File: cxgb4/t4fw-1.15.37.0.bin
File: cxgb4/t4fw-1.26.0.0.bin
Link: cxgb4/t4fw.bin -> t4fw-1.26.0.0.bin
File: cxgb4/t5fw-1.14.4.0.bin
File: cxgb4/t5fw-1.15.37.0.bin
File: cxgb4/t5fw-1.26.0.0.bin
Link: cxgb4/t5fw.bin -> t5fw-1.26.0.0.bin
File: cxgb4/t6fw-1.26.0.0.bin
Link: cxgb4/t6fw.bin -> t6fw-1.26.0.0.bin
File: cxgb4/aql202_fw.cld
File: cxgb4/bcm8483.bin
File: cxgb4/configs/t4-config-default.txt
File: cxgb4/configs/t5-config-default.txt
File: cxgb4/configs/t6-config-default.txt
File: cxgb4/configs/t5-config-hashfilter.txt
File: cxgb4/configs/t6-config-hashfilter.txt
Link: cxgb4/t4-config.txt -> configs/t4-config-default.txt
Link: cxgb4/t5-config.txt -> configs/t5-config-default.txt
Link: cxgb4/t6-config.txt -> configs/t6-config-default.txt

Licence: Redistributable. See LICENCE.chelsio_firmware for details

Driver: e100 -- Intel PRO/100 Ethernet NIC

File: e100/d101m_ucode.bin
File: e100/d101s_ucode.bin
File: e100/d102e_ucode.bin

Licence: Redistributable. See LICENCE.e100 for details

Driver: acenic -- Alteon AceNIC Gigabit Ethernet card

File: acenic/tg1.bin
File: acenic/tg2.bin

Licence: Unknown

Found in hex form in kernel source, but source allegedly available at
<http://alteon.shareable.org/>

Driver: tg3 -- Broadcom Tigon3 based gigabit Ethernet cards

File: tigon/tg3.bin
File: tigon/tg3_tso.bin
File: tigon/tg3_tso5.bin
File: tigon/tg357766.bin

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Found in hex form in kernel source.

Driver: starfire - Adaptec Starfire/DuraLAN support

File: adaptec/starfire_rx.bin
File: adaptec/starfire_tx.bin

Licence: Allegedly GPLv2, but no source visible.

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```
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Driver: i2400m-usb - Intel 2400 Wireless WiMAX Connection over USB

File: i2400m-fw-usb-1.4.sbcf
File: i2400m-fw-usb-1.5.sbcf
File: i6050-fw-usb-1.5.sbcf

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Also available from <http://linuxwimax.org/Download>

Driver: libertas - Marvell Libertas fullmac-type 802.11b/g cards

File: libertas/cf8381.bin
File: libertas/cf8381_helper.bin
File: libertas/cf8385.bin
File: libertas/cf8385_helper.bin
File: libertas/gspi8682.bin
File: libertas/gspi8682_helper.bin
File: libertas/gspi8686_v9.bin
File: libertas/gspi8686_v9_helper.bin
File: libertas/gspi8688.bin
File: libertas/gspi8688_helper.bin
File: libertas/sd8385.bin
File: libertas/sd8385_helper.bin
File: libertas/sd8682.bin
File: libertas/sd8682_helper.bin
File: libertas/sd8686_v8.bin
File: libertas/sd8686_v8_helper.bin
File: libertas/sd8686_v9.bin
File: libertas/sd8686_v9_helper.bin
File: libertas/usb8388_v5.bin
File: libertas/usb8388_v9.bin
File: libertas/usb8682.bin
File: mrvl/sd8688.bin
Link: libertas/sd8688.bin -> ../mrvl/sd8688.bin
File: mrvl/sd8688_helper.bin
Link: libertas/sd8688_helper.bin -> ../mrvl/sd8688_helper.bin

Licence: Redistributable. See LICENCE.Marvell for details. Extracted from Linux driver tarballs downloaded from Marvell's "Extranet" with permission.

Driver: libertas - Marvell Libertas 802.11b/g cards, OLPC firmware

File: libertas/lbtf_sdio.bin
Version: 9.0.7.p4

File: lbtf_usb.bin
Version: 5.132.3.pl

File: libertas/usb8388_olpc.bin
Version: 5.110.22.p23

Licence: Redistributable. See LICENCE.OLPC for details.

Available from <http://dev.laptop.org/pub/firmware/libertas/>

Driver: mwl8k - Marvell Libertas softmac-type 802.11b/g/n cards

File: mwl8k/fmimage_8687.fw
File: mwl8k/helper_8687.fw
File: mwl8k/fmimage_8366.fw
File: mwl8k/fmimage_8366_ap-1.fw
File: mwl8k/fmimage_8366_ap-2.fw
File: mwl8k/fmimage_8366_ap-3.fw
Version: 5.2.8.16
File: mwl8k/helper_8366.fw

File: mwl8k/fmimage_8764_ap-1.fw
Version: 7.4.0.9

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Driver: mwifiex - Marvell Wi-Fi fullmac-type 802.11n/ac cards

File: mrvl/sd8787_uapsta.bin
Version: W14.68.35.p66

File: mrvl/usb8766_uapsta.bin
Version: 14.68.22.p16

File: mrvl/sd8797_uapsta.bin
Version: W14.68.29.p59

File: mrvl/usb8797_uapsta.bin
Version: W14.68.29.p60

File: mrvl/sd8897_uapsta.bin
Version: W15.68.19.17

File: mrvl/usb8897_uapsta.bin
Version: 15.68.4.p103

File: mrvl/pcie8897_uapsta.bin
Version: W15.68.19.p21

File: mrvl/sd8887_uapsta.bin
Version: W15.68.7.p189

File: mrvl/sd8801_uapsta.bin
Version: W14.68.36.p204

File: mrvl/usb8801_uapsta.bin
Version: W14.68.36.p138

File: mrvl/pcieuart8997_combo_v4.bin
Version: W16.68.1.p179

File: mrvl/pcieusb8997_combo_v4.bin
Version: W16.68.1.p195

File: mrvl/pcie8997_wlan_v4.bin
Version: W16.68.1.p195

File: mrvl/usb8997_combo_v4.bin
Version: W16.68.1.p183

File: mrvl/sdsd8997_combo_v4.bin
Version: W16.68.1.p179

File: mrvl/sdsd8977_combo_v2.bin
Version: W16.68.1.p195

Licence: Redistributable. See LICENCE.NXP for details. Originates from <https://github.com/NXP/mwifiex-firmware.git>

Driver: iwlwifi - Intel Wireless Wifi

File: iwlwifi-3945-2.ucode
Version: 15.32.2.9

File: iwlwifi-4965-2.ucode
Version: 228.61.2.24

File: iwlwifi-5000-1.ucode
Version: 5.4.A.11 (aka 5.4.1.16)

File: iwlwifi-5000-2.ucode
Version: 8.24.2.12

File: iwlwifi-5000-5.ucode
Version: 8.83.5.1

File: iwlwifi-5150-2.ucode
Version: 8.24.2.2

File: iwlwifi-1000-3.ucode
Version: 128.50.3.1

File: iwlwifi-1000-5.ucode
Version: 39.31.5.1

File: iwlwifi-6000-4.ucode
Version: 9.221.4.1

File: iwlwifi-6050-4.ucode
Version: 9.201.4.1

File: iwlwifi-6050-5.ucode
Version: 41.28.5.1

File: iwlwifi-6000g2a-5.ucode
Version: 17.168.5.3

File: iwlwifi-6000g2a-6.ucode
Version: 18.168.6.1

File: iwlwifi-6000g2b-5.ucode
Version: 17.168.5.1

File: iwlwifi-6000g2b-6.ucode
Version: 18.168.6.1

File: iwlwifi-135-6.ucode
Version: 18.168.6.1

File: iwlwifi-100-5.ucode
Version: 39.31.5.1

File: iwlwifi-105-6.ucode
Version: 18.168.6.1

File: iwlwifi-2030-6.ucode
Version: 18.168.6.1

File: iwlwifi-2000-6.ucode
Version: 18.168.6.1

File: iwlwifi-7260-7.ucode
Version: 22.1.7.0

File: iwlwifi-7260-8.ucode
Version: 22.24.8.0

File: iwlwifi-7260-9.ucode
Version: 25.228.9.0

File: iwlwifi-7260-10.ucode
Version: 23.15.10.0

File: iwlwifi-7260-12.ucode
Version: 25.17.12.0

File: iwlwifi-7260-13.ucode
Version: 25.30.13.0

File: iwlwifi-7260-16.ucode
Version: 16.242414.0

File: iwlwifi-7260-17.ucode
Version: 17.bfb58538.0

File: iwlwifi-3160-7.ucode
Version: 22.1.7.0

File: iwlwifi-3160-8.ucode
Version: 22.24.8.0

File: iwlwifi-3160-9.ucode
Version: 25.228.9.0

File: iwlwifi-3160-10.ucode
Version: 23.15.10.0

File: iwlwifi-3160-12.ucode
Version: 25.17.12.0

File: iwlwifi-3160-13.ucode
Version: 25.30.13.0

File: iwlwifi-3160-16.ucode
Version: 16.242414.0

File: iwlwifi-3160-17.ucode
Version: 17.bfb58538.0

File: iwlwifi-7265-8.ucode
Version: 22.24.8.0

File: iwlwifi-7265-9.ucode
Version: 25.228.9.0

File: iwlwifi-7265-10.ucode
Version: 23.15.10.0

File: iwlwifi-7265-12.ucode
Version: 25.17.12.0

File: iwlwifi-7265-13.ucode
Version: 25.30.13.0

File: iwlwifi-7265-16.ucode
Version: 16.242414.0

File: iwlwifi-7265-17.ucode
Version: 17.bfb58538.0

Link: iwlwifi-72650-10.ucode -> iwlwifi-7265-10.ucode

File: iwlwifi-72650-12.ucode
Version: 25.17.12.0

File: iwlwifi-72650-13.ucode
Version: 25.30.13.0

File: iwlwifi-72650-16.ucode

Version: 16.242414.0
File: iwlwifi-72650-17.ucode
Version: 17.352738.0
File: iwlwifi-72650-21.ucode
Version: 21.302800.0
File: iwlwifi-72650-22.ucode
Version: 22.391740.0
File: iwlwifi-72650-27.ucode
Version: 27.541033.0
File: iwlwifi-72650-29.ucode
Version: 29.f2390aa8.0
File: iwlwifi-3168-21.ucode
Version: 21.302800.0
File: iwlwifi-3168-22.ucode
Version: 22.391740.0
File: iwlwifi-3168-27.ucode
Version: 27.541033.0
File: iwlwifi-3168-29.ucode
Version: 29.0bd893f3.0
File: iwlwifi-8000C-13.ucode
Version: 25.30.13.0
File: iwlwifi-8000C-16.ucode
Version: 16.242414.0
File: iwlwifi-8000C-21.ucode
Version: 21.302800.0
File: iwlwifi-8000C-22.ucode
Version: 22.391740.0
File: iwlwifi-8000C-27.ucode
Version: 27.541033.0
File: iwlwifi-8000C-31.ucode
Version: 31.560484.0
File: iwlwifi-8000C-34.ucode
Version: 34.610288.0
File: iwlwifi-8000C-36.ucode
Version: 36.ca7b901d.0
File: iwlwifi-8265-21.ucode
Version: 21.302800.0
File: iwlwifi-8265-22.ucode
Version: 22.391740.0
File: iwlwifi-8265-27.ucode
Version: 27.541033.0
File: iwlwifi-8265-31.ucode
Version: 31.560484.0
File: iwlwifi-8265-34.ucode
Version: 34.610288.0
File: iwlwifi-8265-36.ucode
Version: 36.ca7b901d.0
File: iwlwifi-9000-pu-b0-jf-b0-33.ucode
Version: 33.610294.0
File: iwlwifi-9000-pu-b0-jf-b0-34.ucode
Version: 34.ba501b11.0
File: iwlwifi-9000-pu-b0-jf-b0-38.ucode
Version: 38.755cfd8.0
File: iwlwifi-9000-pu-b0-jf-b0-41.ucode
Version: 41.fc1a7aea.0
File: iwlwifi-9000-pu-b0-jf-b0-43.ucode
Version: 43.95eb4e97.0
File: iwlwifi-9000-pu-b0-jf-b0-46.ucode
Version: 46.6b541b68.0
File: iwlwifi-9260-th-b0-jf-b0-33.ucode
Version: 33.610294.0
File: iwlwifi-9260-th-b0-jf-b0-34.ucode
Version: 34.ba501b11.0
File: iwlwifi-9260-th-b0-jf-b0-38.ucode
Version: 38.755cfd8.0
File: iwlwifi-9260-th-b0-jf-b0-41.ucode
Version: 41.fc1a7aea.0
File: iwlwifi-9260-th-b0-jf-b0-43.ucode
Version: 43.95eb4e97.0
File: iwlwifi-9260-th-b0-jf-b0-46.ucode
Version: 46.6b541b68.0
File: iwlwifi-cc-a0-46.ucode
Version: 46.3cfab0da.0
File: iwlwifi-cc-a0-48.ucode
Version: 48.4fa0041f.0
File: iwlwifi-Qu-b0-hr-b0-48.ucode
Version: 48.4fa0041f.0
File: iwlwifi-Qu-b0-jf-b0-48.ucode
Version: 48.4fa0041f.0
File: iwlwifi-Qu-c0-hr-b0-48.ucode
Version: 48.4fa0041f.0
File: iwlwifi-Qu-c0-jf-b0-48.ucode
Version: 48.4fa0041f.0
File: iwlwifi-QuZ-a0-hr-b0-48.ucode
Version: 48.4fa0041f.0
File: iwlwifi-QuZ-a0-jf-b0-48.ucode
Version: 48.4fa0041f.0
File: iwlwifi-cc-a0-50.ucode
Version: 50.3e391d3e.0

File: iwlwifi-Qu-b0-hr-b0-50.ucode
Version: 50.3e391d3e.0

File: iwlwifi-Qu-b0-jf-b0-50.ucode
Version: 50.3e391d3e.0

File: iwlwifi-Qu-c0-hr-b0-50.ucode
Version: 50.3e391d3e.0

File: iwlwifi-Qu-c0-jf-b0-50.ucode
Version: 50.3e391d3e.0

File: iwlwifi-QuZ-a0-hr-b0-50.ucode
Version: 50.3e391d3e.0

File: iwlwifi-QuZ-a0-jf-b0-50.ucode
Version: 50.3e391d3e.0

File: iwlwifi-cc-a0-53.ucode
Version: 53.c31ac674.0

File: iwlwifi-Qu-b0-hr-b0-53.ucode
Version: 53.c31ac674.0

File: iwlwifi-Qu-b0-jf-b0-53.ucode
Version: 53.c31ac674.0

File: iwlwifi-Qu-c0-hr-b0-53.ucode
Version: 53.c31ac674.0

File: iwlwifi-Qu-c0-jf-b0-53.ucode
Version: 53.c31ac674.0

File: iwlwifi-QuZ-a0-hr-b0-53.ucode
Version: 53.c31ac674.0

File: iwlwifi-QuZ-a0-jf-b0-53.ucode
Version: 53.c31ac674.0

File: iwlwifi-cc-a0-55.ucode
Version: 55.d9698065.0

File: iwlwifi-Qu-b0-hr-b0-55.ucode
Version: 55.d9698065.0

File: iwlwifi-Qu-b0-jf-b0-55.ucode
Version: 55.d9698065.0

File: iwlwifi-Qu-c0-hr-b0-55.ucode
Version: 55.d9698065.0

File: iwlwifi-Qu-c0-jf-b0-55.ucode
Version: 55.d9698065.0

File: iwlwifi-QuZ-a0-hr-b0-55.ucode
Version: 55.d9698065.0

File: iwlwifi-QuZ-a0-jf-b0-55.ucode
Version: 55.d9698065.0

File: iwlwifi-cc-a0-59.ucode
Version: 59.601f3a66.0

File: iwlwifi-Qu-b0-hr-b0-59.ucode
Version: 59.601f3a66.0

File: iwlwifi-Qu-b0-jf-b0-59.ucode
Version: 59.601f3a66.0

File: iwlwifi-Qu-c0-hr-b0-59.ucode
Version: 59.601f3a66.0

File: iwlwifi-Qu-c0-jf-b0-59.ucode
Version: 59.601f3a66.0

File: iwlwifi-QuZ-a0-hr-b0-59.ucode
Version: 59.601f3a66.0

File: iwlwifi-QuZ-a0-jf-b0-59.ucode
Version: 59.601f3a66.0

File: iwlwifi-so-a0-gf-a0-64.ucode
Version: 64.97bbe0a.0

File: iwlwifi-so-a0-gf-a0.pnvm

File: iwlwifi-so-a0-hr-b0-64.ucode
Version: 64.97bbe0a.0

File: iwlwifi-so-a0-jf-b0-64.ucode
Version: 64.97bbe0a.0

File: iwlwifi-ty-a0-gf-a0-59.ucode
Version: 59.601f3a66.0

File: iwlwifi-cc-a0-62.ucode
Version: 62.49eeb572.0

File: iwlwifi-Qu-b0-hr-b0-62.ucode
Version: 62.49eeb572.0

File: iwlwifi-Qu-b0-jf-b0-62.ucode
Version: 62.49eeb572.0

File: iwlwifi-Qu-c0-hr-b0-62.ucode
Version: 62.49eeb572.0

File: iwlwifi-Qu-c0-jf-b0-62.ucode
Version: 62.49eeb572.0

File: iwlwifi-QuZ-a0-hr-b0-62.ucode
Version: 62.49eeb572.0

File: iwlwifi-QuZ-a0-jf-b0-62.ucode
Version: 62.49eeb572.0

File: iwlwifi-ty-a0-gf-a0-62.ucode
Version: 62.49eeb572.0

File: iwlwifi-cc-a0-63.ucode
Version: 63.c04f3485.0

File: iwlwifi-Qu-b0-hr-b0-63.ucode
Version: 63.c04f3485.0

File: iwlwifi-Qu-b0-jf-b0-63.ucode
Version: 63.c04f3485.0

File: iwlwifi-Qu-c0-hr-b0-63.ucode
Version: 63.c04f3485.0

File: iwlwifi-Qu-c0-jf-b0-63.ucode

Version: 63.c04f3485.0

File: iwlwifi-QuZ-a0-hr-b0-63.ucode
Version: 63.c04f3485.0

File: iwlwifi-QuZ-a0-jf-b0-63.ucode
Version: 63.c04f3485.0

File: iwlwifi-ty-a0-gf-a0-63.ucode
Version: 63.c04f3485.0

File: iwlwifi-ty-a0-gf-a0-66.ucode
Version: 66.55c64978.0

File: iwlwifi-ty-a0-gf-a0.pnmv

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Also available from <http://wireless.kernel.org/en/users/Drivers/iwlwifi#Firmware>

Driver: ipu3-imgu - Intel IPU3 (3rd Gen Image Processing Unit) driver

File: intel/irci_irci_ecr-master_20161208_0213_20170112_1500.bin
Version: irci_irci_ecr-master_20161208_0213_20170112_1500
md5sum: 59abc311fce49c5a180b5a8a3917912d
Link: intel/ipu3-fw.bin -> irci_irci_ecr-master_20161208_0213_20170112_1500.bin

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Driver: cx231xx - Conexant Cx23100/101/102 USB broadcast A/V decoder

File: v4l-cx231xx-avcore-01.fw

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Driver: tehuti - Tehuti Networks 10G Ethernet

File: tehuti/bdx.bin

Licence:

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Found in hex form in kernel source.

Driver: typhoon - 3cr990 series Typhoon

File: 3com/typhoon.bin

Licence:

```
/*
 * Copyright 1999-2004 3Com Corporation. All Rights Reserved.
 *
 * Redistribution and use in source and binary forms of the 3c990img.h
 * microcode software are permitted provided that the following conditions
 * are met:
 * 1. Redistribution of source code must retain the above copyright
 * notice, this list of conditions and the following disclaimer.
 * 2. Redistribution in binary form must reproduce the above copyright
 * notice, this list of conditions and the following disclaimer in the
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 * derived from this software without specific prior written permission
 *
 * THIS SOFTWARE IS PROVIDED BY 3COM ``AS IS'' AND ANY EXPRESS OR
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 * OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
 * IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
 * INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
 * NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
 * DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
 * THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 * (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 * THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
 *
 * USER ACKNOWLEDGES AND AGREES THAT PURCHASE OR USE OF THE 3c990img.h
 * MICROCODE SOFTWARE WILL NOT CREATE OR GIVE GROUNDS FOR A LICENSE BY
 * IMPLICATION, ESTOPPEL, OR OTHERWISE IN ANY INTELLECTUAL PROPERTY RIGHTS
 * (PATENT, COPYRIGHT, TRADE SECRET, MASK WORK, OR OTHER PROPRIETARY RIGHT)
 * EMBODIED IN ANY OTHER 3COM HARDWARE OR SOFTWARE EITHER SOLELY OR IN
 * COMBINATION WITH THE 3c990img.h MICROCODE SOFTWARE
 */
```

Found in hex form in kernel source.

Driver: yam - YAM driver for AX.25

File: yam/1200.bin
File: yam/9600.bin

Licence:

* (C) F6FBB 1998

Found in hex form in kernel source.

Driver: 3c359 - 3Com 3C359 Token Link Velocity XL adapter

File: 3com/3C359.bin

Licence:

```
/*
 * The firmware this driver downloads into the tokenring card is a
 * separate program and is not GPL'd source code, even though the Linux
 * side driver and the routine that loads this data into the card are.
 *
 * This firmware is licensed to you strictly for use in conjunction
 * with the use of 3Com 3C359 TokenRing adapters. There is no
 * warranty expressed or implied about its fitness for any purpose.
 */
```

```
/* 3c359_microcode.mac: 3Com 3C359 Tokenring microcode.
 *
 * Notes:
 * - Loaded from xl_init upon adapter initialization.
 * Available from 3Com as part of their standard 3C359 driver.
 */
```

Found in hex form in kernel source.

Driver: pcnet_cs - NE2000 compatible PCMCIA adapter

File: cis/LA-PCM.cis
File: cis/PCMLM28.cis
File: cis/DP83903.cis
File: cis/NE2K.cis
File: cis/tamarack.cis
File: cis/PE-200.cis
File: cis/PE520.cis
Source: cis/

Licence: Dual GPLv2/MPL

Originally developed by the pcmcia-cs project
Copyright (C) 1998, 1999, 2000 David A. Hinds

Driver: 3c589_cs - 3Com PCMCIA adapter

File: cis/3CXEM556.cis
Source: cis/src/3CXEM556.cis

Licence: Dual GPLv2/MPL

Originally developed by the pcmcia-cs project
Copyright (C) 1998, 1999, 2000 David A. Hinds

Driver: 3c574_cs - 3Com PCMCIA adapter

File: cis/3CCFEM556.cis
Source: cis/src/3CCFEM556.cis

Licence: Dual GPLv2/MPL

Originally developed by the pcmcia-cs project
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Driver: serial_cs - Serial PCMCIA adapter

File: cis/MT5634ZLX.cis
File: cis/RS-COM-2P.cis
File: cis/COMpad2.cis
File: cis/COMpad4.cis
Source: cis/src/MT5634ZLX.cis
Source: cis/src/RS-COM-2P.cis
Source: cis/src/COMpad2.cis
Source: cis/src/COMpad4.cis

Licence: Dual GPLv2/MPL

Originally developed by the pcmcia-cs project
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Driver: serial_cs - Serial PCMCIA adapter

File: cis/SW_555_SER.cis
File: cis/SW_7xx_SER.cis
File: cis/SW_8xx_SER.cis

Licence: GPLv3. See GPL-3 for details.

Copyright Sierra Wireless

Driver: smc91c92_cs - SMC 91Cxx PCMCIA

File: ositech/Xilinx70D.bin

Licence: Allegedly GPL, but no source visible. Marked:
This file contains the firmware of Seven of Diamonds from OSITECH.
(Special thanks to Kevin MacPherson of OSITECH)

Found in hex form in kernel source.

Driver: cx23418 - Conexant PCI Broadcast A/V with MPEG encoder

File: v4l-cx23418-apu.fw
File: v4l-cx23418-cpu.fw
File: v4l-cx23418-dig.fw

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Driver: cx23885 - Conexant PCI Express Broadcast A/V decoder

File: v4l-cx23885-avcore-01.fw

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Driver: cx23840 - Conexant sideport Broadcast A/V decoder

File: v4l-cx25840.fw

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Driver: qllogicpti - PTI Qlogic, ISP Driver

File: qllogic/isp1000.bin

Licence: Unknown

Found in hex form in kernel source.

Driver: myri_sbus - MyriCOM Gigabit Ethernet

File: myricom/lanai.bin

Licence: Unknown

Found in hex form in kernel source.

Driver: bnx2x: Broadcom Everest

File: bnx2x-e1-4.8.53.0.fw
File: bnx2x-e1h-4.8.53.0.fw
File: bnx2x-e1-5.2.7.0.fw
File: bnx2x-e1h-5.2.7.0.fw
File: bnx2x-e1-5.2.13.0.fw
File: bnx2x-e1h-5.2.13.0.fw
File: bnx2x/bnx2x-e1-6.0.34.0.fw
File: bnx2x/bnx2x-e1h-6.0.34.0.fw
File: bnx2x/bnx2x-e2-6.0.34.0.fw
File: bnx2x/bnx2x-e1-6.2.5.0.fw
File: bnx2x/bnx2x-e1h-6.2.5.0.fw
File: bnx2x/bnx2x-e2-6.2.5.0.fw
File: bnx2x/bnx2x-e1-6.2.9.0.fw
File: bnx2x/bnx2x-e1h-6.2.9.0.fw
File: bnx2x/bnx2x-e2-6.2.9.0.fw
File: bnx2x/bnx2x-e2-7.0.20.0.fw
File: bnx2x/bnx2x-e1-7.0.20.0.fw
File: bnx2x/bnx2x-e1h-7.0.20.0.fw
File: bnx2x/bnx2x-e2-7.0.23.0.fw
File: bnx2x/bnx2x-e1-7.0.23.0.fw
File: bnx2x/bnx2x-e1h-7.0.23.0.fw
File: bnx2x/bnx2x-e2-7.0.29.0.fw
File: bnx2x/bnx2x-e1-7.0.29.0.fw
File: bnx2x/bnx2x-e1h-7.0.29.0.fw
File: bnx2x/bnx2x-e2-7.2.16.0.fw
File: bnx2x/bnx2x-e1-7.2.16.0.fw
File: bnx2x/bnx2x-e1h-7.2.16.0.fw
File: bnx2x/bnx2x-e2-7.2.51.0.fw
File: bnx2x/bnx2x-e1-7.2.51.0.fw
File: bnx2x/bnx2x-e1h-7.2.51.0.fw
File: bnx2x/bnx2x-e1-7.8.2.0.fw
File: bnx2x/bnx2x-e1h-7.8.2.0.fw
File: bnx2x/bnx2x-e2-7.8.2.0.fw
File: bnx2x/bnx2x-e1-7.8.17.0.fw
File: bnx2x/bnx2x-e1h-7.8.17.0.fw
File: bnx2x/bnx2x-e2-7.8.17.0.fw
File: bnx2x/bnx2x-e1-7.8.19.0.fw
File: bnx2x/bnx2x-e1h-7.8.19.0.fw
File: bnx2x/bnx2x-e2-7.8.19.0.fw
File: bnx2x/bnx2x-e1-7.10.51.0.fw
File: bnx2x/bnx2x-e1h-7.10.51.0.fw
File: bnx2x/bnx2x-e2-7.10.51.0.fw
File: bnx2x/bnx2x-e1-7.12.30.0.fw
File: bnx2x/bnx2x-e1h-7.12.30.0.fw
File: bnx2x/bnx2x-e2-7.12.30.0.fw
File: bnx2x/bnx2x-e1-7.13.1.0.fw
File: bnx2x/bnx2x-e1h-7.13.1.0.fw
File: bnx2x/bnx2x-e2-7.13.1.0.fw
File: bnx2x/bnx2x-e1-7.13.11.0.fw
File: bnx2x/bnx2x-e1h-7.13.11.0.fw
File: bnx2x/bnx2x-e2-7.13.11.0.fw
File: bnx2x/bnx2x-e1-7.13.15.0.fw
File: bnx2x/bnx2x-e1h-7.13.15.0.fw
File: bnx2x/bnx2x-e2-7.13.15.0.fw

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Found in hex form in kernel source.

Driver: bnx2 - Broadcom NetXtremeII

File: bnx2/bnx2-mips-06-4.6.16.fw
File: bnx2/bnx2-mips-06-5.0.0.j3.fw
File: bnx2/bnx2-mips-06-5.0.0.j6.fw
File: bnx2/bnx2-mips-06-6.0.15.fw
File: bnx2/bnx2-mips-06-6.2.1.fw
File: bnx2/bnx2-mips-06-6.2.3.fw
File: bnx2/bnx2-mips-09-4.6.17.fw
File: bnx2/bnx2-mips-09-5.0.0.j3.fw
File: bnx2/bnx2-mips-09-5.0.0.j9.fw
File: bnx2/bnx2-mips-09-5.0.0.j15.fw
File: bnx2/bnx2-mips-09-6.0.17.fw
File: bnx2/bnx2-mips-09-6.2.1.fw
File: bnx2/bnx2-mips-09-6.2.1a.fw
File: bnx2/bnx2-mips-09-6.2.1b.fw
File: bnx2/bnx2-rv2p-06-4.6.16.fw
File: bnx2/bnx2-rv2p-06-5.0.0.j3.fw
File: bnx2/bnx2-rv2p-06-6.0.15.fw
File: bnx2/bnx2-rv2p-09-4.6.15.fw
File: bnx2/bnx2-rv2p-09-5.0.0.j3.fw
File: bnx2/bnx2-rv2p-09-5.0.0.j10.fw
File: bnx2/bnx2-rv2p-09-6.0.17.fw
File: bnx2/bnx2-rv2p-09ax-5.0.0.j3.fw
File: bnx2/bnx2-rv2p-09ax-5.0.0.j10.fw
File: bnx2/bnx2-rv2p-09ax-6.0.17.fw

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Found in hex form in kernel source.

Driver: netxen_nic - NetXen Multi port (1/10) Gigabit Ethernet NIC

File: phanfw.bin
Version: 4.0.590

Licence: Redistributable. See LICENCE.phanfw for details.

Available from http://ldriver.qlogic.com/firmware/netxen_nic/new/

Driver: dvb-ttpci -- AV7110 cards

File: av7110/bootcode.bin
Source: av7110/Boot.S
Source: av7110/Makefile

Licence: GPLv2 or later. See GPL-2 and GPL-3 for details.

ARM assembly source code from <https://linuxtv.org/downloads/firmware/Boot.S>

Driver: snd-wavefront - ISA WaveFront sound card

File: yamaha/yss225_registers.bin

Licence: Allegedly GPLv2+, but no source visible.

Found in hex form in kernel source, with the following comment:
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Driver: rt61pci - Ralink RT2561, RT2561S, RT2661 wireless MACs

File: rt2561.bin
File: rt2561s.bin
File: rt2661.bin

Licence: Redistributable. See LICENCE.ralink-firmware.txt for details

Downloaded from <http://www.ralinktech.com/ralink/Home/Support/Linux.html>

Driver: rt73usb - Ralink RT2571W, RT2671 wireless MACs

File: rt73.bin

Licence: Redistributable. See LICENCE.ralink-firmware.txt for details

Downloaded from <http://www.ralinktech.com/ralink/Home/Support/Linux.html>

Driver: mt7601u - MediaTek MT7601U Wireless MACs

File: mt7601u.bin
Version: 34

Licence: Redistributable. See LICENCE.ralink_a_mediatek_company_firmware for details

Downloaded from <http://www.mediatek.com/en/downloads/>

Driver: rt2800pci - Ralink RT2860, RT2890, RT3090, RT3290, RT5390 wireless MACs

File: rt2860.bin
Version: 40

File: rt3290.bin
Version: 37

Licence: Redistributable. See LICENCE.ralink-firmware.txt for details

Binary file supplied originally by Shiang Tu <shiang_tu@ralinktech.com>, latest from <http://www.mediatek.com/en/downloads1/downloads/>

Driver: rt2860sta - Ralink RT3090 wireless MACs

Link: rt3090.bin -> rt2860.bin

Licence: Redistributable. See LICENCE.ralink-firmware.txt for details

Driver: rt2800usb - Ralink RT2870, RT3070, RT3071, RT3072, RT5370 wireless MACs

File: rt2870.bin
Version: 36

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Binary file supplied originally by Shiang Tu <shiang_tu@ralinktech.com>, latest from <http://www.mediatek.com/en/downloads1/downloads/>

Driver: rt2870sta - Ralink RT2870, RT3070, RT3071 wireless MACs

Link: rt3070.bin -> rt2870.bin
File: rt3071.bin

Licence: Redistributable. See LICENCE.ralink-firmware.txt for details

rt3071.bin is a copy of bytes 4096-8191 of rt2870.bin for compatibility.

Driver: usbdx/usbdxfast/usbdxsigma - usbdx data acquisition cards

File: usbdx_firmware.bin
File: usbdxfast_firmware.bin
File: usbdxsigma_firmware.bin
Source: usbdx/

Licence: GPLv2. See GPL-2 for details.

Provided from the author, Bernd Porr <BerndPorr@f2s.com>

Driver: xc4000 - Xceive 4000 Tuner driver

File: dvb-fe-xc4000-1.4.1.fw
Version: 1.4.1

Licence: Redistributable. See LICENCE.xc4000 for details

Driver: xc5000 - Xceive 5000 Tuner driver

File: dvb-fe-xc5000-1.6.114.fw
Version: 1.6.114

File: dvb-fe-xc5000c-4.1.30.7.fw
Version: 4.1.30.7

Licence: Redistributable. See LICENCE.xc5000 and LICENCE.xc5000c for details

Driver: dib0700 - DiBcom dib0700 USB DVB bridge driver

File: dvb-usb-dib0700-1.20.fw
Version: 1.20

Licence: Redistributable. See LICENCE.dib0700 for details

Driver: ath3k - DFU Driver for Atheros bluetooth chipset AR3011

File: ath3k-1.fw
Version: 1.0

Fix EEPROM radio table issue and change PID to 3005

Licence: Redistributable. See LICENCE.atheros_firmware for details

Driver: mga - Matrox G200/G400/G550

File: matrox/g200_warp.fw
File: matrox/g400_warp.fw

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Found in hex form in kernel source.

Driver: r128 - ATI Rage 128

File: r128/r128_cce.bin

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Found in decimal form in kernel source.

Driver: radeon - ATI Radeon

File: radeon/R100_cp.bin
File: radeon/R200_cp.bin
File: radeon/R300_cp.bin
File: radeon/R420_cp.bin
File: radeon/R5600_cp.bin
File: radeon/R5690_cp.bin
File: radeon/R520_cp.bin
File: radeon/R600_pfp.bin
File: radeon/R600_me.bin
File: radeon/RV610_pfp.bin
File: radeon/RV610_me.bin
File: radeon/RV630_pfp.bin
File: radeon/RV630_me.bin
File: radeon/RV620_pfp.bin
File: radeon/RV620_me.bin
File: radeon/RV635_pfp.bin
File: radeon/RV635_me.bin
File: radeon/RV670_pfp.bin
File: radeon/RV670_me.bin
File: radeon/R5780_pfp.bin
File: radeon/R5780_me.bin
File: radeon/RV770_pfp.bin

File: radeon/RV770_me.bin
File: radeon/RV730_pfp.bin
File: radeon/RV730_me.bin
File: radeon/RV710_pfp.bin
File: radeon/RV710_me.bin

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Found in hex form in kernel source.

Driver: radeon - ATI Radeon

File: radeon/R600_rlc.bin
File: radeon/R600_uvd.bin
File: radeon/RS780_uvd.bin
File: radeon/R700_rlc.bin
File: radeon/RV710_uvd.bin
File: radeon/RV710_smc.bin
File: radeon/RV730_smc.bin
File: radeon/RV740_smc.bin
File: radeon/RV770_smc.bin
File: radeon/RV770_uvd.bin
File: radeon/CEDAR_me.bin
File: radeon/CEDAR_pfp.bin
File: radeon/CEDAR_rlc.bin
File: radeon/CEDAR_smc.bin
File: radeon/CYPRESS_me.bin
File: radeon/CYPRESS_pfp.bin
File: radeon/CYPRESS_rlc.bin
File: radeon/CYPRESS_uvd.bin
File: radeon/CYPRESS_smc.bin
File: radeon/JUNIPER_me.bin
File: radeon/JUNIPER_pfp.bin
File: radeon/JUNIPER_rlc.bin
File: radeon/JUNIPER_smc.bin
File: radeon/REDWOOD_me.bin
File: radeon/REDWOOD_pfp.bin
File: radeon/REDWOOD_rlc.bin
File: radeon/REDWOOD_smc.bin
File: radeon/PALM_me.bin
File: radeon/PALM_pfp.bin
File: radeon/SUMO_rlc.bin
File: radeon/SUMO_uvd.bin
File: radeon/BARTS_me.bin
File: radeon/BARTS_pfp.bin
File: radeon/BARTS_smc.bin
File: radeon/BTC_rlc.bin
File: radeon/CAICOS_me.bin
File: radeon/CAICOS_me.bin
File: radeon/CAICOS_pfp.bin
File: radeon/CAICOS_smc.bin
File: radeon/TURKS_me.bin
File: radeon/TURKS_me.bin
File: radeon/TURKS_pfp.bin
File: radeon/TURKS_smc.bin
File: radeon/CAYMAN_me.bin
File: radeon/CAYMAN_me.bin
File: radeon/CAYMAN_pfp.bin
File: radeon/CAYMAN_rlc.bin
File: radeon/CAYMAN_smc.bin
File: radeon/SUMO_pfp.bin
File: radeon/SUMO_me.bin
File: radeon/SUMO2_pfp.bin
File: radeon/SUMO2_me.bin
File: radeon/ARUBA_me.bin
File: radeon/ARUBA_pfp.bin
File: radeon/ARUBA_rlc.bin
File: radeon/PITCAIRN_me.bin
File: radeon/PITCAIRN_me2.bin
File: radeon/PITCAIRN_me.bin
File: radeon/PITCAIRN_pfp.bin
File: radeon/PITCAIRN_rlc.bin
File: radeon/PITCAIRN_smc.bin
File: radeon/TAHITI_me.bin
File: radeon/TAHITI_me2.bin
File: radeon/TAHITI_me.bin
File: radeon/TAHITI_pfp.bin
File: radeon/TAHITI_rlc.bin
File: radeon/TAHITI_uvd.bin
File: radeon/TAHITI_smc.bin
File: radeon/TAHITI_vce.bin
File: radeon/VERDE_me.bin
File: radeon/VERDE_me2.bin
File: radeon/VERDE_me.bin
File: radeon/VERDE_pfp.bin
File: radeon/VERDE_rlc.bin
File: radeon/VERDE_smc.bin
File: radeon/OLAND_me.bin
File: radeon/OLAND_me2.bin
File: radeon/OLAND_me.bin
File: radeon/OLAND_pfp.bin
File: radeon/OLAND_rlc.bin
File: radeon/OLAND_smc.bin
File: radeon/HAINAN_me.bin
File: radeon/HAINAN_me2.bin
File: radeon/HAINAN_me.bin
File: radeon/HAINAN_pfp.bin
File: radeon/HAINAN_rlc.bin
File: radeon/HAINAN_smc.bin
File: radeon/BONAIRE_me.bin
File: radeon/BONAIRE_me2.bin
File: radeon/BONAIRE_me2.bin
File: radeon/BONAIRE_me.bin

File: radeon/BONAIRE_mec.bin
File: radeon/BONAIRE_pfp.bin
File: radeon/BONAIRE_rlc.bin
File: radeon/BONAIRE_sdma.bin
File: radeon/BONAIRE_uvd.bin
File: radeon/BONAIRE_smc.bin
File: radeon/BONAIRE_vce.bin
File: radeon/KABINI_ce.bin
File: radeon/KABINI_me.bin
File: radeon/KABINI_mec.bin
File: radeon/KABINI_pfp.bin
File: radeon/KABINI_rlc.bin
File: radeon/KABINI_sdma.bin
File: radeon/KAVERI_ce.bin
File: radeon/KAVERI_me.bin
File: radeon/KAVERI_mec.bin
File: radeon/KAVERI_pfp.bin
File: radeon/KAVERI_rlc.bin
File: radeon/KAVERI_sdma.bin
File: radeon/HAWAII_ce.bin
File: radeon/HAWAII_mc2.bin
File: radeon/HAWAII_me.bin
File: radeon/HAWAII_mec.bin
File: radeon/HAWAII_pfp.bin
File: radeon/HAWAII_rlc.bin
File: radeon/HAWAII_sdma.bin
File: radeon/HAWAII_smc.bin
File: radeon/MULLINS_ce.bin
File: radeon/MULLINS_me.bin
File: radeon/MULLINS_mec.bin
File: radeon/MULLINS_pfp.bin
File: radeon/MULLINS_rlc.bin
File: radeon/MULLINS_sdma.bin
File: radeon/pitcairn_ce.bin
File: radeon/pitcairn_k_smc.bin
File: radeon/pitcairn_mc.bin
File: radeon/pitcairn_me.bin
File: radeon/pitcairn_pfp.bin
File: radeon/pitcairn_rlc.bin
File: radeon/pitcairn_smc.bin
File: radeon/tahiti_ce.bin
File: radeon/tahiti_k_smc.bin
File: radeon/tahiti_mc.bin
File: radeon/tahiti_me.bin
File: radeon/tahiti_pfp.bin
File: radeon/tahiti_rlc.bin
File: radeon/tahiti_smc.bin
File: radeon/verde_ce.bin
File: radeon/verde_k_smc.bin
File: radeon/verde_mc.bin
File: radeon/verde_me.bin
File: radeon/verde_pfp.bin
File: radeon/verde_rlc.bin
File: radeon/verde_smc.bin
File: radeon/oland_ce.bin
File: radeon/oland_k_smc.bin
File: radeon/oland_mc.bin
File: radeon/oland_me.bin
File: radeon/oland_pfp.bin
File: radeon/oland_rlc.bin
File: radeon/oland_smc.bin
File: radeon/hainan_ce.bin
File: radeon/hainan_k_smc.bin
File: radeon/hainan_mc.bin
File: radeon/hainan_me.bin
File: radeon/hainan_pfp.bin
File: radeon/hainan_rlc.bin
File: radeon/hainan_smc.bin
File: radeon/bonaire_ce.bin
File: radeon/bonaire_k_smc.bin
File: radeon/bonaire_mc.bin
File: radeon/bonaire_me.bin
File: radeon/bonaire_mec.bin
File: radeon/bonaire_pfp.bin
File: radeon/bonaire_rlc.bin
File: radeon/bonaire_sdma.bin
File: radeon/bonaire_sdma1.bin
File: radeon/bonaire_smc.bin
File: radeon/bonaire_uvd.bin
File: radeon/bonaire_vce.bin
File: radeon/kabini_ce.bin
File: radeon/kabini_me.bin
File: radeon/kabini_mec.bin
File: radeon/kabini_pfp.bin
File: radeon/kabini_rlc.bin
File: radeon/kabini_sdma.bin
File: radeon/kabini_sdma1.bin
File: radeon/kabini_uvd.bin
File: radeon/kabini_vce.bin
File: radeon/kaveri_ce.bin
File: radeon/kaveri_me.bin
File: radeon/kaveri_mec.bin
File: radeon/kaveri_mec2.bin
File: radeon/kaveri_pfp.bin
File: radeon/kaveri_rlc.bin
File: radeon/kaveri_sdma.bin
File: radeon/kaveri_sdma1.bin
File: radeon/kaveri_uvd.bin
File: radeon/kaveri_vce.bin
File: radeon/hawaii_ce.bin
File: radeon/hawaii_k_smc.bin
File: radeon/hawaii_mc.bin
File: radeon/hawaii_me.bin
File: radeon/hawaii_mec.bin
File: radeon/hawaii_pfp.bin
File: radeon/hawaii_rlc.bin
File: radeon/hawaii_sdma.bin
File: radeon/hawaii_sdma1.bin
File: radeon/hawaii_smc.bin
File: radeon/hawaii_uvd.bin
File: radeon/hawaii_vce.bin
File: radeon/mullins_ce.bin
File: radeon/mullins_me.bin
File: radeon/mullins_mec.bin
File: radeon/mullins_pfp.bin
File: radeon/mullins_rlc.bin
File: radeon/mullins_sdma.bin
File: radeon/mullins_sdma1.bin
File: radeon/mullins_uvd.bin
File: radeon/mullins_vce.bin
File: radeon/banks_k_2_smc.bin
File: radeon/si58_mc.bin

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Driver: amdgpu - AMD Radeon

File: amdgpu/tahiti_ce.bin
File: amdgpu/tahiti_k_smc.bin
File: amdgpu/tahiti_mc.bin

File: amdgpu/tahiti_me.bin
File: amdgpu/tahiti_pfp.bin
File: amdgpu/tahiti_rlc.bin
File: amdgpu/tahiti_smc.bin
File: amdgpu/tahiti_uvd.bin
File: amdgpu/pitcairn_ce.bin
File: amdgpu/pitcairn_k_smc.bin
File: amdgpu/pitcairn_mc.bin
File: amdgpu/pitcairn_me.bin
File: amdgpu/pitcairn_pfp.bin
File: amdgpu/pitcairn_rlc.bin
File: amdgpu/pitcairn_smc.bin
File: amdgpu/pitcairn_uvd.bin
File: amdgpu/verde_ce.bin
File: amdgpu/verde_k_smc.bin
File: amdgpu/verde_mc.bin
File: amdgpu/verde_me.bin
File: amdgpu/verde_pfp.bin
File: amdgpu/verde_rlc.bin
File: amdgpu/verde_smc.bin
File: amdgpu/verde_uvd.bin
File: amdgpu/hainan_ce.bin
File: amdgpu/hainan_k_smc.bin
File: amdgpu/hainan_mc.bin
File: amdgpu/hainan_me.bin
File: amdgpu/hainan_pfp.bin
File: amdgpu/hainan_rlc.bin
File: amdgpu/hainan_smc.bin
File: amdgpu/oland_ce.bin
File: amdgpu/oland_k_smc.bin
File: amdgpu/oland_mc.bin
File: amdgpu/oland_me.bin
File: amdgpu/oland_pfp.bin
File: amdgpu/oland_rlc.bin
File: amdgpu/oland_smc.bin
File: amdgpu/oland_uvd.bin
File: amdgpu/si58_mc.bin
File: amdgpu/banks_k_2_smc.bin
File: amdgpu/bonaire_ce.bin
File: amdgpu/bonaire_k_smc.bin
File: amdgpu/bonaire_mc.bin
File: amdgpu/bonaire_me.bin
File: amdgpu/bonaire_mec.bin
File: amdgpu/bonaire_pfp.bin
File: amdgpu/bonaire_rlc.bin
File: amdgpu/bonaire_sdma.bin
File: amdgpu/bonaire_sdma1.bin
File: amdgpu/bonaire_smc.bin
File: amdgpu/bonaire_uvd.bin
File: amdgpu/bonaire_vce.bin
File: amdgpu/hawaii_ce.bin
File: amdgpu/hawaii_k_smc.bin
File: amdgpu/hawaii_mc.bin
File: amdgpu/hawaii_me.bin
File: amdgpu/hawaii_mec.bin
File: amdgpu/hawaii_pfp.bin
File: amdgpu/hawaii_rlc.bin
File: amdgpu/hawaii_sdma.bin
File: amdgpu/hawaii_sdma1.bin
File: amdgpu/hawaii_smc.bin
File: amdgpu/hawaii_uvd.bin
File: amdgpu/hawaii_vce.bin
File: amdgpu/kabini_ce.bin
File: amdgpu/kabini_me.bin
File: amdgpu/kabini_mec.bin
File: amdgpu/kabini_pfp.bin
File: amdgpu/kabini_rlc.bin
File: amdgpu/kabini_sdma.bin
File: amdgpu/kabini_sdma1.bin
File: amdgpu/kabini_uvd.bin
File: amdgpu/kabini_vce.bin
File: amdgpu/mullins_ce.bin
File: amdgpu/mullins_me.bin
File: amdgpu/mullins_mec.bin
File: amdgpu/mullins_pfp.bin
File: amdgpu/mullins_rlc.bin
File: amdgpu/mullins_sdma.bin
File: amdgpu/mullins_sdma1.bin
File: amdgpu/mullins_uvd.bin
File: amdgpu/mullins_vce.bin
File: amdgpu/kaveri_ce.bin
File: amdgpu/kaveri_me.bin
File: amdgpu/kaveri_mec.bin
File: amdgpu/kaveri_mec2.bin
File: amdgpu/kaveri_pfp.bin
File: amdgpu/kaveri_rlc.bin
File: amdgpu/kaveri_sdma.bin
File: amdgpu/kaveri_sdma1.bin
File: amdgpu/kaveri_uvd.bin
File: amdgpu/kaveri_vce.bin
File: amdgpu/topaz_ce.bin
File: amdgpu/topaz_k_smc.bin
File: amdgpu/topaz_mc.bin
File: amdgpu/topaz_me.bin
File: amdgpu/topaz_mec2.bin
File: amdgpu/topaz_mec.bin
File: amdgpu/topaz_pfp.bin
File: amdgpu/topaz_rlc.bin
File: amdgpu/topaz_sdma1.bin
File: amdgpu/topaz_sdma.bin
File: amdgpu/topaz_smc.bin
File: amdgpu/tonga_ce.bin
File: amdgpu/tonga_k_smc.bin
File: amdgpu/tonga_mc.bin
File: amdgpu/tonga_me.bin
File: amdgpu/tonga_mec2.bin
File: amdgpu/tonga_mec.bin
File: amdgpu/tonga_pfp.bin
File: amdgpu/tonga_rlc.bin
File: amdgpu/tonga_sdma1.bin
File: amdgpu/tonga_sdma.bin
File: amdgpu/tonga_smc.bin
File: amdgpu/tonga_uvd.bin
File: amdgpu/tonga_vce.bin
File: amdgpu/carrizo_ce.bin
File: amdgpu/carrizo_me.bin
File: amdgpu/carrizo_mec2.bin
File: amdgpu/carrizo_mec.bin
File: amdgpu/carrizo_pfp.bin
File: amdgpu/carrizo_rlc.bin
File: amdgpu/carrizo_sdma1.bin
File: amdgpu/carrizo_sdma.bin
File: amdgpu/carrizo_uvd.bin
File: amdgpu/carrizo_vce.bin
File: amdgpu/fiji_ce.bin
File: amdgpu/fiji_mc.bin
File: amdgpu/fiji_me.bin
File: amdgpu/fiji_mec2.bin
File: amdgpu/fiji_mec.bin
File: amdgpu/fiji_pfp.bin
File: amdgpu/fiji_rlc.bin
File: amdgpu/fiji_sdma1.bin
File: amdgpu/fiji_sdma.bin

File: amdgpu/fiji_smc.bin
File: amdgpu/fiji_uvd.bin
File: amdgpu/fiji_vce.bin
File: amdgpu/stoney_ce.bin
File: amdgpu/stoney_me.bin
File: amdgpu/stoney_mec.bin
File: amdgpu/stoney_pfp.bin
File: amdgpu/stoney_rlc.bin
File: amdgpu/stoney_sdma.bin
File: amdgpu/stoney_uvd.bin
File: amdgpu/stoney_vce.bin
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File: amdgpu/polaris10_ce_2.bin
File: amdgpu/polaris10_mc.bin
File: amdgpu/polaris10_k_mc.bin
File: amdgpu/polaris10_me.bin
File: amdgpu/polaris10_me_2.bin
File: amdgpu/polaris10_mec2_2.bin
File: amdgpu/polaris10_mec2_2.bin
File: amdgpu/polaris10_mec2_2.bin
File: amdgpu/polaris10_mec_2.bin
File: amdgpu/polaris10_pfp.bin
File: amdgpu/polaris10_pfp_2.bin
File: amdgpu/polaris10_rlc.bin
File: amdgpu/polaris10_sdma1.bin
File: amdgpu/polaris10_sdma.bin
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File: amdgpu/polaris10_smc.bin
File: amdgpu/polaris10_k_smc.bin
File: amdgpu/polaris10_k2_smc.bin
File: amdgpu/polaris10_smc_sk.bin
File: amdgpu/polaris10_uvd.bin
File: amdgpu/polaris10_vce.bin
File: amdgpu/polaris11_ce.bin
File: amdgpu/polaris11_ce_2.bin
File: amdgpu/polaris11_mc.bin
File: amdgpu/polaris11_k_mc.bin
File: amdgpu/polaris11_me.bin
File: amdgpu/polaris11_me_2.bin
File: amdgpu/polaris11_mec2_2.bin
File: amdgpu/polaris11_mec2_2.bin
File: amdgpu/polaris11_mec2_2.bin
File: amdgpu/polaris11_mec2_2.bin
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File: amdgpu/polaris11_pfp.bin
File: amdgpu/polaris11_pfp_2.bin
File: amdgpu/polaris11_rlc.bin
File: amdgpu/polaris11_sdma1.bin
File: amdgpu/polaris11_sdma.bin
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File: amdgpu/polaris11_k_smc.bin
File: amdgpu/polaris11_k2_smc.bin
File: amdgpu/polaris11_smc_sk.bin
File: amdgpu/polaris11_uvd.bin
File: amdgpu/polaris11_vce.bin
File: amdgpu/polaris12_ce.bin
File: amdgpu/polaris12_ce_2.bin
File: amdgpu/polaris12_mc.bin
File: amdgpu/polaris12_k_mc.bin
File: amdgpu/polaris12_32_mc.bin
File: amdgpu/polaris12_me.bin
File: amdgpu/polaris12_me_2.bin
File: amdgpu/polaris12_mec2_2.bin
File: amdgpu/polaris12_mec2_2.bin
File: amdgpu/polaris12_mec2_2.bin
File: amdgpu/polaris12_mec2_2.bin
File: amdgpu/polaris12_mec2_2.bin
File: amdgpu/polaris12_pfp.bin
File: amdgpu/polaris12_pfp_2.bin
File: amdgpu/polaris12_rlc.bin
File: amdgpu/polaris12_sdma.bin
File: amdgpu/polaris12_sdma1.bin
File: amdgpu/polaris12_smc.bin
File: amdgpu/polaris12_k_smc.bin
File: amdgpu/polaris12_uvd.bin
File: amdgpu/polaris12_vce.bin
File: amdgpu/vegam_ce.bin
File: amdgpu/vegam_me.bin
File: amdgpu/vegam_mec2_2.bin
File: amdgpu/vegam_pfp.bin
File: amdgpu/vegam_rlc.bin
File: amdgpu/vegam_sdma.bin
File: amdgpu/vegam_sdma1.bin
File: amdgpu/vegam_smc.bin
File: amdgpu/vegam_uvd.bin
File: amdgpu/vegam_vce.bin
File: amdgpu/vega10_acg_smc.bin
File: amdgpu/vega10_asd.bin
File: amdgpu/vega10_ce.bin
File: amdgpu/vega10_gpu_info.bin
File: amdgpu/vega10_me.bin
File: amdgpu/vega10_mec2_2.bin
File: amdgpu/vega10_mec2_2.bin
File: amdgpu/vega10_pfp.bin
File: amdgpu/vega10_rlc.bin
File: amdgpu/vega10_sdma.bin
File: amdgpu/vega10_sdma1.bin
File: amdgpu/vega10_smc.bin
File: amdgpu/vega10_sos.bin
File: amdgpu/vega10_uvd.bin
File: amdgpu/vega10_vce.bin
File: amdgpu/vega10_asd.bin
File: amdgpu/vega12_ce.bin
File: amdgpu/vega12_gpu_info.bin
File: amdgpu/vega12_me.bin
File: amdgpu/vega12_mec2_2.bin
File: amdgpu/vega12_mec2_2.bin
File: amdgpu/vega12_pfp.bin
File: amdgpu/vega12_rlc.bin
File: amdgpu/vega12_sdma.bin
File: amdgpu/vega12_sdma1.bin
File: amdgpu/vega12_smc.bin
File: amdgpu/vega12_sos.bin
File: amdgpu/vega12_uvd.bin
File: amdgpu/vega12_vce.bin
File: amdgpu/vega20_asd.bin
File: amdgpu/vega20_ce.bin
File: amdgpu/vega20_me.bin
File: amdgpu/vega20_mec2_2.bin
File: amdgpu/vega20_pfp.bin
File: amdgpu/vega20_rlc.bin
File: amdgpu/vega20_sdma.bin
File: amdgpu/vega20_sdma1.bin
File: amdgpu/vega20_smc.bin
File: amdgpu/vega20_sos.bin
File: amdgpu/vega20_uvd.bin
File: amdgpu/vega20_vce.bin
File: amdgpu/vega20_ta.bin
File: amdgpu/raven_asd.bin
File: amdgpu/raven_ce.bin
File: amdgpu/raven_gpu_info.bin
File: amdgpu/raven_me.bin
File: amdgpu/raven_mec2_2.bin
File: amdgpu/raven_mec2_2.bin

File: amdgpu/raven_pfp.bin
File: amdgpu/raven_rlc.bin
File: amdgpu/raven_sdma.bin
File: amdgpu/raven_vcn.bin
File: amdgpu/raven_dmcu.bin
File: amdgpu/raven_kicker_rlc.bin
File: amdgpu/raven_ta.bin
File: amdgpu/picasso_asd.bin
File: amdgpu/picasso_ce.bin
File: amdgpu/picasso_gpu_info.bin
File: amdgpu/picasso_me.bin
File: amdgpu/picasso_mec.bin
File: amdgpu/picasso_mec2.bin
File: amdgpu/picasso_pfp.bin
File: amdgpu/picasso_rlc.bin
File: amdgpu/picasso_rlc_am4.bin
File: amdgpu/picasso_sdma.bin
File: amdgpu/picasso_vcn.bin
File: amdgpu/picasso_ta.bin
File: amdgpu/raven2_asd.bin
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File: amdgpu/raven2_me.bin
File: amdgpu/raven2_mec.bin
File: amdgpu/raven2_mec2.bin
File: amdgpu/raven2_pfp.bin
File: amdgpu/raven2_rlc.bin
File: amdgpu/raven2_sdma.bin
File: amdgpu/raven2_vcn.bin
File: amdgpu/raven2_ta.bin
File: amdgpu/navi10_asd.bin
File: amdgpu/navi10_ce.bin
File: amdgpu/navi10_gpu_info.bin
File: amdgpu/navi10_me.bin
File: amdgpu/navi10_mec.bin
File: amdgpu/navi10_mec2.bin
File: amdgpu/navi10_pfp.bin
File: amdgpu/navi10_rlc.bin
File: amdgpu/navi10_sdma.bin
File: amdgpu/navi10_sdmal.bin
File: amdgpu/navi10_smc.bin
File: amdgpu/navi10_sos.bin
File: amdgpu/navi10_vcn.bin
File: amdgpu/navi10_ta.bin
File: amdgpu/navi14_asd.bin
File: amdgpu/navi14_ce.bin
File: amdgpu/navi14_ce_wks.bin
File: amdgpu/navi14_gpu_info.bin
File: amdgpu/navi14_me.bin
File: amdgpu/navi14_me_wks.bin
File: amdgpu/navi14_mec.bin
File: amdgpu/navi14_mec_wks.bin
File: amdgpu/navi14_mec2.bin
File: amdgpu/navi14_mec2_wks.bin
File: amdgpu/navi14_pfp.bin
File: amdgpu/navi14_pfp_wks.bin
File: amdgpu/navi14_rlc.bin
File: amdgpu/navi14_sdma.bin
File: amdgpu/navi14_sdmal.bin
File: amdgpu/navi14_smc.bin
File: amdgpu/navi14_sos.bin
File: amdgpu/navi14_vcn.bin
File: amdgpu/navi14_ta.bin
File: amdgpu/navi12_asd.bin
File: amdgpu/navi12_ce.bin
File: amdgpu/navi12_dmcu.bin
File: amdgpu/navi12_gpu_info.bin
File: amdgpu/navi12_me.bin
File: amdgpu/navi12_mec.bin
File: amdgpu/navi12_mec2.bin
File: amdgpu/navi12_pfp.bin
File: amdgpu/navi12_rlc.bin
File: amdgpu/navi12_sdma.bin
File: amdgpu/navi12_sdmal.bin
File: amdgpu/navi12_smc.bin
File: amdgpu/navi12_sos.bin
File: amdgpu/navi12_vcn.bin
File: amdgpu/navi12_ta.bin
File: amdgpu/renoir_asd.bin
File: amdgpu/renoir_ce.bin
File: amdgpu/renoir_gpu_info.bin
File: amdgpu/renoir_me.bin
File: amdgpu/renoir_mec.bin
File: amdgpu/renoir_mec2.bin
File: amdgpu/renoir_pfp.bin
File: amdgpu/renoir_rlc.bin
File: amdgpu/renoir_sdma.bin
File: amdgpu/renoir_vcn.bin
File: amdgpu/renoir_dmcub.bin
File: amdgpu/renoir_ta.bin
File: amdgpu/sienna_cichlid_ce.bin
File: amdgpu/sienna_cichlid_dmcub.bin
File: amdgpu/sienna_cichlid_me.bin
File: amdgpu/sienna_cichlid_mec.bin
File: amdgpu/sienna_cichlid_mec2.bin
File: amdgpu/sienna_cichlid_pfp.bin
File: amdgpu/sienna_cichlid_rlc.bin
File: amdgpu/sienna_cichlid_sdma.bin
File: amdgpu/sienna_cichlid_smc.bin
File: amdgpu/sienna_cichlid_sos.bin
File: amdgpu/sienna_cichlid_ta.bin
File: amdgpu/sienna_cichlid_vcn.bin
File: amdgpu/green_sardine_asd.bin
File: amdgpu/green_sardine_ce.bin
File: amdgpu/green_sardine_dmcub.bin
File: amdgpu/green_sardine_me.bin
File: amdgpu/green_sardine_mec2.bin
File: amdgpu/green_sardine_mec.bin
File: amdgpu/green_sardine_pfp.bin
File: amdgpu/green_sardine_rlc.bin
File: amdgpu/green_sardine_sdma.bin
File: amdgpu/green_sardine_ta.bin
File: amdgpu/green_sardine_vcn.bin
File: amdgpu/navy_flounder_ce.bin
File: amdgpu/navy_flounder_dmcub.bin
File: amdgpu/navy_flounder_me.bin
File: amdgpu/navy_flounder_mec.bin
File: amdgpu/navy_flounder_mec2.bin
File: amdgpu/navy_flounder_pfp.bin
File: amdgpu/navy_flounder_rlc.bin
File: amdgpu/navy_flounder_sdma.bin
File: amdgpu/navy_flounder_smc.bin
File: amdgpu/navy_flounder_sos.bin
File: amdgpu/navy_flounder_ta.bin
File: amdgpu/navy_flounder_vcn.bin
File: amdgpu/arcturus_asd.bin
File: amdgpu/arcturus_gpu_info.bin
File: amdgpu/arcturus_mec2.bin
File: amdgpu/arcturus_mec.bin
File: amdgpu/arcturus_rlc.bin
File: amdgpu/arcturus_sdma.bin
File: amdgpu/arcturus_smc.bin
File: amdgpu/arcturus_sos.bin

File: amdgpu/arcturus_ta.bin
File: amdgpu/arcturus_vcn.bin
File: amdgpu/dimgrey_cavefish_ce.bin
File: amdgpu/dimgrey_cavefish_dmcub.bin
File: amdgpu/dimgrey_cavefish_me.bin
File: amdgpu/dimgrey_cavefish_mec.bin
File: amdgpu/dimgrey_cavefish_mec2.bin
File: amdgpu/dimgrey_cavefish_pfp.bin
File: amdgpu/dimgrey_cavefish_rlc.bin
File: amdgpu/dimgrey_cavefish_sdma.bin
File: amdgpu/dimgrey_cavefish_smc.bin
File: amdgpu/dimgrey_cavefish_sos.bin
File: amdgpu/dimgrey_cavefish_ta.bin
File: amdgpu/dimgrey_cavefish_vcn.bin
File: amdgpu/vangogh_asd.bin
File: amdgpu/vangogh_ce.bin
File: amdgpu/vangogh_dmcub.bin
File: amdgpu/vangogh_me.bin
File: amdgpu/vangogh_mec2.bin
File: amdgpu/vangogh_mec.bin
File: amdgpu/vangogh_pfp.bin
File: amdgpu/vangogh_rlc.bin
File: amdgpu/vangogh_sdma.bin
File: amdgpu/vangogh_toc.bin
File: amdgpu/vangogh_vcn.bin
File: amdgpu/yellow_carp_asd.bin
File: amdgpu/yellow_carp_ce.bin
File: amdgpu/yellow_carp_dmcub.bin
File: amdgpu/yellow_carp_me.bin
File: amdgpu/yellow_carp_mec.bin
File: amdgpu/yellow_carp_mec2.bin
File: amdgpu/yellow_carp_pfp.bin
File: amdgpu/yellow_carp_rlc.bin
File: amdgpu/yellow_carp_sdma.bin
File: amdgpu/yellow_carp_ta.bin
File: amdgpu/yellow_carp_toc.bin
File: amdgpu/yellow_carp_vcn.bin

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Driver: s2255drv

File: f2255usb.bin
Version: 1.2.8

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Driver: rtl8192e - Realtek 8192 PCI wireless driver

File: RTL8192E/boot.img
File: RTL8192E/data.img
File: RTL8192E/main.img

Licence: Redistributable, provided by Realtek in their driver source download.

Driver: lgs8gxx - Legend Silicon GB20600 demodulator driver

File: lgs8g75.fw

Licence: Unknown

Driver: ib_qib - QLogic Infiniband

File: qllogic/sd7220.fw

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Found in hex form in kernel source.

Driver: qed - QLogic 4xxx Ethernet Driver Core Module.

File: qed/qed_init_values_zipped-8.4.2.0.bin
File: qed/qed_init_values_zipped-8.7.3.0.bin
File: qed/qed_init_values_zipped-8.10.5.0.bin
File: qed/qed_init_values-8.10.9.0.bin
File: qed/qed_init_values_zipped-8.10.10.0.bin
File: qed/qed_init_values-8.14.6.0.bin
File: qed/qed_init_values_zipped-8.15.3.0.bin
File: qed/qed_init_values-8.18.9.0.bin
File: qed/qed_init_values_zipped-8.20.0.0.bin
File: qed/qed_init_values-8.20.0.0.bin
File: qed/qed_init_values-8.30.12.0.bin
File: qed/qed_init_values_zipped-8.33.1.0.bin
File: qed/qed_init_values_zipped-8.33.11.0.bin

File: qed/qed_init_values-8.33.12.0.bin
File: qed/qed_init_values_zipped-8.37.2.0.bin
File: qed/qed_init_values_zipped-8.37.7.0.bin
File: qed/qed_init_values-8.37.7.0.bin
File: qed/qed_init_values-8.40.33.0.bin
File: qed/qed_init_values_zipped-8.42.2.0.bin
File: qed/qed_init_values_zipped-8.59.1.0.bin

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Driver: ueagle-atm - Driver for USB ADSL Modems based on Eagle IV Chipset

File: ueagle-atm/CMV4p.bin.v2
File: ueagle-atm/DSP4p.bin
File: ueagle-atm/eagleIV.fw
Version: 1.0

Licence: Redistributable. See LICENCE.ueagle-atm4-firmware for details

Driver: ueagle-atm - Driver for USB ADSL Modems based on Eagle I,II,III

File: ueagle-atm/930-fpga.bin
File: ueagle-atm/CMVeIw0.bin
File: ueagle-atm/CMVepFR10.bin
File: ueagle-atm/DSP9p.bin
File: ueagle-atm/eagleIII.fw
File: ueagle-atm/adi930.fw
File: ueagle-atm/CMVep.bin
File: ueagle-atm/CMVepFR.bin
File: ueagle-atm/DSPei.bin
File: ueagle-atm/CMV9i.bin
File: ueagle-atm/CMVepES03.bin
File: ueagle-atm/CMVepIT.bin
File: ueagle-atm/DSPep.bin
File: ueagle-atm/CMV9p.bin
File: ueagle-atm/CMVepES.bin
File: ueagle-atm/CMVepW0.bin
File: ueagle-atm/eagleI.fw
File: ueagle-atm/CMVeI.bin
File: ueagle-atm/CMVepFR04.bin
File: ueagle-atm/DSP9i.bin
File: ueagle-atm/eagleII.fw
Version: 1.1

Licence: Redistributable. Based on
<https://mail.gna.org/public/eagleusb-dev/2004-11/msg00172.html>

Driver: vxge - Exar X3100 Series 10GbE PCIe I/O Virtualized Server Adapter

File: vxge/X3fw.ncf
File: vxge/X3fw-pxe.ncf
Version: 1.8.1

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Driver: brcmsmac - Broadcom 802.11n softmac wireless LAN driver.

File: brcm/bcm43xx-0.fw
File: brcm/bcm43xx_hdr-0.fw
Version: 610.812

Licence: Redistributable. See LICENCE.broadcom_bcm43xx for details.

Driver: brcmfmac - Broadcom 802.11n fullmac wireless LAN driver.

File: brcm/bcm4329-fullmac-4.bin
File: brcm/brcmfmac43230b.bin
File: brcm/brcmfmac4329-sdio.bin
File: brcm/brcmfmac4330-sdio.bin
File: brcm/brcmfmac4334-sdio.bin
File: brcm/brcmfmac4335-sdio.bin
File: brcm/brcmfmac43241b0-sdio.bin
File: brcm/brcmfmac43241b4-sdio.bin
File: brcm/brcmfmac43241b5-sdio.bin
File: brcm/brcmfmac43242a.bin
File: brcm/brcmfmac43143.bin
File: brcm/brcmfmac43143-sdio.bin
File: brcm/brcmfmac43430a0-sdio.bin
File: brcm/brcmfmac4350c2-pcie.bin
File: brcm/brcmfmac4350-pcie.bin
File: brcm/brcmfmac43569.bin
File: brcm/brcmfmac4358-pcie.bin
File: brcm/brcmfmac43602-pcie.bin
File: brcm/brcmfmac43602-pcie.ap.bin
File: brcm/brcmfmac4366b-pcie.bin
File: brcm/brcmfmac4366c-pcie.bin
File: brcm/brcmfmac4371-pcie.bin

Licence: Redistributable. See LICENCE.broadcom_bcm43xx for details.

File: brcm/brcmfmac4373.bin
File: cypress/cyfm43012-sdio.bin
Link: brcm/brcmfmac43012-sdio.bin -> ../cypress/cyfm43012-sdio.bin
File: cypress/cyfm43012-sdio.clm_blob
Link: brcm/brcmfmac43012-sdio.clm_blob -> ../cypress/cyfm43012-sdio.clm_blob
File: cypress/cyfm43340-sdio.bin
Link: brcm/brcmfmac43340-sdio.bin -> ../cypress/cyfm43340-sdio.bin
File: cypress/cyfm43362-sdio.bin
Link: brcm/brcmfmac43362-sdio.bin -> ../cypress/cyfm43362-sdio.bin
File: cypress/cyfm4339-sdio.bin
Link: brcm/brcmfmac4339-sdio.bin -> ../cypress/cyfm4339-sdio.bin
File: cypress/cyfm43430-sdio.bin
Link: brcm/brcmfmac43430-sdio.bin -> ../cypress/cyfm43430-sdio.bin
File: cypress/cyfm43430-sdio.clm_blob
Link: brcm/brcmfmac43430-sdio.clm_blob -> ../cypress/cyfm43430-sdio.clm_blob
File: cypress/cyfm43455-sdio.bin
Link: brcm/brcmfmac43455-sdio.bin -> ../cypress/cyfm43455-sdio.bin
File: cypress/cyfm43455-sdio.clm_blob
Link: brcm/brcmfmac43455-sdio.clm_blob -> ../cypress/cyfm43455-sdio.clm_blob

File: cypress/cyfmac4354-sdio.bin
Link: brcm/brcmfmac4354-sdio.bin -> ../cypress/cyfmac4354-sdio.bin
File: cypress/cyfmac4354-sdio.clm_blob
Link: brcm/brcmfmac4354-sdio.clm_blob -> ../cypress/cyfmac4354-sdio.clm_blob
File: cypress/cyfmac4356-pcie.bin
Link: brcm/brcmfmac4356-pcie.bin -> ../cypress/cyfmac4356-pcie.bin
File: cypress/cyfmac4356-pcie.clm_blob
Link: brcm/brcmfmac4356-pcie.clm_blob -> ../cypress/cyfmac4356-pcie.clm_blob
File: cypress/cyfmac4356-sdio.bin
Link: brcm/brcmfmac4356-sdio.bin -> ../cypress/cyfmac4356-sdio.bin
File: cypress/cyfmac4356-sdio.clm_blob
Link: brcm/brcmfmac4356-sdio.clm_blob -> ../cypress/cyfmac4356-sdio.clm_blob
File: cypress/cyfmac43570-pcie.bin
Link: brcm/brcmfmac43570-pcie.bin -> ../cypress/cyfmac43570-pcie.bin
File: cypress/cyfmac43570-pcie.clm_blob
Link: brcm/brcmfmac43570-pcie.clm_blob -> ../cypress/cyfmac43570-pcie.clm_blob
File: cypress/cyfmac4373-sdio.bin
Link: brcm/brcmfmac4373-sdio.bin -> ../cypress/cyfmac4373-sdio.bin
File: cypress/cyfmac4373-sdio.clm_blob
Link: brcm/brcmfmac4373-sdio.clm_blob -> ../cypress/cyfmac4373-sdio.clm_blob
File: cypress/cyfmac54591-pcie.bin
Link: brcm/brcmfmac54591-pcie.bin -> ../cypress/cyfmac54591-pcie.bin
File: cypress/cyfmac54591-pcie.clm_blob
Link: brcm/brcmfmac54591-pcie.clm_blob -> ../cypress/cyfmac54591-pcie.clm_blob

Licence: Redistributable. See LICENCE.cypress for details.

File: "brcm/brcmfmac4330-sdio.Prowise-PT301.txt"
File: "brcm/brcmfmac43340-sdio.meegopad-t08.txt"
File: "brcm/brcmfmac43340-sdio.pov-tab-p1006w-data.txt"
File: "brcm/brcmfmac43340-sdio.predia-basic.txt"
File: "brcm/brcmfmac43362-sdio.cubietech, cubietruck.txt"
Link: brcm/brcmfmac43362-sdio.lemaker, bananapro.txt -> brcmfmac43362-sdio.cubietech, cubietruck.txt
File: "brcm/brcmfmac43430a0-sdio.ilife-5806.txt"
File: "brcm/brcmfmac43430a0-sdio.jumper-ezpad-mini3.txt"
File: "brcm/brcmfmac43430a0-sdio.ONDA-V80 PLUS.txt"
File: "brcm/brcmfmac43430-sdio.AP6212.txt"
Link: brcm/brcmfmac43430-sdio.sinovoip, bpi-m2-plus.txt -> brcmfmac43430-sdio.AP6212.txt
Link: brcm/brcmfmac43430-sdio.sinovoip, bpi-m2-zero.txt -> brcmfmac43430-sdio.AP6212.txt
Link: brcm/brcmfmac43430-sdio.sinovoip, bpi-m2-ultra.txt -> brcmfmac43430-sdio.AP6212.txt
Link: brcm/brcmfmac43430-sdio.sinovoip, bpi-m3.txt -> brcmfmac43430-sdio.AP6212.txt
File: "brcm/brcmfmac43430-sdio.Hampoo-D2D3_Vi8A1.txt"
File: "brcm/brcmfmac43430-sdio.MUR1DX.txt"
File: "brcm/brcmfmac43430-sdio.raspberrypi,3-model-b.txt"
Link: brcm/brcmfmac43430-sdio.raspberrypi,model-zero-w.txt -> brcmfmac43430-sdio.raspberrypi,3-model-b.txt
File: "brcm/brcmfmac43455-sdio.raspberrypi,3-model-b-plus.txt"
Link: brcm/brcmfmac43455-sdio.raspberrypi,3-model-a-plus.txt -> brcmfmac43455-sdio.raspberrypi,3-model-b-plus.txt
File: "brcm/brcmfmac43455-sdio.raspberrypi,4-model-b.txt"
Link: brcm/brcmfmac43455-sdio.Raspberrypi\ Pi\ Foundation-Raspberrypi\ Pi\ 4\ Model\ B.txt -> brcmfmac43455-sdio.raspberrypi,4-model-b.txt
Link: brcm/brcmfmac43455-sdio.Raspberrypi\ Pi\ Foundation-Raspberrypi\ Pi\ Compute\ Module\ 4.txt -> brcmfmac43455-sdio.raspberrypi,4-model-b.txt
File: "brcm/brcmfmac43455-sdio.MINIX-NEO Z83-4.txt"
File: "brcm/brcmfmac4356-pcie.gpd-win-pocket.txt"
File: brcm/brcmfmac4356-sdio.vamrs, rock960.txt
Link: brcm/brcmfmac4356-sdio.khadas, vim2.txt -> brcmfmac4356-sdio.vamrs, rock960.txt

Licence: GPLv2. See GPL-2 for details.

Driver: tda7706 - FM radio Highly integrated tuner for AM/FM car-radio

File: TDA7706_OM_v2.5.1_boot.txt
File: TDA7706_OM_v3.0.2_boot.txt

Licence: Redistributable. See LICENCE.tda7706-firmware.txt for details.
Copyright © 2010 STMicroelectronics

Driver: ti-vpe - Texas Instruments V4L2 driver for Video Processing Engine

File: ti/vpdma-lb8.bin

Licence: Redistributable. See LICENCE.ti-tspa for details.

Driver: wl1251 - Texas Instruments 802.11 WLAN driver for WiLink4 chips

File: ti-connectivity/wl1251-fw.bin
Version: 4.0.4.3.7

File: ti-connectivity/wl1251-nvs.bin

Licence: Redistributable. See LICENCE.wl1251 for details.

The published NVS files are for testing only. Every device needs to have a unique NVS which is properly calibrated for best results.

The driver expects to find the firmwares under a ti-connectivity subdirectory. So if your system looks for firmwares in /lib/firmware, the firmwares for wl12xx chips must be located in /lib/firmware/ti-connectivity/.

Driver: wl12xx - Texas Instruments 802.11 WLAN driver for WiLink6/7 chips

File: ti-connectivity/wl1271-fw.bin
Version: 6.1.0.50.350 (STA-only)
File: ti-connectivity/wl1271-fw-2.bin
Version: 6.1.5.50.74 (STA-only)
File: ti-connectivity/wl1271-fw-ap.bin
Version: 6.2.1.0.54 (AP-only)
File: ti-connectivity/wl127x-fw-3.bin
Version: 6.3.0.0.77
File: ti-connectivity/wl127x-fw-plt-3.bin
Version: 6.3.0.0.77 (PLT-only)
File: ti-connectivity/wl127x-fw-4-sr.bin
Version: 6.3.5.0.98 (Single-role)
File: ti-connectivity/wl127x-fw-4-mr.bin
Version: 6.5.2.0.15 (Multi-role)
File: ti-connectivity/wl127x-fw-4-plt.bin
Version: 6.3.5.0.98 (PLT-only)
File: ti-connectivity/wl127x-fw-5-sr.bin
Version: 6.3.10.0.142 (Single-role)
File: ti-connectivity/wl127x-fw-5-mr.bin
Version: 6.5.7.0.50 (Multi-role)
File: ti-connectivity/wl127x-fw-5-plt.bin
Version: 6.3.10.0.142 (PLT-only)

File: ti-connectivity/wl128x-fw.bin
Version: 7.1.5.50.74 (STA-only)
File: ti-connectivity/wl128x-fw-ap.bin
Version: 7.2.1.0.54 (AP-only)
File: ti-connectivity/wl128x-fw-3.bin
Version: 7.3.0.0.77
File: ti-connectivity/wl128x-fw-plt-3.bin
Version: 7.3.0.0.77
File: ti-connectivity/wl128x-fw-4-sr.bin
Version: 7.3.5.0.98 (Single-role)
File: ti-connectivity/wl128x-fw-4-mr.bin
Version: 7.5.2.0.15 (Multi-role)
File: ti-connectivity/wl128x-fw-4-plt.bin

Version: 7.3.5.0.98 (PLT)
File: ti-connectivity/wl128x-fw-5-sr.bin
Version: 7.3.10.0.142 (Single-role)
File: ti-connectivity/wl128x-fw-5-mr.bin
Version: 7.5.7.0.50 (Multi-role)
File: ti-connectivity/wl128x-fw-5-plt.bin
Version: 7.3.10.2.142 (PLT-only)

File: ti-connectivity/wl127x-nvs.bin
File: ti-connectivity/wl128x-nvs.bin
Link: ti-connectivity/wl12xx-nvs.bin -> wl127x-nvs.bin
Link: ti-connectivity/wl1271-nvs.bin -> wl127x-nvs.bin

Licence: Redistributable. See LICENCE.ti-connectivity for details.

The NVS file includes two parts:

- radio calibration
- HW configuration parameters (aka. INI values)

The published NVS files are for testing only. Every device needs to have a unique NVS which is properly calibrated for best results. You can find more information about NVS generation for your device here:

<http://wireless.kernel.org/en/users/Drivers/wl12xx/calibrator>

If you're using a wl127x based device, use a symbolic link called wl1271-nvs.bin that links to the wl127x-nvs.bin file. If you are using wl128x, link to wl128x-nvs.bin instead.

The driver expects to find the firmwares under a ti-connectivity subdirectory. So if your system looks for firmwares in /lib/firmware, the firmwares for wl12xx chips must be located in /lib/firmware/ti-connectivity/.

Driver: wl18xx - Texas Instruments 802.11 WLAN driver for WiLink8 chips

File: ti-connectivity/wl18xx-fw.bin
Version: 8.2.0.0.100
File: ti-connectivity/wl18xx-fw-2.bin
Version: 8.5.0.0.55
File: ti-connectivity/wl18xx-fw-3.bin
Version: 8.8.0.0.13
File: ti-connectivity/wl18xx-fw-4.bin
Version: 8.9.0.0.79

Licence: Redistributable. See LICENCE.ti-connectivity for details.

The driver expects to find the firmwares under a ti-connectivity subdirectory. So if your system looks for firmwares in /lib/firmware, the firmwares for wl18xx chips must be located in /lib/firmware/ti-connectivity/.

Driver: TI_ST - Texas Instruments bluetooth driver

File: ti-connectivity/TIInit_6.2.31.bts
Version: 2.44 (TI_P31.123)
File: ti-connectivity/TIInit_6.6.15.bts
Version: 2.14 (TI_P6_15.93)
File: ti-connectivity/TIInit_7.2.31.bts

Licence: Redistributable. See LICENCE.ti-connectivity for details.

TIInit_7.2.31.bts version 7.2.31

In order to use that file copy it to /lib/firmware/ti-connectivity.

Driver: tlg2300 - Telgent 2300 V4L/DVB driver.

File: tlg2300_firmware.bin

Licence: Redistributable.

Telegent System grants permission to use and redistribute these firmware files for use with devices containing the chip tlg2300, but not as a part of the Linux kernel or in any other form which would require these files themselves to be covered by the terms of the GNU General Public License. These firmware files are distributed in the hope that they will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

Driver: r8712u - Realtek 802.11n WLAN driver for RTL8712U

File: rtlwifi/rtl8712u.bin
Info: From Vendor's rtl8712_8188_8191_8192SU_usb_linux_v7_0_20100831
Reverted rtl8188C_8192C_8192D_usb_linux_v3.4.2_3727.20120404

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8192ce - Realtek 802.11n WLAN driver for RTL8192CE

File: rtlwifi/rtl8192cfw.bin
File: rtlwifi/rtl8192cfwU.bin
File: rtlwifi/rtl8192cfwU_B.bin
Info: From Vendor's realtek/rtlwifi_linux_mac80211_0019.0320.2014V628 driver

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8192cu - Realtek 802.11n WLAN driver for RTL8192CU

File: rtlwifi/rtl8192cufw.bin
File: rtlwifi/rtl8192cufw_A.bin
File: rtlwifi/rtl8192cufw_B.bin
File: rtlwifi/rtl8192cufw_TMSC.bin
Info: From Vendor's rtl8188C_8192C_usb_linux_v4.0.1_6911.20130308 driver
All files extracted from driver/hal/rtl8192c/usb/Hal8192CUHWImg.c
Relevant variables (CONFIG_BT_COEXISTENCE not set):
- rtlwifi/rtl8192cufw_A.bin: Rtl8192CUFWUMBCutImgArray
- rtlwifi/rtl8192cufw_B.bin: Rtl8192CUFWUMBCutImgArray
- rtlwifi/rtl8192cufw_TMSC.bin: Rtl8192CUFWTSMCImgArray

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8192se - Realtek 802.11n WLAN driver for RTL8192SE

Info: updated from rtl_92ce_92se_92de_linux_mac80211_0004.0816.2011 driver version
File: rtlwifi/rtl8192sefw.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

```

-----
Driver: rtl8192de - Realtek 802.11n WLAN driver for RTL8192DE
Info: Updated from Realtek version rtl_92ce_92se_92de_8723ae_linux_mac80211_0007.0809.2012
File: rtlwifi/rtl8192defw.bin
Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.
-----
Driver: rtl8723e - Realtek 802.11n WLAN driver for RTL8723E
Info: Taken from Realtek version rtl_92ce_92se_92de_8723ae_linux_mac80211_0007.0809.2012
File: rtlwifi/rtl8723fw.bin
File: rtlwifi/rtl8723fw_B.bin
Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.
-----
Driver: rtl8723be - Realtek 802.11n WLAN driver for RTL8723BE
Info: From Vendor's realtek/rtlwifi_linux_mac80211_0019.0320.2014V628 driver
File: rtlwifi/rtl8723befw.bin
Info: Update to version 36 - Sent by Realtek
File: rtlwifi/rtl8723befw_36.bin
Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.
-----
Driver: rtl8723de - Realtek 802.11ac WLAN driver for RTL8723DE
Info: Supplied by Vendor at https://github.com/pkshih/rtlwifi_rtl8723de
File: rtlwifi/rtl8723defw.bin
Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.
-----
Driver: r8723au - Realtek 802.11n WLAN driver for RTL8723AU
Info: Taken from Realtek driver rtl8723A_WiFi_linux_v4.1.3_6044.20121224
      Firmware is embedded in the driver as data statements. This info
      has been extracted into a binary file.
File: rtlwifi/rtl8723aufw_A.bin
File: rtlwifi/rtl8723aufw_B.bin
File: rtlwifi/rtl8723aufw_B_NoBT.bin
Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.
-----
Driver: rtl8188ee - Realtek 802.11n WLAN driver for RTL8188EE
Info: Taken from Realtek version rtl_92ce_92se_92de_8723ae_88ee_linux_mac80211_0010.0109.2013
File: rtlwifi/rtl8188efw.bin
Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.
-----
Driver: rtl8188eu - Realtek 802.11n WLAN driver for RTL8188EU
Info: Taken from Realtek version RTL8188EUS_linux_v4.1.4_6773.20130222
File: rtlwifi/rtl8188eufw.bin
Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.
-----
Driver: rtl8821ae - Realtek 802.11n WLAN driver for RTL8821AE
Info: From Vendor's realtek/rtlwifi_linux_mac80211_0019.0320.2014V628 driver
File: rtlwifi/rtl8821aefw.bin
File: rtlwifi/rtl8821aefw_wowlan.bin
Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.
-----
Driver: rtl8821ae - Realtek 802.11n WLAN driver for RTL8821AE
Info: From Vendor's realtek/rtlwifi_linux_mac80211_0019.0320.2014V628 driver
File: rtlwifi/rtl8821aefw.bin
File: rtlwifi/rtl8821aefw_wowlan.bin
Info: Update to version 29 - Sent by Realtek
File: rtlwifi/rtl8821aefw_29.bin
Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.
-----
Driver: rtl8822be - Realtek 802.11n WLAN driver for RTL8822BE
Info: Sent to Larry Finger by Realtek engineer Ping-Ke Shih <pkshih@realtek.com>
File: rtlwifi/rtl8822befw.bin
Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.
-----
Driver: rtw88 - Realtek 802.11ac WLAN driver for RTL8822BE and RTL8822CE
Info: Sent to Larry Finger by Realtek engineer Yan-Hsuan Chuang <yhchuang@realtek.com>
File: rtw88/rtw8822b_fw.bin
File: rtw88/rtw8822c_fw.bin
File: rtw88/rtw8822c_wow_fw.bin
File: rtw88/README
File: rtw88/rtw8723d_fw.bin
File: rtw88/rtw8821c_fw.bin
Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

      These firmware should be put under /lib/firmware/rtw88/
      And note that the rtw88 driver is able to support wake-on-wireless LAN
      for RTL8822C devices, after kernel v5.6+. So, make sure the firmware
      rtw88/rtw8822c_wow_fw.bin is also packed, otherwise the firmware load
      fail could be a problem.
      Although RTL8723D devices are 802.11n device, they are also supported
      by rtw88 because the hardware arch is similar.
-----
Driver: rtw89 - Realtek 802.11ax WLAN driver for RTL8852A
File: rtw89/rtw8852a_fw.bin
Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.
-----

```

Driver: rtl8192ee - Realtek 802.11n WLAN driver for RTL8192EE

Info: Initial version taken from Realtek version
rtl_92ce_92se_92de_8723ae_88ee_8723be_92ee_linux_mac80211_0017.1224.2013
Updated Jan. 14, 2015 with file added by Realtek to
http://github.com/lwfinger/rtlwifi_new.git.
Same firmware rtl8192eu_nic.bin so just link them
Link: rtlwifi/rtl8192eefw.bin -> rtl8192eu_nic.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8723bs - Realtek 802.11n WLAN driver for RTL8723BS

Info: Firmware files extracted from data statements in Realtek driver
v4.3.5.5_12290.20140916_BTCEX20140507-4E40.
File: rtlwifi/rtl8723bs_bt.bin
Link: rtlwifi/rtl8723bs_nic.bin -> rtl8723bu_nic.bin
Link: rtlwifi/rtl8723bs_ap_wowlan.bin -> rtl8723bu_ap_wowlan.bin
Link: rtlwifi/rtl8723bs_wowlan.bin -> rtl8723bu_wowlan.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8xxxu - Realtek 802.11n WLAN driver for RTL8XXX USB devices

Info: rtl8723au taken from Realtek driver
rtl8723A_WiFi_linux_v4.1.3_6044.20121224
Firmware is embedded in the driver as data statements. This info
has been extracted into a binary file.
File: rtlwifi/rtl8723aufw_A.bin
File: rtlwifi/rtl8723aufw_B.bin
File: rtlwifi/rtl8723aufw_B_NoBT.bin

Info: rtl8723bu taken from Realtek driver
rtl8723BU_WiFi_linux_v4.3.16_14189_20150519_BTCEX20150119-5844
Firmware is embedded in the driver as data statements. This info
has been extracted into a binary file.
File: rtlwifi/rtl8723bu_nic.bin
File: rtlwifi/rtl8723bu_wowlan.bin
File: rtlwifi/rtl8723bu_ap_wowlan.bin

Info: rtl8192eu taken from Realtek driver
rtl8192EU_linux_v4.3.1.1_11320.20140505
Firmware is embedded in the driver as data statements. This info
has been extracted into a binary file.
File: rtlwifi/rtl8192eu_nic.bin
File: rtlwifi/rtl8192eu_wowlan.bin
File: rtlwifi/rtl8192eu_ap_wowlan.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: r8169 - RealTek 8169/8168/8101 ethernet driver.

File: rtl_nic/rtl8168d-1.fw
File: rtl_nic/rtl8168d-2.fw
File: rtl_nic/rtl8105e-1.fw
File: rtl_nic/rtl8168e-1.fw
File: rtl_nic/rtl8168e-2.fw

File: rtl_nic/rtl8168e-3.fw
Version: 0.0.4

File: rtl_nic/rtl8168f-1.fw
Version: 0.0.5

File: rtl_nic/rtl8168f-2.fw
Version: 0.0.4

File: rtl_nic/rtl8411-1.fw
Version: 0.0.3

File: rtl_nic/rtl8411-2.fw
Version: 0.0.1

File: rtl_nic/rtl8402-1.fw
Version: 0.0.1

File: rtl_nic/rtl8106e-1.fw
Version: 0.0.1

File: rtl_nic/rtl8106e-2.fw
Version: 0.0.1

File: rtl_nic/rtl8168g-1.fw
Version: 0.0.3

File: rtl_nic/rtl8168g-2.fw
Version: 0.0.1

File: rtl_nic/rtl8168g-3.fw
Version: 0.0.1

File: rtl_nic/rtl8168h-1.fw
Version: 0.0.2

File: rtl_nic/rtl8168h-2.fw
Version: 0.0.2

File: rtl_nic/rtl8168fp-3.fw
Version: 0.0.1

File: rtl_nic/rtl8107e-1.fw
Version: 0.0.2

File: rtl_nic/rtl8107e-2.fw
Version: 0.0.2

File: rtl_nic/rtl8125a-3.fw
Version: 0.0.1

File: rtl_nic/rtl8125b-1.fw
Version: 0.0.2

File: rtl_nic/rtl8125b-2.fw
Version: 0.0.2

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*
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* notice is accompanying it.

Driver: r8152 - Realtek RTL8152/RTL8153 Based USB Ethernet Adapters

File: rtl_nic/rtl8153a-2.fw
File: rtl_nic/rtl8153a-3.fw
File: rtl_nic/rtl8153a-4.fw
File: rtl_nic/rtl8153b-2.fw
File: rtl_nic/rtl8153c-1.fw
File: rtl_nic/rtl8156a-2.fw
File: rtl_nic/rtl8156b-2.fw

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: vt6656 - VIA VT6656 USB wireless driver

File: vntwusb.fw

Licence: Redistributable. See LICENCE.via_vt6656 for details.

Driver: DFU Driver for Atheros bluetooth chipset AR3012

File: ar3k/AthrBT_0x01020001.dfu
File: ar3k/ramps_0x01020001_26.dfu
File: ar3k/AthrBT_0x01020200.dfu
File: ar3k/ramps_0x01020200_26.dfu
File: ar3k/ramps_0x01020200_40.dfu
File: ar3k/AthrBT_0x31010000.dfu
File: ar3k/ramps_0x31010000_40.dfu
File: ar3k/AthrBT_0x11020000.dfu
File: ar3k/ramps_0x11020000_40.dfu
File: ar3k/ramps_0x01020201_26.dfu
File: ar3k/ramps_0x01020201_40.dfu
File: ar3k/AthrBT_0x41020000.dfu
File: ar3k/ramps_0x41020000_40.dfu
File: ar3k/AthrBT_0x11020100.dfu
File: ar3k/ramps_0x11020100_40.dfu
File: ar3k/AthrBT_0x31010100.dfu
File: ar3k/ramps_0x31010100_40.dfu

Licence: Redistributable. See LICENCE.atheros_firmware for details

Driver: DFU Driver for Atheros bluetooth chipset AR3012

File: ar3k/AthrBT_0x01020201.dfu
File: ar3k/102020Icoex/ramps_0x01020201_26_HighPriority.dfu

Licence: Redistributable. See LICENSE.QualcommAtheros_ar3k for details

Driver:Atheros AR300x UART HCI Bluetooth Chip driver

File: ar3k/1020201/PS_ASIC.pst
File: ar3k/1020201/RamPatch.txt
File: ar3k/1020200/ar3kbdaddr.pst
File: ar3k/1020200/PS_ASIC.pst
File: ar3k/1020200/RamPatch.txt
File: ar3k/30101/ar3kbdaddr.pst
File: ar3k/30101/PS_ASIC.pst
File: ar3k/30101/RamPatch.txt
File: ar3k/30000/ar3kbdaddr.pst
File: ar3k/30000/PS_ASIC.pst
File: ar3k/30000/RamPatch.txt

Licence: Redistributable. See LICENCE.atheros_firmware for details

Driver: ath6kl - Atheros support for AR6003

File: ath6k/AR6004/hw1.3/fw-3.bin
File: ath6k/AR6004/hw1.3/bdata.bin
File: ath6k/AR6004/hw1.2/fw-2.bin
File: ath6k/AR6004/hw1.2/bdata.bin
File: ath6k/AR6003/hw1.0/otp.bin.z77
File: ath6k/AR6003/hw1.0/bdata.SD31.bin
File: ath6k/AR6003/hw1.0/bdata.SD32.bin
File: ath6k/AR6003/hw1.0/data.patch.bin
File: ath6k/AR6003/hw1.0/bdata.WB31.bin
File: ath6k/AR6003/hw1.0/athwlan.bin.z77
File: ath6k/AR6003/hw2.1.1/fw-2.bin
File: ath6k/AR6003/hw2.1.1/fw-3.bin
File: ath6k/AR6003/hw2.1.1/otp.bin
File: ath6k/AR6003/hw2.1.1/athwlan.bin
File: ath6k/AR6003/hw2.1.1/endpointping.bin
File: ath6k/AR6003/hw2.1.1/bdata.SD31.bin
File: ath6k/AR6003/hw2.1.1/bdata.SD32.bin
File: ath6k/AR6003/hw2.1.1/data.patch.bin
File: ath6k/AR6003/hw2.1.1/bdata.WB31.bin
File: ath6k/AR6003/hw2.0/otp.bin.z77
File: ath6k/AR6003/hw2.0/bdata.SD31.bin
File: ath6k/AR6003/hw2.0/bdata.SD32.bin
File: ath6k/AR6003/hw2.0/data.patch.bin
File: ath6k/AR6003/hw2.0/bdata.WB31.bin
File: ath6k/AR6003/hw2.0/athwlan.bin.z77
File: ath6k/AR6002/EEPROM.data
File: ath6k/AR6002/EEPROM.bin
File: ath6k/AR6002/athwlan.bin.z77
File: ath6k/AR6002/data.patch.hw2_0.bin

Licence: Redistributable. See LICENCE.atheros_firmware for details

Driver: ath10k - Qualcomm Atheros support for QCA988x family of chips

File: ath10k/QCA988X/hw2.0/board.bin
File: ath10k/QCA988X/hw2.0/firmware-4.bin
Version: 10.2.4.45
Licence: ath10k/QCA988X/hw2.0/notice_ath10k_firmware-4.txt
File: ath10k/QCA988X/hw2.0/firmware-5.bin
Version: 10.2.4.1-0-00047
Licence: ath10k/QCA988X/hw2.0/notice_ath10k_firmware-5.txt
File: ath10k/QCA6174/hw2.1/board.bin
File: ath10k/QCA6174/hw2.1/board-2.bin
File: ath10k/QCA6174/hw2.1/firmware-5.bin
Version: SW_RM.1.1.1-00157-QCARMSWPZ-1
Licence: ath10k/QCA6174/hw2.1/notice_ath10k_firmware-5.txt
File: ath10k/QCA6174/hw3.0/board.bin
File: ath10k/QCA6174/hw3.0/board-2.bin
File: ath10k/QCA6174/hw3.0/firmware-4.bin
Version: WLAN_RM.2.0-00180-QCARMSWPZ-1
Licence: ath10k/QCA6174/hw3.0/notice_ath10k_firmware-4.txt
File: ath10k/QCA6174/hw3.0/firmware-6.bin
Version: WLAN_RM.4.4.1-00157-QCARMSWPZ-1
Licence: ath10k/QCA6174/hw3.0/notice_ath10k_firmware-6.txt
File: ath10k/QCA6174/hw3.0/firmware-sdio-6.bin
Version: WLAN_RM.4.4.1-00077
Licence: ath10k/QCA6174/hw3.0/notice_ath10k_firmware-sdio-6.txt
File: ath10k/QCA9377/hw1.0/board.bin

File: ath10k/QCA9377/hw1.0/board-2.bin
File: ath10k/QCA9377/hw1.0/firmware-5.bin
Version: WLAN.TF.1.0-00002-QCATFSWPZ-5
Licence: ath10k/QCA9377/hw1.0/notice_ath10k_firmware-5.txt
File: ath10k/QCA9377/hw1.0/firmware-sdio-5.bin
Version: WLAN.TF.1.1.0-00061-QCATFSWPZ-1
Licence: ath10k/QCA9377/hw1.0/notice_ath10k_firmware-sdio-5.txt
File: ath10k/QCA99X0/hw2.0/board.bin
File: ath10k/QCA99X0/hw2.0/firmware-5.bin
Version: 10.4.1.00030-1
Licence: ath10k/QCA99X0/hw2.0/notice_ath10k_firmware-5.txt
File: ath10k/QCA4019/hw1.0/board-2.bin
File: ath10k/QCA4019/hw1.0/firmware-5.bin
Version: 10.4-3.6-00140
Licence: ath10k/QCA4019/hw1.0/notice_ath10k_firmware-5.txt
File: ath10k/QCA9887/hw1.0/board.bin
File: ath10k/QCA9887/hw1.0/firmware-5.bin
Version: 10.2.4-1.0-00047
Licence: ath10k/QCA9887/hw1.0/notice_ath10k_firmware-5.txt
File: ath10k/QCA9888/hw2.0/board-2.bin
File: ath10k/QCA9888/hw2.0/firmware-5.bin
Version: 10.4-3.9.0.2-00131
Licence: ath10k/QCA9888/hw2.0/notice_ath10k_firmware-5.txt
File: ath10k/QCA9984/hw1.0/board-2.bin
File: ath10k/QCA9984/hw1.0/firmware-5.bin
Version: 10.4-3.9.0.2-00131
Licence: ath10k/QCA9984/hw1.0/notice_ath10k_firmware-5.txt
File: ath10k/QCA9377/hw1.0/firmware-6.bin
Version: WLAN.TF.2.1-00021-QCARMSWP-1
Licence: ath10k/QCA9377/hw1.0/notice_ath10k_firmware-6.txt
File: ath10k/WCN3990/hw1.0/firmware-5.bin
File: ath10k/WCN3990/hw1.0/wlanmdsp.mbn
Link: qcom/sdm845/wlanmdsp.mbn -> ../ath10k/WCN3990/hw1.0/wlanmdsp.mbn
Version: WLAN.HL.2.0-01387-QCAHLSWMTPLZ-1
Licence: ath10k/WCN3990/hw1.0/notice.txt_wlanmdsp

Licence: Redistributable. See LICENSE.QualcommAtheros_ath10k for details

Driver: ath11k - Qualcomm Technologies 802.11ax chipset support

File: ath11k/IPQ6018/hw1.0/board-2.bin
File: ath11k/IPQ6018/hw1.0/m3_fw.b00
File: ath11k/IPQ6018/hw1.0/m3_fw.b01
File: ath11k/IPQ6018/hw1.0/m3_fw.b02
File: ath11k/IPQ6018/hw1.0/m3_fw.flist
File: ath11k/IPQ6018/hw1.0/m3_fw.mdt
File: ath11k/IPQ6018/hw1.0/q6_fw.b00
File: ath11k/IPQ6018/hw1.0/q6_fw.b01
File: ath11k/IPQ6018/hw1.0/q6_fw.b02
File: ath11k/IPQ6018/hw1.0/q6_fw.b03
File: ath11k/IPQ6018/hw1.0/q6_fw.b04
File: ath11k/IPQ6018/hw1.0/q6_fw.b05
File: ath11k/IPQ6018/hw1.0/q6_fw.b07
File: ath11k/IPQ6018/hw1.0/q6_fw.b08
File: ath11k/IPQ6018/hw1.0/q6_fw.flist
File: ath11k/IPQ6018/hw1.0/q6_fw.mdt
Version: WLAN.HK.2.1.0.1-01238-QCAHKSUPL_SILICONZ-2
Licence: ath11k/IPQ6018/hw1.0/Notice.txt
File: ath11k/IPQ8074/hw2.0/board-2.bin
File: ath11k/IPQ8074/hw2.0/m3_fw.b00
File: ath11k/IPQ8074/hw2.0/m3_fw.b01
File: ath11k/IPQ8074/hw2.0/m3_fw.b02
File: ath11k/IPQ8074/hw2.0/m3_fw.flist
File: ath11k/IPQ8074/hw2.0/m3_fw.mdt
File: ath11k/IPQ8074/hw2.0/q6_fw.b00
File: ath11k/IPQ8074/hw2.0/q6_fw.b01
File: ath11k/IPQ8074/hw2.0/q6_fw.b02
File: ath11k/IPQ8074/hw2.0/q6_fw.b03
File: ath11k/IPQ8074/hw2.0/q6_fw.b04
File: ath11k/IPQ8074/hw2.0/q6_fw.b05
File: ath11k/IPQ8074/hw2.0/q6_fw.b07
File: ath11k/IPQ8074/hw2.0/q6_fw.b08
File: ath11k/IPQ8074/hw2.0/q6_fw.flist
File: ath11k/IPQ8074/hw2.0/q6_fw.mdt
Version: WLAN.HK.2.1.0.1-01238-QCAHKSUPL_SILICONZ-2
Licence: ath11k/IPQ8074/hw2.0/Notice.txt
File: ath11k/QCA6390/hw2.0/board-2.bin
File: ath11k/QCA6390/hw2.0/amss.bin
File: ath11k/QCA6390/hw2.0/m3.bin
Version: WLAN.HST.1.0.1-01740-QCAHSTWPLZ_V2_TO_X86-1
Licence: ath11k/QCA6390/hw2.0/Notice.txt

Licence: Redistributable. See LICENSE.QualcommAtheros_ath10k for details

Driver: myri10ge - Myri10GE 10GbE NIC driver

File: myri10ge_eth_z8e.dat
File: myri10ge_ethp_z8e.dat
File: myri10ge_rss_eth_z8e.dat
File: myri10ge_rss_ethp_z8e.dat
File: myri10ge_eth_big_z8e.dat
File: myri10ge_ethp_big_z8e.dat
File: myri10ge_rss_eth_big_z8e.dat
File: myri10ge_rss_ethp_big_z8e.dat
Version: 1.4.57

Licence: Redistributable. See LICENSE.myri10ge_firmware for details.

Driver: ath6kl - Atheros support for AR6003 WiFi-Bluetooth combo module

File: ath6k/AR6003.1/hw2.1.1/athwlan.bin
File: ath6k/AR6003.1/hw2.1.1/bdata_SD31.bin
File: ath6k/AR6003.1/hw2.1.1/bdata_SD32.bin
File: ath6k/AR6003.1/hw2.1.1/bdata_WB31.bin
File: ath6k/AR6003.1/hw2.1.1/data_patch.bin
File: ath6k/AR6003.1/hw2.1.1/endpointping.bin
File: ath6k/AR6003.1/hw2.1.1/otp.bin

Licence: Redistributable. See LICENSE.atheros_firmware for details

Driver: ath6kl - Atheros support for AR3001 WiFi-Bluetooth combo module

File: ar3k/3010lcoex/ar3kaddr.pst
File: ar3k/3010lcoex/PS_ASIC_aclLowPri.pst
File: ar3k/3010lcoex/PS_ASIC_aclHighPri.pst
File: ar3k/3010lcoex/PS_ASIC.pst
File: ar3k/3010lcoex/RamPatch.txt

Licence: Redistributable. See LICENSE.atheros_firmware for details

Driver: drxk - Micronas DRX-K demodulator driver

File: dvb-usb-terratec-h5-drxk.fw

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Driver: ene-ub6250 -- ENE UB6250 SD card reader driver

File: ene-ub6250/sd_init1.bin
File: ene-ub6250/sd_init2.bin
File: ene-ub6250/sd_rdwf.bin
File: ene-ub6250/ms_init.bin
File: ene-ub6250/msp_rdwf.bin
File: ene-ub6250/ms_rdwf.bin

Licence: Redistributable. See LICENCE.ene_firmware for details.

Driver: isci -- Intel C600 SAS controller driver

File: isci/isci_firmware.bin
Source: isci/

Licence: GPLv2. See GPL-2 for details.

Driver: ar5523 -- Atheros AR5523 based USB Wifi dongles

File: ar5523.bin

Licence: Redistributable. See LICENCE.atheros_firmware for details

Driver: s5p-mfc - Samsung MFC video encoder/decoder driver

File: s5p-mfc.fw
File: s5p-mfc-v6.fw
File: s5p-mfc-v6-v2.fw
File: s5p-mfc-v7.fw
File: s5p-mfc-v8.fw

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Driver: carl9170 -- Atheros AR9170 802.11 draft-n USB driver

File: carl9170-1.fw
Version: 1.9.6
Source: carl9170fw/

Downloaded from <http://linuxwireless.org/en/users/Drivers/carl9170>

Licence: GPLv2. Some build scripts use the New BSD (3-clause) licence.. See GPL-2 for details.

Driver: snd-hda-codec-ca0132 - Creative Sound Core3D codec

File: ctefx.bin
File: ctspeq.bin

Licence: Redistributable. See LICENCE.ca0132 for details

Found also in alsa-firmware package.

Driver: btusb - Bluetooth USB driver

File: intel/ibt-hw-37.7.bseq
Version: 1316_02_00
File: intel/ibt-hw-37.7.10-fw-1.80.2.3.d.bseq
Version: BT_WilkinsPeak_B3_REL_87_0001
File: intel/ibt-hw-37.7.10-fw-1.0.2.3.d.bseq
Version: BT_WilkinsPeak_B3_REL_87_0001
File: intel/ibt-hw-37.7.10-fw-1.80.1.2d.d.bseq
Version: BT_WilkinsPeak_B5_REL_42_0001
File: intel/ibt-hw-37.7.10-fw-1.0.1.2d.d.bseq
Version: BT_WilkinsPeak_B5_REL_42_0001
File: intel/ibt-hw-37.8.bseq
Version: 1339_02_00
File: intel/ibt-hw-37.8.10-fw-1.10.2.27.d.bseq
Version: BT_StonePeak_C0_REL_59_0001
File: intel/ibt-hw-37.8.10-fw-1.10.3.11.e.bseq
Version: BT_StonePeak_D0_REL_50_0002
File: intel/ibt-hw-37.8.10-fw-22.50.19.14.f.bseq
Version: BT_StonePeak_D1_REL_66_1167
File: intel/ibt-11-5.ddc
Version: LnP/SfP_REL0522
File: intel/ibt-11-5.sfi
Version: BT_LightningPeak_REL0487
File: intel/ibt-12-16.ddc
Version: BT_WindStormPeak_REL1236
File: intel/ibt-12-16.sfi
Version: BT_WindStormPeak_REL1236
File: intel/ibt-17-16-1.sfi
Version: BT_JeffersonPeak_B0_B0_REL19878
File: intel/ibt-17-16-1.ddc
Version: BT_JeffersonPeak_B0_B0_REL19878
File: intel/ibt-17-2.sfi
Version: BT_JeffersonPeak_B0_B0_REL19878
File: intel/ibt-17-2.ddc
Version: BT_JeffersonPeak_B0_B0_REL19878
File: intel/ibt-17-0-1.sfi
Version: BT_JeffersonPeak_A0_B0_REL0201
File: intel/ibt-17-0-1.ddc
Version: BT_JeffersonPeak_A0_B0_REL0201
File: intel/ibt-17-1.sfi
Version: BT_JeffersonPeak_A0_B0_REL0201
File: intel/ibt-17-1.ddc
Version: BT_JeffersonPeak_A0_B0_REL0201
File: intel/ibt-18-16-1.sfi

Version: BT_ThunderPeak_B0_B0_REL19878
File: intel/ibt-18-16-1.ddc
Version: BT_ThunderPeak_B0_B0_REL19878
File: intel/ibt-18-2.sfi
Version: BT_ThunderPeak_B0_B0_REL19878
File: intel/ibt-18-2.ddc
Version: BT_ThunderPeak_B0_B0_REL19878
File: intel/ibt-18-0-1.sfi
Version: BT_ThunderPeak_A0_B0_REL0201
File: intel/ibt-18-0-1.ddc
Version: BT_ThunderPeak_A0_B0_REL0201
File: intel/ibt-18-1.sfi
Version: BT_ThunderPeak_A0_B0_REL0201
File: intel/ibt-18-1.ddc
Version: BT_ThunderPeak_A0_B0_REL0201
File: intel/ibt-20-0-3.sfi
Version: BT_CyclonePeak_A0_REL30628
File: intel/ibt-20-0-3.ddc
Version: BT_CyclonePeak_A0_REL30628
File: intel/ibt-20-1-3.sfi
Version: BT_CyclonePeak_A0_REL30628
File: intel/ibt-20-1-3.ddc
Version: BT_CyclonePeak_A0_REL30628
File: intel/ibt-20-1-4.sfi
Version: BT_CyclonePeak_A0_REL30628
File: intel/ibt-20-1-4.ddc
Version: BT_CyclonePeak_A0_REL30628
File: intel/ibt-19-0-0.sfi
Version: BT_Quasar_REL30628
File: intel/ibt-19-0-0.ddc
Version: BT_Quasar_REL30628
File: intel/ibt-19-0-1.sfi
Version: BT_Quasar_REL30628
File: intel/ibt-19-0-1.ddc
Version: BT_Quasar_REL30628
File: intel/ibt-19-0-4.sfi
Version: BT_HarrisonPeak_REL30628
File: intel/ibt-19-0-4.ddc
Version: BT_HarrisonPeak_REL30628
File: intel/ibt-19-16-4.sfi
Version: BT_HarrisonPeak_REL30628
File: intel/ibt-19-16-4.ddc
Version: BT_HarrisonPeak_REL30628
File: intel/ibt-19-32-1.sfi
Version: BT_HarrisonPeak_REL30628
File: intel/ibt-19-32-1.ddc
Version: BT_HarrisonPeak_REL30628
File: intel/ibt-19-32-0.sfi
Version: BT_HarrisonPeak_REL30628
File: intel/ibt-19-32-0.ddc
Version: BT_HarrisonPeak_REL30628
File: intel/ibt-19-32-4.sfi
Version: BT_HarrisonPeak_REL30628
File: intel/ibt-19-32-4.ddc
Version: BT_HarrisonPeak_REL30628
File: intel/ibt-19-240-1.sfi
Version: BT_HarrisonPeak_REL30628
File: intel/ibt-19-240-1.ddc
Version: BT_HarrisonPeak_REL30628
File: intel/ibt-19-240-4.sfi
Version: BT_HarrisonPeak_REL30628
File: intel/ibt-19-240-4.ddc
Version: BT_HarrisonPeak_REL30628
File: intel/ibt-0041-0041.sfi
Version: BT_TyphoonPeak_REL31586
File: intel/ibt-0041-0041.ddc
Version: BT_TyphoonPeak_REL31586
File: intel/ibt-0040-0041.sfi
Version: BT_GarfieldPeak_REL31586
File: intel/ibt-0040-0041.ddc
Version: BT_GarfieldPeak_REL31586

Licence: Redistributable. See LICENCE.ibt_firmware for details

File: rtl_bt/rtl8192ee_fw.bin
File: rtl_bt/rtl8192eu_fw.bin
File: rtl_bt/rtl8723a_fw.bin
File: rtl_bt/rtl8723b_fw.bin
File: rtl_bt/rtl8723bs_fw.bin
File: rtl_bt/rtl8723bs_config-OBDA8723.bin
Link: rtl_bt/rtl8723bs_config-OBDA0623.bin -> rtl8723bs_config-OBDA8723.bin
File: rtl_bt/rtl8761a_fw.bin
File: rtl_bt/rtl8761b_fw.bin
File: rtl_bt/rtl8761b_config.bin
File: rtl_bt/rtl8761bu_fw.bin
File: rtl_bt/rtl8761bu_config.bin
File: rtl_bt/rtl8812ae_fw.bin
File: rtl_bt/rtl8821a_fw.bin
Link: rtl_bt/rtl8821a_config.bin -> rtl8821c_config.bin
File: rtl_bt/rtl8822b_fw.bin
File: rtl_bt/rtl8822b_config.bin
File: rtl_bt/rtl8723d_fw.bin
File: rtl_bt/rtl8723d_config.bin
File: rtl_bt/rtl8821c_fw.bin
File: rtl_bt/rtl8821c_config.bin
File: rtl_bt/rtl8822cu_fw.bin
File: rtl_bt/rtl8822cu_config.bin
File: rtl_bt/rtl8822cs_fw.bin
File: rtl_bt/rtl8822cs_config.bin
File: rtl_bt/rtl8852au_fw.bin
File: rtl_bt/rtl8852au_config.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Found in vendor driver, linux_bt_usb_2.11.20140423_8723be.rar
From https://github.com/troy-tan/driver_store
Files rtl_bt/rtl8822b* came directly from Realtek. These files are updated on April 14, 2017.
Files rtl_bt/rtl8821c* and rtl_bt/rtl8723d* came directly from Realtek.
File rtl_bt/rtl8822cu_fw.bin came directly from Realtek.
updated on February 24, 2019
File rtl_bt/rtl8822cu_fw.bin came directly from Realtek.
updated on October 23, 2019
File rtl_bt/rtl8822cu_config.bin came directly from Realtek.

Found in vendor driver, 20200806_LINUX_BT_DRIVER_RTL8761B_COEX_v0202.zip
File rtl_bt/rtl8761b_fw.bin
File rtl_bt/rtl8761b_config.bin
File rtl_bt/rtl8761bu_fw.bin
File rtl_bt/rtl8761bu_config.bin

Driver: btmtk_usb - Bluetooth USB driver

File: mt7650.bin

Licence: Redistributable. See LICENCE.ralink_a_mEDIATEK_company_firmware for details

Driver: rp2 -- Comtrol RocketPort 2 serial driver

File: rp2.fw

Licence: Redistributable.

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Driver: go7007

File: go7007/s2250-1.fw
File: go7007/s2250-2.fw
Link: s2250.fw -> go7007/s2250-2.fw
Link: s2250_loader.fw -> go7007/s2250-1.fw

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File: go7007/go7007fw.bin
File: go7007/go7007tv.bin
File: go7007/lr192.fw
File: go7007/px-m402u.fw
File: go7007/px-tv402u.fw
File: go7007/wis-startrek.fw

Licence: Redistributable. See LICENCE.go7007 for details

Driver: ccp - Platform Security Processor (PSP) device

File: amd/amd_sev_fam17h_model0xh.sbin
Version: 2021-9-10
File: amd/amd_sev_fam17h_model3xh.sbin
Version: 2021-9-10
File: amd/amd_sev_fam19h_model0xh.sbin
Version: 2021-9-10

Licence: Redistributable. See LICENSE.amd-sev for details

Driver: microcode_amd - AMD CPU Microcode Update Driver for Linux

File: amd-ucode/microcode_amd.bin
Version: 2013-07-10
File: amd-ucode/microcode_amd_fam15h.bin
Version: 2018-05-24
File: amd-ucode/microcode_amd_fam16h.bin
Version: 2014-10-28
File: amd-ucode/microcode_amd_fam17h.bin
Version: 2019-12-18

Licence: Redistributable. See LICENSE.amd-ucode for details

Driver: mxul1x0 - MOXA UPort 11x0 USB Serial hub driver

File: moxa/moxa-1110.fw
File: moxa/moxa-1130.fw
File: moxa/moxa-1131.fw
File: moxa/moxa-1150.fw
File: moxa/moxa-1151.fw

Licence: Redistributable. See LICENCE.moxa for details

Driver: mxuport - MOXA UPort USB Serial hub driver

File: moxa/moxa-1250.fw
File: moxa/moxa-1251.fw
File: moxa/moxa-1410.fw
File: moxa/moxa-1450.fw
File: moxa/moxa-1451.fw
File: moxa/moxa-1613.fw
File: moxa/moxa-1618.fw
File: moxa/moxa-1653.fw
File: moxa/moxa-1658.fw

Licence: Redistributable. See LICENCE.moxa for details

Driver: cw1200 - ST-E CW1100/CW1200 WLAN driver

File: wsm_22.bin
Version: WSM395
Licence: Redistributable. See LICENCE.cw1200 for details.

File: sdd_sagrad_1091_1098.bin

Licence:

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(Please note that the actual device firmware is separately licensed)

Driver: BFA/BNA - QLogic BR-series Adapter FC/FCOE drivers

File: cbfw-3.2.1.1.bin
File: ctfw-3.2.1.1.bin
File: ct2fw-3.2.1.1.bin
File: cbfw-3.2.3.0.bin
File: ctfw-3.2.3.0.bin
File: ct2fw-3.2.3.0.bin
File: cbfw-3.2.5.1.bin
File: ctfw-3.2.5.1.bin

File: ct2fw-3.2.5.1.bin

Licence:

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Driver: qat - Intel(R) QAT crypto accelerator

File: qat_895xcc.bin
File: qat_895xcc_mmp.bin
File: qat_c3xxx.bin
File: qat_c3xxx_mmp.bin
File: qat_c62x.bin
File: qat_c62x_mmp.bin
Link: qat_mmp.bin -> qat_895xcc_mmp.bin

Licence: Redistributable. See LICENCE.qat_firmware for details

Driver: rsi -- Redpine Signals Inc 91x driver

File: rsi_91x.fw

File: rsi/rs9113_wlan_qspi.rps
Version: 1.6.1

File: rsi/rs9113_wlan_bt_dual_mode.rps
Version: 1.6.1

File: rsi/rs9113_ap_bt_dual_mode.rps
Version: 1.6.1

File: rsi/rs9116_wlan.rps
Version: 1.0.5b

File: rsi/rs9116_wlan_bt_classic.rps
Version: 1.0.5b

Licence:

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Driver: xhci-rcar -- Renesas R-Car Gen2/3 USB 3.0 host controller driver

File: r8a779x_usb3_v1.dlmem
File: r8a779x_usb3_v2.dlmem
File: r8a779x_usb3_v3.dlmem

Licence: Redistributable. See LICENCE.r8a779x_usb3 for details.

Driver: snd_soc_sst_acpi

File: intel/fw_sst_0f28.bin-48kHz_i2s_master

Licence: Redistributable. See LICENCE.fw_sst_0f28 for details

Driver: as102 - Abilis Systems Single DVB-T Receiver

File: as102_data1_st.hex
File: as102_data2_st.hex

Licence: Redistributable. See LICENCE.Abilis for details

Driver: it9135 -- ITEtech IT913x DVB-T USB driver

File: dvb-usb-it9135-01.fw
File: dvb-usb-it9135-02.fw

Licence: Redistributable. See LICENCE.it913x for details

Driver: snd_soc_sst_acpi

File: intel/IntcSST2.bin
Version: 8.4.1.77

Licence: Redistributable. See LICENCE.IntcSST2 for details

Driver: snd_intel_sst_core

File: intel/fw_sst_0f28.bin
File: intel/fw_sst_0f28_ssp0.bin

Licence: Redistributable. See LICENCE.fw_sst_0f28 for details

Driver: snd_intel_sst_core

File: intel/fw_sst_22a8.bin
Version: 01.00.02.02

Licence: Redistributable. See LICENCE.fw_sst_0f28 for details

Driver: snd-soc-skl

File: intel/dsp_fw_release_v969.bin
Version: 8.20.00.969

File: intel/dsp_fw_release_v3402.bin
Version: 9.21.00.3402_161
Link: intel/dsp_fw_release.bin -> dsp_fw_release_v3402.bin

License: Redistributable. See LICENCE.adsp_sst for details

File: intel/dsp_fw_bxtn_v2219.bin
Version: 9.22.01.2219_64
File: intel/dsp_fw_bxtn_v3366.bin
Version: 9.22.01.3366_157
Link: intel/dsp_fw_bxtn.bin -> dsp_fw_bxtn_v3366.bin

License: Redistributable. See LICENCE.adsp_sst for details

File: intel/dsp_fw_kbl_v701.bin
Version: 9.21.00.701
File: intel/dsp_fw_kbl_v1037.bin
Version: 09.21.00.1037
File: intel/dsp_fw_kbl_v2042.bin
Version: 9.21.00.2042_46
File: intel/dsp_fw_kbl_v2630.bin
Version: 9.21.00.2630_97
File: intel/dsp_fw_kbl_v3266.bin
Version: 9.21.00.3266_144
File: intel/dsp_fw_kbl_v3420.bin
Version: 9.21.00.3420_163
File: intel/dsp_fw_kbl_v3402.bin
Version: 9.21.00.3402_161
Link: intel/dsp_fw_kbl.bin -> dsp_fw_kbl_v3402.bin

License: Redistributable. See LICENCE.adsp_sst for details

File: intel/dsp_fw_glk_v1814.bin
Version: 9.92.01.1814
File: intel/dsp_fw_glk_v2880.bin
Version: 9.22.00.2880
File: intel/dsp_fw_glk_v2768.bin
Version: 9.22.01.2768
File: intel/dsp_fw_glk_v3366.bin
Version: 9.22.01.3366_157
Link: intel/dsp_fw_glk.bin -> dsp_fw_glk_v3366.bin

File: intel/dsp_fw_cnl_v1191.bin
Version: 10.00.00.1191
File: intel/dsp_fw_cnl_v1858.bin
Version: 10.23.00.1858
Link: intel/dsp_fw_cnl.bin -> dsp_fw_cnl_v1858.bin

License: Redistributable. See LICENCE.adsp_sst for details

Driver: smsmdtv - Siano MDTV Core module

File: cmmb_vega_12mhz.inp
File: cmmb_vernice_12mhz.inp
File: dvb_nova_12mhz.inp
File: dvb_nova_12mhz_b0.inp
File: isdbt_nova_12mhz.inp
File: isdbt_nova_12mhz_b0.inp
File: isdbt_rio.inp
File: smslxxx-hcw-55xxx-dvbt-02.fw
File: smslxxx-hcw-55xxx-isdbt-02.fw
File: smslxxx-nova-a-dvbt-01.fw
File: smslxxx-nova-b-dvbt-01.fw
File: smslxxx-stellar-dvbt-01.fw
File: tdmn_nova_12mhz.inp

License: Redistributable. See LICENCE.siano for details

Driver: xhci-tegra -- NVIDIA Tegra XHCI driver

File: nvidia/tegra124/xusb.bin
Version: v45.46

File: nvidia/tegra210/xusb.bin
Version: v50.24

File: nvidia/tegra186/xusb.bin
Version: v55.15

File: nvidia/tegra194/xusb.bin
Version: v60.06

License: Redistributable. See LICENCE.nvidia for details

Driver: tegra-vic -- NVIDIA Tegra VIC driver

File: nvidia/tegra124/vic03_ucose.bin
Link: nvidia/tegra124/vic.bin -> vic03_ucose.bin

File: nvidia/tegra210/vic04_ucose.bin
Link: nvidia/tegra210/vic.bin -> vic04_ucose.bin

File: nvidia/tegra186/vic04_ucose.bin
Link: nvidia/tegra186/vic.bin -> vic04_ucose.bin

File: nvidia/tegra194/vic.bin

License: Redistributable. See LICENCE.nvidia for details

Driver: atusb - ATUSB IEEE 802.15.4 transceiver driver

File: atusb/atusb-0.2.dfu
Version: 0.2

File: atusb/atusb-0.3.dfu
Version: 0.3

File: atusb/rzusb-0.3.bin
Version: 0.3

Info: atusb/ChangeLog

License: GPLv2 or later. See GPL-2 and GPL-3 for details.

Driver: btqca - Qualcomm Atheros Bluetooth support for QCA61x4 chips

File: qca/nvm_usb_00000201.bin
File: qca/nvm_usb_00000200.bin
File: qca/nvm_usb_00000300.bin
File: qca/nvm_usb_00000302.bin
File: qca/nvm_00130300.bin
File: qca/nvm_00130302.bin
File: qca/nvm_00230302.bin
File: qca/rampatch_usb_00000200.bin
File: qca/rampatch_usb_00000201.bin
File: qca/rampatch_usb_00000300.bin

File: qca/rampatch_usb_00000302.bin
File: qca/rampatch_00130300.bin
File: qca/rampatch_00130302.bin
File: qca/rampatch_00230302.bin
File: qca/nvm_00440302.bin
File: qca/rampatch_00440302.bin
File: qca/nvm_00440302_eu.bin
File: qca/nvm_00440302_i2s_eu.bin
File: qca/nvm_usb_00000302_eu.bin
File: qca/htbtfw20.tlv
File: qca/htnv20.bin
File: qca/rampatch_usb_00130200.bin
File: qca/nvm_usb_00130200.bin
File: qca/nvm_usb_00130200_0104.bin
File: qca/nvm_usb_00130200_0105.bin
File: qca/nvm_usb_00130200_0106.bin
File: qca/nvm_usb_00130200_0107.bin
File: qca/nvm_usb_00130200_0110.bin

Licence: Redistributable. See LICENSE.QualcommAtheros_ath10k and qca/NOTICE.txt for details

Driver: qca - Qualcomm Atheros Bluetooth support for WCN399x chips

File: qca/crbtfw21.tlv
File: qca/crnv21.bin
File: qca/crbtfw32.tlv
File: qca/crnv32.bin
File: qca/crnv32u.bin

Driver: qca - Qualcomm Atheros Bluetooth support for WCN6750 chips

File: qca/msbtfw11.mbn
File: qca/msbtfw11.tlv
File: qca/msnv11.bin

Licence: Redistributable. See LICENSE.QualcommAtheros_ath10k and qca/NOTICE.txt for details

Driver: liquidio -- Cavium LiquidIO driver

File: liquidio/lio_23xx_nic.bin
Version: v1.7.2

File: liquidio/lio_23xx_vsw.bin
Version: v1.7.2

File: liquidio/lio_210nv_nic.bin
Version: v1.7.2

File: liquidio/lio_210sv_nic.bin
Version: v1.7.2

File: liquidio/lio_410nv_nic.bin
Version: v1.7.2

Licence: Redistributable. See LICENSE.cavium_liquidio for details

Driver: nitrox -- Cavium CNN55XX crypto driver

File: cavium/cnn55xx_ae.fw
Version: v01

File: cavium/cnn55xx_se.fw
Version: v10

Licence: Redistributable. See LICENSE.cavium for details

Driver: i915 -- Intel Integrated Graphics driver

File: i915/skl_dmc_ver1_23.bin
File: i915/skl_dmc_ver1_26.bin
File: i915/skl_dmc_ver1_27.bin
Link: i915/skl_dmc_ver1.bin -> skl_dmc_ver1_26.bin
Version: DMC API/ABI ver 1 - release 27 for Skylake

File: i915/bxt_dmc_ver1_07.bin
Link: i915/bxt_dmc_ver1.bin -> bxt_dmc_ver1_07.bin
Version: DMC API/ABI ver 1 - release 07 for Broxton

File: i915/kbl_dmc_ver1_01.bin
Link: i915/kbl_dmc_ver1.bin -> kbl_dmc_ver1_01.bin
Version: DMC API/ABI ver 1 - release 01 for Kabylake

File: i915/kbl_dmc_ver1_04.bin
Version: DMC API/ABI ver 1 - release 04 for Kabylake

File: i915/skl_guc_ver1.bin
Version: Guc API/ABI ver 1 - release 1059 for Skylake

File: i915/skl_guc_ver4.bin
Version: Guc API/ABI ver 4 - release 3 for Skylake

File: i915/skl_guc_ver6_1.bin
Link: i915/skl_guc_ver6.bin -> skl_guc_ver6_1.bin
Version: Guc API/ABI ver 6 - release 1 for Skylake

File: i915/skl_guc_ver9_33.bin
Version: Guc API/ABI ver 9 - release 33 for Skylake

File: i915/skl_guc_32.0.3.bin
Version: Guc API/ABI ver 32 - release 0 for Skylake

File: i915/skl_guc_33.0.0.bin
Version: Guc API/ABI ver 33 - release 0 for Skylake

File: i915/skl_guc_49.0.1.bin
Version: Guc API/ABI ver 49 - release 0 for Skylake

File: i915/skl_guc_62.0.0.bin
Version: GuC API/APB ver 62.0.0 for Skylake

File: i915/skl_huc_ver01_07_1398.bin
Version: HuC API/ABI ver 1 - release 7 for Skylake

File: i915/skl_huc_2.0.0.bin
Version: HuC API/ABI ver 2 - release 0 for Skylake

File: i915/bxt_huc_ver01_07_1398.bin
Version: HuC API/APB ver 1 - release 7 for Broxton

File: i915/bxt_huc_ver01_8_2893.bin
Version: HuC API/APB ver 1 - release 8 for Broxton

File: i915/bxt_huc_2.0.0.bin
Version: HuC API/APB ver 2 - release 0 for Broxton

File: i915/kbl_huc_ver02_00_1810.bin
Version: HuC API/APB ver 2 - for Kabylake

File: i915/kbl_huc 4.0.0.bin
Version: HuC API/APB ver 4 - for Kabylake

File: i915/bxt_guc_ver8_7.bin
Version: Guc API/APB ver 8 - release 7 for Broxton

File: i915/bxt_guc_ver9_29.bin
Version: Guc API/APB ver 9 - release 29 for Broxton

File: i915/bxt_guc_32.0.3.bin
Version: Guc API/APB ver 32 - release 0 for Broxton

File: i915/bxt_guc_33.0.0.bin
Version: Guc API/APB ver 33 - release 0 for Broxton

File: i915/bxt_guc_49.0.1.bin
Version: Guc API/APB ver 49 - release 0 for Broxton

File: i915/bxt_guc_62.0.0.bin
Version: Guc API/APB ver 62.0.0 for Broxton

File: i915/kbl_guc_ver9_14.bin
Version: Guc API/APB ver 9 release 14 for Kabylake

File: i915/cml_guc_33.0.0.bin
Version: Guc API/APB ver 33 release 0 for Comet Lake

File: i915/cml_guc_49.0.1.bin
Version: Guc API/APB ver 49 release 0 for Comet Lake

File: i915/cml_guc_62.0.0.bin
Version: Guc API/APB ver 62.0.0 for Comet Lake

File: i915/kbl_guc_ver9_39.bin
Version: Guc API/APB ver 9 release 39 for Kabylake

File: i915/kbl_guc_32.0.3.bin
Version: Guc API/APB ver 32 release 0 for Kabylake

File: i915/kbl_guc_33.0.0.bin
Version: Guc API/APB ver 33 release 0 for Kabylake

File: i915/kbl_guc_49.0.1.bin
Version: Guc API/APB ver 49 release 0 for Kabylake

File: i915/kbl_guc_62.0.0.bin
Version: Guc API/APB ver 62.0.0 for Kabylake

File: i915/glk_guc_32.0.3.bin
Version: Guc API/APB ver 32 release 0 for Geminilake

File: i915/glk_guc_33.0.0.bin
Version: Guc API/APB ver 33 release 0 for Geminilake

File: i915/glk_guc_49.0.1.bin
Version: Guc API/APB ver 49 release 0 for Geminilake

File: i915/glk_guc_62.0.0.bin
Version: Guc API/APB ver 62.0.0 for Geminilake

File: i915/glk_huc_ver03_01_2893.bin
Version: HuC API/APB ver 3 release 1 for Geminilake

File: i915/glk_huc_4.0.0.bin
Version: HuC API/APB ver 4 release 0 for Geminilake

File: i915/glk_dmc_ver1_04.bin
Version: DMC API/ABI ver 1 - release 04 for Geminilake

File: i915/cml_huc 4.0.0.bin
Version: HuC API/ABI ver 4 - release 0 for Cometlake

File: i915/cnl_dmc_ver1_06.bin
Version: DMC API/ABI ver 1 - release 06 for Cannonlake

File: i915/cnl_dmc_ver1_07.bin
Version: DMC API/ABI ver 1 - release 07 for Cannonlake

File: i915/icl_dmc_ver1_07.bin
Version: DMC API/ABI ver 1 - release 07 for icelake

File: i915/icl_dmc_ver1_09.bin
Version: DMC API/ABI ver 1 - release 09 for icelake

File: i915/icl_guc_32.0.3.bin
Version: Guc API/APB ver 32 release 0 for Icelake

File: i915/icl_guc_33.0.0.bin
Version: Guc API/APB ver 33 release 0 for Icelake

File: i915/icl_guc_49.0.1.bin
Version: Guc API/APB ver 49 release 0 for Icelake

File: i915/icl_guc_62.0.0.bin
Version: Guc API/APB ver 62.0.0 for Icelake

File: i915/icl_huc_ver8_4_3238.bin
Version: HuC API/APB ver 8 release 4 for Icelake

File: i915/tgl_dmc_ver2_04.bin
Version: DMC API/APB ver 2 release 4 for Tigerlake

File: i915/tgl_dmc_ver2_06.bin
Version: DMC API/APB ver 2 release 6 for Tigerlake

File: i915/tgl_dmc_ver2_08.bin
Version: DMC API/APB ver 2 release 8 for Tigerlake

File: i915/tgl_dmc_ver2_12.bin
Version: DMC API/APB ver 2 release 12 for Tigerlake

File: i915/icl_huc_9.0.0.bin
Version: HuC API/APB ver 9 release 0 for Icelake

File: i915/ehl_guc_33.0.4.bin
Version: Guc API/APB ver 33 release 0 for Elkhartlake

File: i915/ehl_guc_49.0.1.bin
Version: Guc API/APB ver 49 release 0 for Elkhartlake

File: i915/ehl_guc_62.0.0.bin
Version: Guc API/APB ver 62.0.0 for Elkhartlake

File: i915/ehl_huc 9.0.0.bin
Version: HuC API/APB ver 9 release 0 for Elkhartlake

File: i915/tgl_guc_35.2.0.bin
Version: Guc API/APB ver 35 release 2 for Tigerlake

File: i915/tgl_guc_49.0.1.bin

Version: Guc API/APB ver 49 release 0 for Tigerlake

File: i915/tgl_guc_62.0.0.bin
Version: GuC API/APB ver 62.0.0 for Tigerlake

File: i915/tgl_huc_7.0.3.bin
Version: Huc API/APB ver 7 release 0 for Tigerlake

File: i915/tgl_huc_7.0.12.bin
Version: Huc API/APB ver 7 release 0 for Tigerlake

File: i915/tgl_huc_7.5.0.bin
Version: Huc API/APB ver 7 release 5 for Tigerlake

File: i915/tgl_huc_7.9.3.bin
Version: Huc API/APB ver 7.9.3 for Tigerlake

File: i915/rkl_dmc_ver2_02.bin
Version: DMC API/APB ver 2 release 2 for Rocketlake

File: i915/rkl_dmc_ver2_03.bin
Version: DMC API/APB ver 2 release 3 for Rocketlake

File: i915/dg1_dmc_ver2_02.bin
Version: DMC API/APB ver 2 release 2 for DG1

File: i915/dg1_guc_49.0.1.bin
Version: Guc API/APB ver 49 release 0 for DG1

File: i915/dg1_guc_62.0.0.bin
Version: GuC API/APB ver 62.0.0 for DG1

File: i915/dg1_huc_7.7.1.bin
Version: Huc API/APB ver 7 release 1 for DG1

File: i915/dg1_huc_7.9.3.bin
Version: Huc API/APB ver 7.9.3 for DG1

File: i915/adls_dmc_ver2_01.bin
Version: DMC API/APB ver 2 release 1 for Alderlake S

File: i915/adlp_dmc_ver2_09.bin
Version: DMC API/APB ver 2 release 9 for Alderlake P

File: i915/adlp_dmc_ver2_10.bin
Version: DMC API/APB ver 2 release 10 for Alderlake P

File: i915/adlp_guc_62.0.3.bin
Version: GuC API/APB ver 62.0.3 for Alderlake P

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Driver: nouveau - NVIDIA GPU driver

File: nvidia/gk20a/fecs_data.bin
File: nvidia/gk20a/fecs_inst.bin
File: nvidia/gk20a/gpccs_data.bin
File: nvidia/gk20a/gpccs_inst.bin
File: nvidia/gk20a/sw_bundle_init.bin
File: nvidia/gk20a/sw_ctx.bin
File: nvidia/gk20a/sw_method_init.bin
File: nvidia/gk20a/sw_nonctx.bin
File: nvidia/gm200/acr/bl.bin
File: nvidia/gm200/acr/ucode_load.bin
File: nvidia/gm200/acr/ucode_unload.bin
File: nvidia/gm200/gr/fecs_bl.bin
File: nvidia/gm200/gr/fecs_data.bin
File: nvidia/gm200/gr/fecs_inst.bin
File: nvidia/gm200/gr/fecs_sig.bin
File: nvidia/gm200/gr/gpccs_bl.bin
File: nvidia/gm200/gr/gpccs_data.bin
File: nvidia/gm200/gr/gpccs_inst.bin
File: nvidia/gm200/gr/gpccs_sig.bin
File: nvidia/gm200/gr/sw_bundle_init.bin
File: nvidia/gm200/gr/sw_ctx.bin
File: nvidia/gm200/gr/sw_method_init.bin
File: nvidia/gm200/gr/sw_nonctx.bin
Link: nvidia/gm204/acr/bl.bin -> ../gm200/acr/bl.bin
Link: nvidia/gm204/acr/ucode_load.bin -> ../gm200/acr/ucode_load.bin
Link: nvidia/gm204/acr/ucode_unload.bin -> ../gm200/acr/ucode_unload.bin
Link: nvidia/gm204/gr/fecs_bl.bin -> ../gm200/gr/fecs_bl.bin
File: nvidia/gm204/gr/fecs_data.bin
Link: nvidia/gm204/gr/fecs_inst.bin -> ../gm200/gr/fecs_inst.bin
File: nvidia/gm204/gr/fecs_sig.bin
Link: nvidia/gm204/gr/gpccs_bl.bin -> ../gm200/gr/gpccs_bl.bin
File: nvidia/gm204/gr/gpccs_data.bin
Link: nvidia/gm204/gr/gpccs_inst.bin -> ../gm200/gr/gpccs_inst.bin
File: nvidia/gm204/gr/gpccs_sig.bin
Link: nvidia/gm204/gr/sw_bundle_init.bin -> ../gm200/gr/sw_bundle_init.bin
Link: nvidia/gm204/gr/sw_ctx.bin -> ../gm200/gr/sw_ctx.bin
Link: nvidia/gm204/gr/sw_method_init.bin -> ../gm200/gr/sw_method_init.bin
Link: nvidia/gm204/gr/sw_nonctx.bin -> ../gm200/gr/sw_nonctx.bin
Link: nvidia/gm206/acr/bl.bin -> ../gm200/acr/bl.bin
File: nvidia/gm206/acr/ucode_load.bin
File: nvidia/gm206/acr/ucode_unload.bin
Link: nvidia/gm206/gr/fecs_bl.bin -> ../gm200/gr/fecs_bl.bin
File: nvidia/gm206/gr/fecs_data.bin
Link: nvidia/gm206/gr/fecs_inst.bin -> ../gm200/gr/fecs_inst.bin
File: nvidia/gm206/gr/fecs_sig.bin
Link: nvidia/gm206/gr/gpccs_bl.bin -> ../gm200/gr/gpccs_bl.bin
File: nvidia/gm206/gr/gpccs_data.bin
Link: nvidia/gm206/gr/gpccs_inst.bin -> ../gm200/gr/gpccs_inst.bin
File: nvidia/gm206/gr/gpccs_sig.bin
Link: nvidia/gm206/gr/sw_bundle_init.bin -> ../gm200/gr/sw_bundle_init.bin
Link: nvidia/gm206/gr/sw_ctx.bin -> ../gm200/gr/sw_ctx.bin
Link: nvidia/gm206/gr/sw_method_init.bin -> ../gm200/gr/sw_method_init.bin
Link: nvidia/gm206/gr/sw_nonctx.bin -> ../gm200/gr/sw_nonctx.bin
File: nvidia/gm20b/acr/bl.bin
File: nvidia/gm20b/acr/ucode_load.bin
File: nvidia/gm20b/gr/fecs_bl.bin
File: nvidia/gm20b/gr/fecs_data.bin
File: nvidia/gm20b/gr/fecs_inst.bin
File: nvidia/gm20b/gr/fecs_sig.bin
File: nvidia/gm20b/gr/gpccs_data.bin
File: nvidia/gm20b/gr/gpccs_inst.bin
File: nvidia/gm20b/gr/sw_bundle_init.bin
File: nvidia/gm20b/gr/sw_ctx.bin
Link: nvidia/gm20b/gr/sw_method_init.bin -> ../gm200/gr/sw_method_init.bin
File: nvidia/gm20b/gr/sw_nonctx.bin
File: nvidia/gm20b/pmu/desc.bin
File: nvidia/gm20b/pmu/image.bin
File: nvidia/gm20b/pmu/sig.bin
File: nvidia/gp100/acr/bl.bin
File: nvidia/gp100/acr/ucode_load.bin
File: nvidia/gp100/acr/ucode_unload.bin
Link: nvidia/gp100/gr/fecs_bl.bin -> ../gm200/gr/fecs_bl.bin
File: nvidia/gp100/gr/fecs_data.bin
File: nvidia/gp100/gr/fecs_inst.bin
File: nvidia/gp100/gr/fecs_sig.bin
Link: nvidia/gp100/gr/gpccs_bl.bin -> ../gm200/gr/gpccs_bl.bin
File: nvidia/gp100/gr/gpccs_data.bin
File: nvidia/gp100/gr/gpccs_inst.bin

Link: nvidia/gp108/sec2/sig.bin -> ../../gp102/sec2/sig-1.bin
File: nvidia/gv100/acr/bl.bin
File: nvidia/gv100/acr/ucode_load.bin
File: nvidia/gv100/acr/ucode_unload.bin
File: nvidia/gv100/acr/unload_bl.bin
File: nvidia/gv100/gr/fecs_bl.bin
File: nvidia/gv100/gr/fecs_data.bin
File: nvidia/gv100/gr/fecs_inst.bin
File: nvidia/gv100/gr/fecs_sig.bin
File: nvidia/gv100/gr/gpccs_bl.bin
File: nvidia/gv100/gr/gpccs_data.bin
File: nvidia/gv100/gr/gpccs_inst.bin
File: nvidia/gv100/gr/gpccs_sig.bin
File: nvidia/gv100/gr/sw_bundle_init.bin
File: nvidia/gv100/gr/sw_ctx.bin
File: nvidia/gv100/gr/sw_method_init.bin
File: nvidia/gv100/gr/sw_nonctx.bin
File: nvidia/gv100/nvdec/scrubber.bin
File: nvidia/gv100/sec2/desc.bin
File: nvidia/gv100/sec2/image.bin
File: nvidia/gv100/sec2/sig.bin
File: nvidia/tu102/acr/bl.bin
File: nvidia/tu102/acr/ucode_ahesasc.bin
File: nvidia/tu102/acr/ucode_asb.bin
File: nvidia/tu102/acr/unload_bl.bin
File: nvidia/tu102/acr/ucode_unload.bin
File: nvidia/tu102/gr/fecs_bl.bin
File: nvidia/tu102/gr/fecs_data.bin
File: nvidia/tu102/gr/fecs_inst.bin
File: nvidia/tu102/gr/fecs_sig.bin
File: nvidia/tu102/gr/gpccs_bl.bin
File: nvidia/tu102/gr/gpccs_data.bin
File: nvidia/tu102/gr/gpccs_inst.bin
File: nvidia/tu102/gr/gpccs_sig.bin
File: nvidia/tu102/gr/sw_bundle_init.bin
File: nvidia/tu102/gr/sw_ctx.bin
File: nvidia/tu102/gr/sw_method_init.bin
File: nvidia/tu102/gr/sw_nonctx.bin
File: nvidia/tu102/gr/sw_veid_bundle_init.bin
File: nvidia/tu102/nvdec/scrubber.bin
File: nvidia/tu102/sec2/desc.bin
File: nvidia/tu102/sec2/image.bin
File: nvidia/tu102/sec2/sig.bin
Link: nvidia/tu104/acr/bl.bin -> ../../tu102/acr/bl.bin
Link: nvidia/tu104/acr/ucode_ahesasc.bin -> ../../tu102/acr/ucode_ahesasc.bin
Link: nvidia/tu104/acr/ucode_asb.bin -> ../../tu102/acr/ucode_asb.bin
Link: nvidia/tu104/acr/unload_bl.bin -> ../../tu102/acr/unload_bl.bin
Link: nvidia/tu104/acr/ucode_unload.bin -> ../../tu102/acr/ucode_unload.bin
Link: nvidia/tu104/gr/fecs_bl.bin -> ../../tu102/gr/fecs_bl.bin
File: nvidia/tu104/gr/fecs_data.bin
File: nvidia/tu104/gr/fecs_inst.bin
File: nvidia/tu104/gr/fecs_sig.bin
Link: nvidia/tu104/gr/gpccs_bl.bin -> ../../tu102/gr/gpccs_bl.bin
File: nvidia/tu104/gr/gpccs_data.bin
File: nvidia/tu104/gr/gpccs_inst.bin
File: nvidia/tu104/gr/gpccs_sig.bin
File: nvidia/tu104/gr/sw_bundle_init.bin
File: nvidia/tu104/gr/sw_ctx.bin
File: nvidia/tu104/gr/sw_method_init.bin
File: nvidia/tu104/gr/sw_nonctx.bin
File: nvidia/tu104/gr/sw_veid_bundle_init.bin
Link: nvidia/tu104/nvdec/scrubber.bin -> ../../tu102/nvdec/scrubber.bin
Link: nvidia/tu104/sec2/desc.bin -> ../../tu102/sec2/desc.bin
Link: nvidia/tu104/sec2/image.bin -> ../../tu102/sec2/image.bin
Link: nvidia/tu104/sec2/sig.bin -> ../../tu102/sec2/sig.bin
Link: nvidia/tu106/acr/bl.bin -> ../../tu102/acr/bl.bin
Link: nvidia/tu106/acr/ucode_ahesasc.bin -> ../../tu102/acr/ucode_ahesasc.bin
Link: nvidia/tu106/acr/ucode_asb.bin -> ../../tu102/acr/ucode_asb.bin
Link: nvidia/tu106/acr/unload_bl.bin -> ../../tu102/acr/unload_bl.bin
Link: nvidia/tu106/acr/ucode_unload.bin -> ../../tu102/acr/ucode_unload.bin
Link: nvidia/tu106/gr/fecs_bl.bin -> ../../tu102/gr/fecs_bl.bin
File: nvidia/tu106/gr/fecs_data.bin
File: nvidia/tu106/gr/fecs_inst.bin
File: nvidia/tu106/gr/fecs_sig.bin
Link: nvidia/tu106/gr/gpccs_bl.bin -> ../../tu102/gr/gpccs_bl.bin
File: nvidia/tu106/gr/gpccs_data.bin
File: nvidia/tu106/gr/gpccs_inst.bin
File: nvidia/tu106/gr/gpccs_sig.bin
File: nvidia/tu106/gr/sw_bundle_init.bin
File: nvidia/tu106/gr/sw_ctx.bin
File: nvidia/tu106/gr/sw_method_init.bin
File: nvidia/tu106/gr/sw_nonctx.bin
File: nvidia/tu106/gr/sw_veid_bundle_init.bin
Link: nvidia/tu106/nvdec/scrubber.bin -> ../../tu102/nvdec/scrubber.bin
Link: nvidia/tu106/sec2/desc.bin -> ../../tu102/sec2/desc.bin
Link: nvidia/tu106/sec2/image.bin -> ../../tu102/sec2/image.bin
Link: nvidia/tu106/sec2/sig.bin -> ../../tu102/sec2/sig.bin
File: nvidia/tu116/acr/bl.bin
File: nvidia/tu116/acr/ucode_ahesasc.bin
File: nvidia/tu116/acr/ucode_asb.bin
File: nvidia/tu116/acr/ucode_unload.bin
File: nvidia/tu116/acr/unload_bl.bin
File: nvidia/tu116/gr/fecs_bl.bin
File: nvidia/tu116/gr/fecs_data.bin
File: nvidia/tu116/gr/fecs_inst.bin
File: nvidia/tu116/gr/fecs_sig.bin
File: nvidia/tu116/gr/gpccs_bl.bin
File: nvidia/tu116/gr/gpccs_data.bin
File: nvidia/tu116/gr/gpccs_inst.bin
File: nvidia/tu116/gr/gpccs_sig.bin
File: nvidia/tu116/gr/sw_bundle_init.bin
File: nvidia/tu116/gr/sw_ctx.bin
File: nvidia/tu116/gr/sw_method_init.bin
File: nvidia/tu116/gr/sw_nonctx.bin
File: nvidia/tu116/gr/sw_veid_bundle_init.bin
File: nvidia/tu116/nvdec/scrubber.bin
File: nvidia/tu116/sec2/desc.bin
File: nvidia/tu116/sec2/image.bin
File: nvidia/tu116/sec2/sig.bin
Link: nvidia/tu117/acr/bl.bin -> ../../tu116/acr/bl.bin
Link: nvidia/tu117/acr/ucode_ahesasc.bin -> ../../tu116/acr/ucode_ahesasc.bin
Link: nvidia/tu117/acr/ucode_asb.bin -> ../../tu116/acr/ucode_asb.bin
Link: nvidia/tu117/acr/ucode_unload.bin -> ../../tu116/acr/ucode_unload.bin
Link: nvidia/tu117/acr/unload_bl.bin -> ../../tu116/acr/unload_bl.bin
Link: nvidia/tu117/gr/fecs_bl.bin -> ../../tu116/gr/fecs_bl.bin
File: nvidia/tu117/gr/fecs_data.bin
File: nvidia/tu117/gr/fecs_inst.bin
File: nvidia/tu117/gr/fecs_sig.bin
Link: nvidia/tu117/gr/gpccs_bl.bin -> ../../tu116/gr/gpccs_bl.bin
File: nvidia/tu117/gr/gpccs_data.bin
File: nvidia/tu117/gr/gpccs_inst.bin
File: nvidia/tu117/gr/gpccs_sig.bin
File: nvidia/tu117/gr/sw_bundle_init.bin
File: nvidia/tu117/gr/sw_ctx.bin
File: nvidia/tu117/gr/sw_method_init.bin
File: nvidia/tu117/gr/sw_nonctx.bin
File: nvidia/tu117/gr/sw_veid_bundle_init.bin
Link: nvidia/tu117/nvdec/scrubber.bin -> ../../tu116/nvdec/scrubber.bin
Link: nvidia/tu117/sec2/desc.bin -> ../../tu116/sec2/desc.bin
Link: nvidia/tu117/sec2/image.bin -> ../../tu116/sec2/image.bin
Link: nvidia/tu117/sec2/sig.bin -> ../../tu116/sec2/sig.bin
File: nvidia/tu10x/typec/ccg_primary.cyacd

File: nvidia/tu10x/typec/ccg_secondary.cyacd
File: nvidia/tu10x/typec/ccg_boot.cyacd

Licence: Redistributable. See LICENCE.nvidia for details

Driver: wilc1000 - Atmel 802.11n WLAN driver for WILC1000

File: atmel/wilc1000_fw.bin
File: atmel/wilc1000_ap_fw.bin
File: atmel/wilc1000_p2p_fw.bin
File: atmel/wilc1000_wifi_firmware.bin
File: atmel/wilc1000_wifi_firmware-1.bin
Version: 15.4

Licence: Redistributable. See LICENSE.atmel for details

Driver: hfil - Intel OPA Gen 1 adapter

File: hfil_dc8051.fw
Version: 1.27.0
File: hfil_fabric.fw
Version: 0x1055
File: hfil_pcie.fw
Version: 0x4755
File: hfil_sbuses.fw
Version: 0x10130001

Licence: Redistributable. See LICENSE.hfil_firmware for details

Driver: knav_qmss_queue - TI Keystone 2 QMSS driver

File: ti-keystone/ks2_qmss_pdsp_acc48_k2_le_1_0_0_9.bin

Licence: Redistributable. See LICENCE.ti-keystone for details.

Driver: mwlfwif - Marvell mac80211 driver for 80211ac cards.

File: mwlfwif/88W8864.bin
Version: 7.2.8.6

File: mwlfwif/88W8897.bin
Version: 8.2.0.10

Licence: Redistributable. See LICENCE.Marvell for details.

Driver: mtk-vpu - Mediatek VPU video processing unit driver

File: mediatek/mt8173/vpu_d.bin
File: mediatek/mt8173/vpu_p.bin
Link: vpu_d.bin -> mediatek/mt8173/vpu_d.bin
Link: vpu_p.bin -> mediatek/mt8173/vpu_p.bin

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Driver: mtk_scp - Mediatek SCP System Control Processing Driver

File: mediatek/mt8183/scp.img

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Driver: btmtk - MediaTek Bluetooth Driver

File: mediatek/mt7622pr2h.bin
Version: 20180621204904
File: mediatek/mt7668pr2h.bin
Version: 20180517181834
File: mediatek/mt7663pr2h.bin
Version: 7663e2ccn04-2006030247

Licence: Redistributable. See LICENCE.mediatek for details.

Driver: rk3399-dptx - ROCKCHIP rk3399 dptx firmware

File: rockchip/dptx.bin
Version: 3.1

Licence: Redistributable. See LICENCE.rockchip for details.

Driver: mt76x0 - MediaTek MT76x0 Wireless MACs

File: mediatek/mt7610u.bin
File: mediatek/mt7610e.bin
Version: 2.6
File: mediatek/mt7650e.bin
Version: 1.0.07-b370

Licence: Redistributable. See LICENCE.mediatek for details.

Driver: mt76x2e - MediaTek MT76x2 Wireless MACs

File: mt7662.bin
Version: 1.9

File: mt7662_rom_patch.bin
Version: 0.0.2_P69
Licence: Redistributable. See LICENCE.ralink_a_mEDIATEK_company_firmware for details

Driver: mt76x2u - MediaTek MT76x2u Wireless MACs

File: mediatek/mt7662u.bin
Version: 1.5

File: mediatek/mt7662u_rom_patch.bin
Version: 0.0.2_P48

Licence: Redistributable. See LICENCE.mediatek for details.

Driver: mt7615e - MediaTek MT7615e Wireless MACs

File: mediatek/mt7615_n9.bin
Version: 20200814
File: mediatek/mt7615_cr4.bin
Version: 20190114
File: mediatek/mt7615_rom_patch.bin
Version: 20190114

Licence: Redistributable. See LICENCE.mediatek for details.

Driver: mt7622 - MediaTek MT7622 Wireless MACs

File: mediatek/mt7622_n9.bin
Version: 20200131
File: mediatek/mt7622_rom_patch.bin
Version: 20190114

Licence: Redistributable. See LICENCE.mediatek for details.

Driver: mt7663 - MediaTek MT7663 Wireless MACs

File: mediatek/mt7663pr2h.bin
Version: 7663e2ccn04-2006030247
File: mediatek/mt7663_n9_v3.bin
Version: v3.1.1

File: mediatek/mt7663pr2h_rebb.bin
Version: 7663e2-1802-19091404338b809
File: mediatek/mt7663_n9_rebb.bin
Version: 7663mp1827-20190914043434

Licence: Redistributable. See LICENCE.mediatek for details.

Driver: mt7915e - MediaTek MT7915e Wireless MACs

File: mediatek/mt7915_wm.bin
Version: 20201105
File: mediatek/mt7915_wa.bin
Version: 20201105
File: mediatek/mt7915_rom_patch.bin
Version: 20201105

Licence: Redistributable. See LICENCE.mediatek for details.

Driver: mt7921 - MediaTek MT7921 Wireless MACs

File: mediatek/WIFI_MT7961_patch_mcu_1_2_hdr.bin
Version: 20210612122717a
File: mediatek/WIFI_RAM_CODE_MT7961_1.bin
Version: 20210612122753

Licence: Redistributable. See LICENCE.mediatek for details.

Driver: mt7921 - MediaTek MT7921 bluetooth chipset

File: mediatek/BT_RAM_CODE_MT7961_1_2_hdr.bin
Version: 20210223142901

Licence: Redistributable. See LICENCE.mediatek for details.

Driver: mt7922 - MediaTek MT7922 Wireless MACs

File: mediatek/WIFI_MT7922_patch_mcu_1_1_hdr.bin
Version: 20210727184234a
File: mediatek/WIFI_RAM_CODE_MT7922_1.bin
Version: 20210727184325

Licence: Redistributable. See LICENCE.mediatek for details.

Driver: mt7922 - MediaTek MT7922 bluetooth chipset

File: mediatek/BT_RAM_CODE_MT7922_1_1_hdr.bin
Version: 20210901204456

Licence: Redistributable. See LICENCE.mediatek for details.

Driver: nfp - Netronome Flow Processor

Link: netronome/nic_AMDA0081-0001_1x40.nffw -> nic/nic_AMDA0081-0001_1x40.nffw
Link: netronome/nic_AMDA0097-0001_2x40.nffw -> nic/nic_AMDA0097-0001_2x40.nffw
Link: netronome/nic_AMDA0099-0001_2x10.nffw -> nic/nic_AMDA0099-0001_2x10.nffw
Link: netronome/nic_AMDA0081-0001_4x10.nffw -> nic/nic_AMDA0081-0001_4x10.nffw
Link: netronome/nic_AMDA0097-0001_4x10_1x40.nffw -> nic/nic_AMDA0097-0001_4x10_1x40.nffw
Link: netronome/nic_AMDA0099-0001_1x10_1x25.nffw -> nic/nic_AMDA0099-0001_1x10_1x25.nffw
Link: netronome/nic_AMDA0099-0001_2x25.nffw -> nic/nic_AMDA0099-0001_2x25.nffw
Link: netronome/nic_AMDA0096-0001_2x10.nffw -> nic/nic_AMDA0096-0001_2x10.nffw
Link: netronome/nic_AMDA0097-0001_8x10.nffw -> nic/nic_AMDA0097-0001_8x10.nffw
Link: netronome/nic_AMDA0058-0011_2x40.nffw -> nic/nic_AMDA0058-0011_2x40.nffw
Link: netronome/nic_AMDA0058-0012_2x40.nffw -> nic/nic_AMDA0058-0012_2x40.nffw
Link: netronome/nic_AMDA0078-0011_1x100.nffw -> nic/nic_AMDA0078-0011_1x100.nffw
File: netronome/nic/nic_AMDA0081-0001_1x40.nffw
File: netronome/nic/nic_AMDA0097-0001_2x40.nffw
File: netronome/nic/nic_AMDA0099-0001_2x10.nffw
File: netronome/nic/nic_AMDA0081-0001_4x10.nffw
File: netronome/nic/nic_AMDA0097-0001_4x10_1x40.nffw
File: netronome/nic/nic_AMDA0099-0001_1x10_1x25.nffw
File: netronome/nic/nic_AMDA0099-0001_2x25.nffw
File: netronome/nic/nic_AMDA0096-0001_2x10.nffw

File: netronome/nic/nic_AMDAA0097-0001_8x10.nffw
File: netronome/nic/nic_AMDAA0058-0011_2x40.nffw
File: netronome/nic/nic_AMDAA0058-0012_2x40.nffw
File: netronome/nic/nic_AMDAA0078-0011_1x100.nffw
File: netronome/nic-sriov/nic_AMDAA0081-0001_1x40.nffw
File: netronome/nic-sriov/nic_AMDAA0097-0001_2x40.nffw
File: netronome/nic-sriov/nic_AMDAA0099-0001_2x10.nffw
File: netronome/nic-sriov/nic_AMDAA0081-0001_4x10.nffw
File: netronome/nic-sriov/nic_AMDAA0097-0001_4x10_1x40.nffw
File: netronome/nic-sriov/nic_AMDAA0099-0001_1x10_1x25.nffw
File: netronome/nic-sriov/nic_AMDAA0099-0001_2x25.nffw
File: netronome/nic-sriov/nic_AMDAA0096-0001_2x10.nffw
File: netronome/nic-sriov/nic_AMDAA0097-0001_8x10.nffw
File: netronome/nic-sriov/nic_AMDAA0058-0011_2x40.nffw
File: netronome/nic-sriov/nic_AMDAA0058-0012_2x40.nffw
File: netronome/nic-sriov/nic_AMDAA0078-0011_1x100.nffw

Version: v2.1.16.1

File: netronome/flower/nic_AMDAA0099.nffw
File: netronome/flower/nic_AMDAA0096.nffw
File: netronome/flower/nic_AMDAA0097.nffw
File: netronome/flower/nic_AMDAA0058.nffw
Link: netronome/flower/nic_AMDAA0081.nffw -> nic_AMDAA0097.nffw
Link: netronome/flower/nic_AMDAA0081-0001_1x40.nffw -> nic_AMDAA0081.nffw
Link: netronome/flower/nic_AMDAA0097-0001_2x40.nffw -> nic_AMDAA0097.nffw
Link: netronome/flower/nic_AMDAA0099-0001_2x10.nffw -> nic_AMDAA0099.nffw
Link: netronome/flower/nic_AMDAA0081-0001_4x10.nffw -> nic_AMDAA0081.nffw
Link: netronome/flower/nic_AMDAA0097-0001_4x10_1x40.nffw -> nic_AMDAA0097.nffw
Link: netronome/flower/nic_AMDAA0099-0001_2x25.nffw -> nic_AMDAA0099.nffw
Link: netronome/flower/nic_AMDAA0096-0001_2x10.nffw -> nic_AMDAA0096.nffw
Link: netronome/flower/nic_AMDAA0097-0001_8x10.nffw -> nic_AMDAA0097.nffw
Link: netronome/flower/nic_AMDAA0099-0001_1x10_1x25.nffw -> nic_AMDAA0099.nffw
Link: netronome/flower/nic_AMDAA0058-0011_1x100.nffw -> nic_AMDAA0058.nffw
Link: netronome/flower/nic_AMDAA0058-0011_2x40.nffw -> nic_AMDAA0058.nffw
Link: netronome/flower/nic_AMDAA0058-0011_4x10_1x40.nffw -> nic_AMDAA0058.nffw
Link: netronome/flower/nic_AMDAA0058-0011_8x10.nffw -> nic_AMDAA0058.nffw
Link: netronome/flower/nic_AMDAA0058-0012_1x100.nffw -> nic_AMDAA0058.nffw
Link: netronome/flower/nic_AMDAA0058-0012_2x40.nffw -> nic_AMDAA0058.nffw
Link: netronome/flower/nic_AMDAA0058-0012_4x10_1x40.nffw -> nic_AMDAA0058.nffw
Link: netronome/flower/nic_AMDAA0058-0012_8x10.nffw -> nic_AMDAA0058.nffw
Link: netronome/flower/nic_AMDAA0078-0011_1x100.nffw -> nic_AMDAA0058.nffw
Link: netronome/flower/nic_AMDAA0078-0011_2x40.nffw -> nic_AMDAA0058.nffw
Link: netronome/flower/nic_AMDAA0078-0011_4x10_1x40.nffw -> nic_AMDAA0058.nffw
Link: netronome/flower/nic_AMDAA0078-0011_8x10.nffw -> nic_AMDAA0058.nffw
Link: netronome/flower/nic_AMDAA0078-0012_1x100.nffw -> nic_AMDAA0058.nffw
Link: netronome/flower/nic_AMDAA0078-0012_2x40.nffw -> nic_AMDAA0058.nffw
Link: netronome/flower/nic_AMDAA0078-0012_4x10_1x40.nffw -> nic_AMDAA0058.nffw
Link: netronome/flower/nic_AMDAA0078-0012_8x10.nffw -> nic_AMDAA0058.nffw

Version: A0TC-2.14.A.6

File: netronome/bpf/nic_AMDAA0081-0001_1x40.nffw
File: netronome/bpf/nic_AMDAA0097-0001_2x40.nffw
File: netronome/bpf/nic_AMDAA0099-0001_2x10.nffw
File: netronome/bpf/nic_AMDAA0081-0001_4x10.nffw
File: netronome/bpf/nic_AMDAA0097-0001_4x10_1x40.nffw
File: netronome/bpf/nic_AMDAA0099-0001_1x10_1x25.nffw
File: netronome/bpf/nic_AMDAA0099-0001_2x25.nffw
File: netronome/bpf/nic_AMDAA0096-0001_2x10.nffw
File: netronome/bpf/nic_AMDAA0097-0001_8x10.nffw
File: netronome/bpf/nic_AMDAA0058-0011_2x40.nffw
File: netronome/bpf/nic_AMDAA0058-0012_2x40.nffw
File: netronome/bpf/nic_AMDAA0078-0011_1x100.nffw

Version: v2.0.6.124

Licence: Redistributable. See LICENCE.Netronome for details

Driver: wil6210 - Qualcomm Atheros support for llad family of chips

File: wil6210.fw
File: wil6210.brd
Version: 5.2.0.18

Licence: Redistributable. See LICENSE.QualcommAtheros_ath10k for details

Driver: venus - Qualcomm Venus video codec accelerator

File: qcom/venus-1.8/venus.mdt
File: qcom/venus-1.8/venus.b00
File: qcom/venus-1.8/venus.b01
File: qcom/venus-1.8/venus.b02
File: qcom/venus-1.8/venus.b03
File: qcom/venus-1.8/venus.b04

Version: 1.8-00109

File: qcom/venus-4.2/venus.mdt
File: qcom/venus-4.2/venus.b00
File: qcom/venus-4.2/venus.b01
File: qcom/venus-4.2/venus.b02
File: qcom/venus-4.2/venus.b03
File: qcom/venus-4.2/venus.b04

Version: 4.2

File: qcom/venus-5.2/venus.mdt
File: qcom/venus-5.2/venus.b00
File: qcom/venus-5.2/venus.b01
File: qcom/venus-5.2/venus.b02
File: qcom/venus-5.2/venus.b03
File: qcom/venus-5.2/venus.b04
File: qcom/venus-5.2/venus.mbn

Version: 5.2-00023

File: qcom/venus-5.4/venus.mdt
File: qcom/venus-5.4/venus.b00
File: qcom/venus-5.4/venus.b01
File: qcom/venus-5.4/venus.b02
File: qcom/venus-5.4/venus.b03
File: qcom/venus-5.4/venus.b04
File: qcom/venus-5.4/venus.mbn

Version: 5.4-00038

File: qcom/vpu-1.0/venus.mdt
File: qcom/vpu-1.0/venus.b00
File: qcom/vpu-1.0/venus.b01
File: qcom/vpu-1.0/venus.b02
File: qcom/vpu-1.0/venus.b03
File: qcom/vpu-1.0/venus.b04
File: qcom/vpu-1.0/venus.b05
File: qcom/vpu-1.0/venus.b06
File: qcom/vpu-1.0/venus.b07
File: qcom/vpu-1.0/venus.b08
File: qcom/vpu-1.0/venus.b09

File: qcom/vpu-1.0/venus.b10
File: qcom/vpu-1.0/venus.b19
File: qcom/vpu-1.0/venus.mbn

Version: VIDEO.VPU.1.0-00087-PROD-1

File: qcom/vpu-2.0/venus.mdt
File: qcom/vpu-2.0/venus.b00
File: qcom/vpu-2.0/venus.b01
File: qcom/vpu-2.0/venus.b02
File: qcom/vpu-2.0/venus.b03
File: qcom/vpu-2.0/venus.b04
File: qcom/vpu-2.0/venus.b05
File: qcom/vpu-2.0/venus.b06
File: qcom/vpu-2.0/venus.b07
File: qcom/vpu-2.0/venus.b08
File: qcom/vpu-2.0/venus.b09
File: qcom/vpu-2.0/venus.b10
File: qcom/vpu-2.0/venus.b19
File: qcom/vpu-2.0/venus.mbn

Version: VIDEO.VPU.2.0-00038-PROD-1

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Binary files supplied originally from
<https://developer.qualcomm.com/hardware/dragonboard-410c/tools>

Driver: imx-sdma - support for i.MX SDMA driver

File: imx/sdma/sdma-imx6q.bin
Version: 3.3
File: imx/sdma/sdma-imx7d.bin
Version: 4.2

Licence: Redistributable. See LICENSE.sdma_firmware for details

Driver: adreno - Qualcomm Adreno GPU firmware

File: qcom/a300_pfp.fw
Link: a300_pfp.fw -> qcom/a300_pfp.fw
File: qcom/a300_pm4.fw
Link: a300_pm4.fw -> qcom/a300_pm4.fw
File: qcom/a530_pfp.fw
File: qcom/a530_pm4.fw
File: qcom/a530v3_gpmu.fw2
File: qcom/a530_zap.b00
File: qcom/a530_zap.b01
File: qcom/a530_zap.b02
File: qcom/a530_zap.mdt
File: qcom/a630_gmu.bin
File: qcom/a630_sqe.fw
File: qcom/sdm845/a630_zap.mbn
File: qcom/a650_gmu.bin
File: qcom/a650_sqe.fw
File: qcom/sm8250/a650_zap.mbn
File: qcom/a660_gmu.bin
File: qcom/a660_sqe.fw

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<https://developer.qualcomm.com/hardware/dragonboard-410c/tools>

Driver: qcom_q6v5_pas - Qualcomm remoteproc firmware

File: qcom/sdm845/adsp.mbn
File: qcom/sdm845/adspr.jsn
File: qcom/sdm845/adspua.jsn
File: qcom/sdm845/cdsp.mbn
File: qcom/sdm845/cdspr.jsn
File: qcom/sm8250/adsp.mbn
File: qcom/sm8250/adspr.jsn
File: qcom/sm8250/adspua.jsn
File: qcom/sm8250/cdsp.mbn
File: qcom/sm8250/cdspr.jsn

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Binary files supplied originally from
http://releases.linaro.org/96boards/dragonboard845c/qualcomm/firmware/RB3_firmware_20190529180356-v4.zip
http://releases.linaro.org/96boards/rb5/qualcomm/firmware/RB5_firmware_20210331-v4.zip

adsp.mbn has been converted from 20-adsp_split/firmware/adsp.* using
<https://github.com/andersson/pil-squasher>

cdsp.mbn has been converted from 21-cdsp_split/firmware/cdsp.* using
<https://github.com/andersson/pil-squasher>

Driver: qcom_q6v5_mss - Qualcomm modem subsystem firmware

File: qcom/sdm845/mba.mbn
File: qcom/sdm845/modem.mbn
File: qcom/sdm845/modemuw.jsn

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Binary files supplied originally from
http://releases.linaro.org/96boards/dragonboard845c/qualcomm/firmware/RB3_firmware_20190529180356-v4.zip

modem.mbn has been converted from 28-modem/modem.* using
<https://github.com/andersson/pil-squasher>

Driver: mlxsw_spectrum - Mellanox Spectrum switch

File: mellanox/mlxsw_spectrum-13.1420.122.mfa2
File: mellanox/mlxsw_spectrum-13.1530.152.mfa2
File: mellanox/mlxsw_spectrum-13.1620.192.mfa2
File: mellanox/mlxsw_spectrum-13.1702.6.mfa2
File: mellanox/mlxsw_spectrum-13.1703.4.mfa2
File: mellanox/mlxsw_spectrum-13.1910.622.mfa2
File: mellanox/mlxsw_spectrum-13.2000.1122.mfa2
File: mellanox/mlxsw_spectrum-13.2000.1886.mfa2
File: mellanox/mlxsw_spectrum-13.2000.2308.mfa2
File: mellanox/mlxsw_spectrum2-29.2000.2308.mfa2
File: mellanox/mlxsw_spectrum-13.2000.2714.mfa2
File: mellanox/mlxsw_spectrum2-29.2000.2714.mfa2
File: mellanox/mlxsw_spectrum-13.2007.1168.mfa2
File: mellanox/mlxsw_spectrum2-29.2007.1168.mfa2
File: mellanox/mlxsw_spectrum3-30.2007.1168.mfa2
File: mellanox/mlxsw_spectrum-13.2008.1036.mfa2
File: mellanox/mlxsw_spectrum2-29.2008.1036.mfa2
File: mellanox/mlxsw_spectrum3-30.2008.1036.mfa2

File: mellanox/mlxsw_spectrum-13.2008.1310.mfa2
File: mellanox/mlxsw_spectrum2-29.2008.1310.mfa2
File: mellanox/mlxsw_spectrum3-30.2008.1310.mfa2
File: mellanox/mlxsw_spectrum-13.2008.1312.mfa2
File: mellanox/mlxsw_spectrum2-29.2008.1312.mfa2
File: mellanox/mlxsw_spectrum3-30.2008.1312.mfa2
File: mellanox/mlxsw_spectrum-13.2008.2018.mfa2
File: mellanox/mlxsw_spectrum2-29.2008.2018.mfa2
File: mellanox/mlxsw_spectrum3-30.2008.2018.mfa2
File: mellanox/mlxsw_spectrum-13.2008.2304.mfa2
File: mellanox/mlxsw_spectrum2-29.2008.2304.mfa2
File: mellanox/mlxsw_spectrum3-30.2008.2304.mfa2
File: mellanox/mlxsw_spectrum-13.2008.2406.mfa2
File: mellanox/mlxsw_spectrum2-29.2008.2406.mfa2
File: mellanox/mlxsw_spectrum3-30.2008.2406.mfa2
File: mellanox/mlxsw_spectrum-13.2008.2438.mfa2
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File: mellanox/mlxsw_spectrum3-30.2008.2438.mfa2
File: mellanox/mlxsw_spectrum-13.2008.2946.mfa2
File: mellanox/mlxsw_spectrum2-29.2008.2946.mfa2
File: mellanox/mlxsw_spectrum3-30.2008.2946.mfa2
File: mellanox/mlxsw_spectrum-13.2008.3326.mfa2
File: mellanox/mlxsw_spectrum2-29.2008.3326.mfa2
File: mellanox/mlxsw_spectrum3-30.2008.3326.mfa2

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Driver: cdns-mhdp - Cadence MHP8546 DP bridge

File: cadence/mhdp8546.bin
Version: 2.1.0

Licence: Redistributable. See LICENCE.cadence for details

Driver: fsl-mc bus - NXP Management Complex Bus Driver

File: dpaa2/mc/mc_10.10.0_ls1088a.itb
File: dpaa2/mc/mc_10.10.0_ls2088a.itb
File: dpaa2/mc/mc_10.10.0_lx2160a.itb
File: dpaa2/mc/mc_10.14.3_ls1088a.itb
File: dpaa2/mc/mc_10.14.3_ls2088a.itb
File: dpaa2/mc/mc_10.14.3_lx2160a.itb
File: dpaa2/mc/mc_10.16.2_ls1088a.itb
File: dpaa2/mc/mc_10.16.2_ls2088a.itb
File: dpaa2/mc/mc_10.16.2_lx2160a.itb
File: dpaa2/mc/mc_10.18.0_ls1088a.itb
File: dpaa2/mc/mc_10.18.0_ls2088a.itb
File: dpaa2/mc/mc_10.18.0_lx2160a.itb

Licence: Redistributable. See LICENSE.nxp_mc_firmware for details

Driver: msc-phy - Microchip PHY drivers

File: microchip/mscc_vsc8574_revb_int8051_29e8.bin
File: microchip/mscc_vsc8584_revb_int8051_fb48.bin

Licence: Redistributable. See LICENCE.microchip for details

Driver: meson-vdec - Amlogic video decoder

File: meson/vdec/g12a_h264.bin
File: meson/vdec/g12a_hevc_mmu.bin
File: meson/vdec/g12a_vp9.bin
File: meson/vdec/gxbb_h264.bin
File: meson/vdec/gxl_h263.bin
File: meson/vdec/gxl_h264.bin
File: meson/vdec/gxl_hevc.bin
File: meson/vdec/gxl_hevc_mmu.bin
File: meson/vdec/gxl_mjpeg.bin
File: meson/vdec/gxl_mpeg12.bin
File: meson/vdec/gxl_mpeg4_5.bin
File: meson/vdec/gxl_vp9.bin
File: meson/vdec/gxm_h264.bin
File: meson/vdec/sml_hevc_mmu.bin
File: meson/vdec/sml_vp9_mmu.bin

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Driver: ice - Intel(R) Ethernet Connection E800 Series

File: intel/ice/ddp/ice-1.3.26.0.pkg
Link: intel/ice/ddp/ice.pkg -> ice-1.3.26.0.pkg

Licence: Redistributable. See LICENSE.ice for details

File: intel/ice/ddp-comms/ice_comms-1.3.20.0.pkg

Licence: Redistributable. See LICENSE.ice_enhanced for details

Driver: inside-secure -- Inside Secure EIP197 crypto driver

File: inside-secure/eip197_minifw/ipue.bin

File: inside-secure/eip197_minifw/ifpp.bin

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Driver: pretera - Marvell driver for Pretera family ASIC devices

File: mrvl/pretera/mvsw_pretera_fw-v2.0.img
File: mrvl/pretera/mvsw_pretera_fw-v3.0.img

Licence: Redistributable. See LICENCE.Marvell for details.

Driver: lt9611lucx - Lontium DSI to HDMI bridge

File: lt9611lucx_fw.bin

License: Redistributable. See LICENSE.Lontium for details.

Driver: wfx - Silicon Labs Wi-Fi Transceiver

File: silabs/wfm_wf200_C0.sec
Version: 3.12.1

Licence: Redistributable. See silabs/LICENSE.wf200 for details.
Originates from <https://github.com/SiliconLabs/wfx-firmware>

linux-jungheinrich	kernel-base kernel-devicetree kernel-image kernel-image-zimage kernel-module-adv-vpm-5.15.13-20231122-1 kernel-module-adv7180-5.15.13-20231122-1 kernel-module-binfmt-misc-5.15.13-20231122-1 kernel-module-bnep-5.15.13-20231122-1 kernel-module-brcmfmac-5.15.13-20231122-1 kernel-module-brcmutil-5.15.13-20231122-1 kernel-module-btmrvl-5.15.13-20231122-1 kernel-module-btmrvl-sdio-5.15.13-20231122-1 kernel-module-cdc-acm-5.15.13-20231122-1 kernel-module-cdc-eem-5.15.13-20231122-1 kernel-module-coda-vpu-5.15.13-20231122-1 kernel-module-crc-ccitt-5.15.13-20231122-1 kernel-module-crc-itu-t-5.15.13-20231122-1 kernel-module-crc7-5.15.13-20231122-1 kernel-module-cxd2880-spi-5.15.13-20231122-1 kernel-module-da9063-wdt-5.15.13-20231122-1 kernel-module-dmatest-5.15.13-20231122-1 kernel-module-dw-hdmi-ahb-audio-5.15.13-20231122-1 kernel-module-ehset-5.15.13-20231122-1 kernel-module-evbug-5.15.13-20231122-1 kernel-module-ftdi-sio-5.15.13-20231122-1 kernel-module-g-audio-5.15.13-20231122-1 kernel-module-g-ether-5.15.13-20231122-1 kernel-module-g-ffs-5.15.13-20231122-1 kernel-module-g-mass-storage-5.15.13-20231122-1 kernel-module-g-ncm-5.15.13-20231122-1 kernel-module-g-serial-5.15.13-20231122-1 kernel-module-g-zero-5.15.13-20231122-1 kernel-module-gadgetfs-5.15.13-20231122-1 kernel-module-gpio-siox-5.15.13-20231122-1 kernel-module-gspca-main-5.15.13-20231122-1 kernel-module-i2c-algo-pca-5.15.13-20231122-1 kernel-module-i2c-algo-pcf-5.15.13-20231122-1 kernel-module-imx-vdoa-5.15.13-20231122-1 kernel-module-ip-tables-5.15.13-20231122-1 kernel-module-iptables-filter-5.15.13-20231122-1 kernel-module-msdos-5.15.13-20231122-1 kernel-module-mwifiex-5.15.13-20231122-1 kernel-module-mwifiex-sdio-5.15.13-20231122-1 kernel-module-nf-contrack-5.15.13-20231122-1 kernel-module-nf-defrag-ipv4-5.15.13-20231122-1 kernel-module-nf-defrag-ipv6-5.15.13-20231122-1 kernel-module-option-5.15.13-20231122-1	5.15.13
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	kernel-module-ov2680-5.15.13-20231122-1 kernel-module-ov5640-5.15.13-20231122-1 kernel-module-ov5645-5.15.13-20231122-1 kernel-module-pegasus-5.15.13-20231122-1 kernel-module-psmouse-5.15.13-20231122-1 kernel-module-rn5t618-power-5.15.13-20231122-1 kernel-module-rtl8150-5.15.13-20231122-1 kernel-module-serport-5.15.13-20231122-1 kernel-module-siox-bus-gpio-5.15.13-20231122-1 kernel-module-siox-core-5.15.13-20231122-1 kernel-module-snd-hwdep-5.15.13-20231122-1 kernel-module-snd-usb-audio-5.15.13-20231122-1 kernel-module-snd-usbmidi-lib-5.15.13-20231122-1 kernel-module-usb-wwan-5.15.13-20231122-1 kernel-module-usbserial-5.15.13-20231122-1 kernel-module-usbtest-5.15.13-20231122-1 kernel-module-uvcvideo-5.15.13-20231122-1 kernel-module-v4l2-jpeg-5.15.13-20231122-1 kernel-module-wl12xx-5.15.13-20231122-1 kernel-module-wl18xx-5.15.13-20231122-1 kernel-module-wlcore-5.15.13-20231122-1 kernel-module-wlcore-sdio-5.15.13-20231122-1 kernel-module-x-tables-5.15.13-20231122-1 kernel-module-xt-contrack-5.15.13-20231122-1 kernel-module-xt-tcpudp-5.15.13-20231122-1 kernel-modules	
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Licenses: GPLv2

log4cxx	log4cxx	git-03c581216a
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Licenses: Apache-2.0

URL: <http://logging.apache.org/log4cxx/>

logrotate	logrotate	3.18.0
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Licenses: GPLv2

URL: <https://github.com/logrotate/logrotate/>

lsf	lsf	4.91
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Licenses: BSD

URL: <http://people.freebsd.org/~abe/>

lz4	lz4	1.9.3
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Licenses: BSD | BSD-2-Clause | GPL-2.0

URL: <https://github.com/lz4/lz4>

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memtool	memtool	2018.03.0
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Licenses: GPLv2

URL: <https://github.com/pengutronix/memtool>

mesa	libegl-mesa libgbm libglapi libgles2-mesa mesa-megadriver	21.0.3
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Licenses: MIT

URL: <http://mesa3d.org>

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message-filters	message-filters	1.15.11-1
Licenses: BSD URL: http://ros.org/wiki/message_filters		
message-generation	message-generation	0.4.1-1
Licenses: BSD URL: http://ros.org/wiki/message_generation		
message-runtime	message-runtime	0.4.13-1
Licenses: BSD URL: http://ros.org/wiki/message_runtime		
mtd-utils	mtd-utils	2.1.2
Licenses: GPLv2+ URL: http://www.linux-mtd.infradead.org/ Copyright information: Copyright (C) 19yy <name of author> Copyright (C) 19yy name of author		
mtdev	mtdev	1.1.6
Licenses: MIT URL: http://bitmath.org/code/mtdev/ Copyright information: Copyright (C) 2010 Henrik Rydberg <rydberg@euromail.se> Copyright (C) 2010 Canonical Ltd.		
nano	nano	5.6
Licenses: GPLv3 URL: http://www.nano-editor.org/		
nav-msgs	nav-msgs	1.13.1-1
Licenses: BSD URL: http://wiki.ros.org/nav_msgs		
ncurses	ncurses ncurses-libncurses ncurses-libncursesw ncurses-libpanelw ncurses-libtinfo ncurses-terminfo-base	6.2
Licenses: MIT URL: http://www.gnu.org/software/ncurses/ncurses.html		
net-tools	net-tools net-tools-mii-tool	2.10
Licenses: GPLv2+ URL: http://net-tools.berlios.de/		
netbase	netbase	6.2
Licenses: GPLv2 URL: http://packages.debian.org/netbase		
nettle	nettle	3.7.3
Licenses: LGPLv3+ GPLv2+ URL: http://www.lysator.liu.se/~nisse/nettle/		

nodejs	nodejs	12.21.0
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nodelet	nodelet	1.10.1-1
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URL: <http://ros.org/wiki/nodelet>

nodelet-topic-tools	nodelet-topic-tools	1.10.1-1
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URL: http://ros.org/wiki/nodelet_topic_tools

npth	npth	1.6
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Licenses: LGPLv2+

URL: <https://www.gnu.org/software/pth/>

nspr	nspr	4.29
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Licenses: GPL-2.0 | MPL-2.0 | LGPL-2.1

URL: <http://www.mozilla.org/projects/nspr/>

nss	nss	3.64
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Licenses: (MPL-2.0 & MIT) | (MPL-2.0 & GPL-2.0+ & MIT) | (MPL-2.0 & LGPL-2.1+ & MIT)

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<p>opencv</p>	<p>libopencv-alphamat libopencv-aruco libopencv-bgsegm libopencv-bioinspired libopencv-calib3d libopencv-ccalib libopencv-core libopencv-datasets libopencv-dnn libopencv-dnn-objdetect libopencv-dnn-superres libopencv-dpm libopencv-face libopencv-features2d libopencv-flann libopencv-fuzzy libopencv-gapi libopencv-hfs libopencv-highgui libopencv-img-hash libopencv-imgcodecs libopencv-imgproc libopencv-intensity-transform libopencv-line-descriptor libopencv-mcc libopencv-ml libopencv-objdetect libopencv-optflow libopencv-phase-unwrapping libopencv-photo libopencv-plot libopencv-quality libopencv-rapid libopencv-reg libopencv-rgbd libopencv-saliency libopencv-sfm libopencv-shape libopencv-stereo libopencv-stitching libopencv-structured-light libopencv-superres libopencv-surface-matching libopencv-tracking libopencv-video libopencv-videoio libopencv-videostab libopencv-wechat-qr-code libopencv-xfeatures2d libopencv-ximgproc libopencv-xobjdetect libopencv-xphoto opencv opencv-apps opencv-samples python3-opencv</p>	<p>4.5.2</p>
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Licenses: Apache-2.0

URL: <http://opencv.org/>

<p>openssh</p>	<p>openssh openssh-keygen openssh-scp</p>	<p>8.5p1</p>
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	openssh-ssh openssh-sshd	
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URL: <http://www.openssh.com/>

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openssl	libcrypto libssl openssl openssl-bin openssl-conf	1.1.1
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Licenses: openssl

URL: <http://www.openssl.org/>

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opkg-utils	update-alternatives-opkg	0.4.3
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URL: <http://git.yoctoproject.org/cgi/cgit.cgi/opkg-utils>

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orc	liborc-0.4	0.4.32
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os-release	os-release	1.0
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packagegroup-base	packagegroup-base packagegroup-base-alsa packagegroup-base-ext2 packagegroup-base-extended packagegroup-base-nfs packagegroup-base-usb gadget packagegroup-base-usbhost packagegroup-base-wifi packagegroup-distro-base packagegroup-machine-base	1.0
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Licenses: MIT

packagegroup-core-boot	packagegroup-core-boot	1.0
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packagegroup-core-ssh-openssl	packagegroup-core-ssh-openssl	1.0
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packagegroup-core-tools-debug	packagegroup-core-tools-debug	1.0
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pango	pango	1.48.2
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Licenses: LGPLv2.0+

URL: <http://www.pango.org/>

patch	patch	2.7.6
Licenses: GPLv3 URL: http://savannah.gnu.org/projects/patch/		
pciutils	libpci pciutils pciutils-ids	3.7.0
Licenses: GPLv2+ URL: http://atrey.karlin.mff.cuni.cz/~mj/pciutils.shtml		
pcl	pcl	1.8.1
Licenses: BSD Copyright information: Copyright (c) 2009-2012, Willow Garage, Inc. Copyright (c) 2012-, Open Perception, Inc.		
pcl-conversions	pcl-conversions	1.7.2-1
Licenses: BSD URL: http://wiki.ros.org/pcl_conversions		
pcl-msgs	pcl-msgs	0.3.0-1
Licenses: BSD URL: http://wiki.ros.org/pcl_msgs		
pcl-ros	pcl-ros	1.7.2-1
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perl	perl perl-module-config-heavy	5.32.1
Licenses: Artistic-1.0 GPL-1.0+ URL: http://www.perl.org/ Copyright information: Copyright (C) 19yy <name of author> Copyright (C) 19xx name of author		
pinentry	pinentry	1.1.1
Licenses: GPLv2 URL: http://www.gnupg.org/related_software/pinentry/index.en.html		
pipewire	gstreamer1.0-pipewire libpipewire pipewire pipewire-media-session pipewire-modules-access pipewire-modules-adapter pipewire-modules-client-device pipewire-modules-client-node pipewire-modules-echo-cancel pipewire-modules-filter-chain pipewire-modules-link-factory pipewire-modules-loopback pipewire-modules-meta pipewire-modules-metadata pipewire-modules-portal pipewire-modules-profiler	0.3.30

	pipewire-modules-protocol-native pipewire-modules-protocol-pulse pipewire-modules-protocol-simple pipewire-modules-rt pipewire-modules-rtkit pipewire-modules-session-manager pipewire-modules-spa-device pipewire-modules-spa-device-factory pipewire-modules-spa-node pipewire-modules-spa-node-factory pipewire-spa-plugins-alsa pipewire-spa-plugins-audioconvert pipewire-spa-plugins-audiomixer pipewire-spa-plugins-audiotestsrc pipewire-spa-plugins-control pipewire-spa-plugins-dbus pipewire-spa-plugins-journal pipewire-spa-plugins-meta pipewire-spa-plugins-support pipewire-spa-plugins-videoconvert pipewire-spa-plugins-videotestsrc pipewire-spa-plugins-volume pipewire-tools	
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pkgconfig	pkgconfig	0.29.2
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URL: <http://pkg-config.freedesktop.org/wiki/>

platsch	platsch	0.1
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Licenses: BSD-0-Clause

pluginlib	pluginlib	1.13.0-1
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Licenses: BSD

URL: <http://www.ros.org/wiki/pluginlib>

poco	poco poco-crypto poco-data poco-datasqlite poco-encodings poco-foundation poco-json poco-jwt poco-mongodb poco-net poco-netssl poco-pdf poco-redis poco-util poco-xml poco-zip	1.10.1
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 URL: <http://pocoproject.org/>

popt	popt	1.18
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procps	procps procps-lib procps-ps procps-sysctl	3.3.17
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 URL: <https://gitlab.com/procps-ng/procps>

protobuf	protobuf	3.15.2
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Licenses: BSD-3-Clause
 URL: <https://github.com/google/protobuf>

psmisc	fuser killall psmisc pstree	23.4
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 URL: <http://psmisc.sf.net/>
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ptx-profile	ptx-profile	1.0
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pulseaudio	libpulse libpulsecommon	14.2
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python3	libpython3 python3-2to3 python3-asyncio python3-audio python3-codecs python3-compile python3-compression python3-core python3-crypt python3-ctypes python3-curses python3-datetime python3-db python3-debugger python3-difflib python3-distutils python3-doctest python3-email python3-fcntl	3.9.5
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	python3-html python3-idle python3-image python3-io python3-json python3-logging python3-mailbox python3-math python3-mime python3-misc python3-mmap python3-modules python3-multiprocessing python3-netclient python3-netserver python3-numbers python3-pickle python3-pkgutil python3-plistlib python3-pprint python3-profile python3-pydoc python3-resource python3-shell python3-smtpd python3-sqlite3 python3-stringold python3-syslog python3-terminal python3-threading python3-tkinter python3-unittest python3-unixadmin python3-venv python3-xml python3-xmlrpc	
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python3-catkin-pkg	python3-catkin-pkg	0.4.23
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Licenses: BSD

python3-dateutil	python3-dateutil	2.8.1
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python3-defusedxml	python3-defusedxml	0.5.0
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Licenses: Python-2.0

python3-distro	python3-distro	1.5.0
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python3-docutils	python3-docutils	0.17
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python3-ecdsa	python3-ecdsa	0.13
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URL: <https://github.com/warner/python-ecdsa>

python3-empy	python3-empy	3.3.2
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python3-gnupg	python3-gnupg	0.4.1
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python3-iniparse	python3-iniparse	0.4
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python3-netifaces	python3-netifaces	0.10.5
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python3-numpy	python3-numpy	1.20.1
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python3-paramiko	python3-paramiko	1.16.0
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URL: <https://github.com/paramiko/paramiko/>

python3-pbr	python3-pbr	5.4.4
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Licenses: Apache-2.0

URL: <https://pypi.org/project/pbr>

python3-pip	python3-pip	20.0.2
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URL: <https://pypi.org/project/pip>

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python3-pycrypto	python3-pycrypto	2.6.1
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python3-pyparsing	python3-pyparsing	2.4.7
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python3-pyyaml	python3-pyyaml	5.4.1
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python3-rosdep	python3-rosdep	0.20.0
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python3-roscdistro	python3-roscdistro	0.8.3
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python3-rospkg	python3-rospkg	1.3.0
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python3-six	python3-six	1.15.0
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qhull	qhull	2015.2
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qtbase	qtbase qtbase-plugins qtbase-qmlplugins	5.15.2
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qtgraphicaleffects	qtgraphicaleffects qtgraphicaleffects-plugins qtgraphicaleffects-qmlplugins	5.15.2
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qtimageformats	qtimageformats-plugins	5.15.2
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qtquickcontrols2	qtquickcontrols2 qtquickcontrols2-plugins qtquickcontrols2-qmlplugins	5.15.2
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qtsvg	qtsvg qtsvg-plugins qtsvg-qmlplugins	5.15.2
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qttools	qttools qttools-plugins qttools-qmlplugins	5.15.2
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qtwayland	qtwayland qtwayland-plugins qtwayland-qmlplugins	5.15.2
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qtwebchannel	qtwebchannel qtwebchannel-plugins qtwebchannel-qmlplugins	5.15.2
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qtwebengine	qtwebengine qtwebengine-plugins qtwebengine-qmlplugins	5.15.2
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qtwebview	qtwebview qtwebview-plugins qtwebview-qmlplugins	5.15.2
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readline	readline	8.1
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URL: <https://tiswww.case.edu/php/chet/readline/rltop.html>

ros-environment	ros-environment	1.3.2-1
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rosmaster	rosmaster	1.15.11-1
Licenses: BSD URL: http://wiki.ros.org/rosmaster		
rosmmsg	rosmmsg	1.15.11-1
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rpm	python3-rpm rpm rpm-build rpm-sign	4.16.1-3
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rsync	rsync	3.2.3
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URL: <http://rsync.samba.org/>

run-postinsts	run-postinsts	1.0
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sensor-msgs	sensor-msgs	1.13.1-1
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Licenses: BSD

URL: http://ros.org/wiki/sensor_msgs

shadow	shadow shadow-base	4.8.1
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URL: <http://github.com/shadow-maint/shadow>

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shadow-securetty	shadow-securetty	4.6
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shared-mime-info	shared-mime-info shared-mime-info-locale-en-gb	2.1
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Licenses: GPLv2

URL: <http://freedesktop.org/wiki/Software/shared-mime-info>

sick-scan	sick-scan	1.10.1-1-reconnect
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URL: http://wiki.ros.org/sick_scan

smclib	smclib	1.8.6-1
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Licenses: MPL-1.1

URL: <http://smc.sourceforge.net/>

smcroute	smcroute	2.4.4
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Licenses: GPLv2+

URL: <http://troglobit.github.io/smcroute.html>

sqlite3	libsqlite3	3.35.0
Licenses: PD URL: http://www.sqlite.org		
std-msgs	std-msgs	0.5.13-1
Licenses: BSD URL: http://www.ros.org/wiki/std_msgs		
std-srvs	std-srvs	1.11.3-1
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strace	strace	5.11
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Licenses: GPLv2 URL: https://kernel.ubuntu.com/~cking/stress-ng/		
sysstat	sysstat	12.4.3
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systemd	libnss-myhostname libsystemd libudev systemd systemd-analyze systemd-extra-utils systemd-udev-rules udev udev-hwdb	247.6
Licenses: GPLv2 & LGPLv2.1 URL: http://www.freedesktop.org/wiki/Software/systemd		
systemd-compat-units	systemd-compat-units	1.0
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systemd-conf	systemd-conf	247.6
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Licenses: LGPLv2.1 MPL-1.1 URL: http://taglib.github.io/		
tbb	tbb	2021.2.0
Licenses: Apache-2.0 URL: https://software.intel.com/en-us/tbb		
tcp-wrappers	libwrap tcp-wrappers	7.6
Licenses: BSD-1-Clause URL: http://www.softpanorama.org/Net/Network_security/TCP_wrappers/		
tcpdump	tcpdump	4.99.0
Licenses: BSD-3-Clause URL: http://www.tcpdump.org/		
tf	tf	1.13.2-1
Licenses: BSD URL: http://www.ros.org/wiki/tf		
tf2	tf2	0.7.5-1
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tf2-eigen	tf2-eigen	0.7.5-1
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tf2-msgs	tf2-msgs	0.7.5-1
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tf2-py	tf2-py	0.7.5-1
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tf2-ros	tf2-ros	0.7.5-1
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Licenses: GPLv3 URL: http://www.gnu.org/software/time/		

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<p>Licenses: BSD URL: http://ros.org/wiki/topic_tools</p>		
trace-cmd	trace-cmd	2.9.5
<p>Licenses: GPLv2 & LGPLv2.1</p>		
tree	tree	1.8.0
<p>Licenses: GPLv2 URL: http://mama.indstate.edu/users/ice/tree/</p>		
tzdata	tzdata tzdata-africa tzdata-america tzdata-antarctica tzdata-arctic tzdata-asia tzdata-atlantic tzdata-australia tzdata-core tzdata-europe tzdata-misc tzdata-pacific tzdata-posix tzdata-right	2021d
<p>Licenses: PD & BSD & BSD-3-Clause URL: http://www.iana.org/time-zones</p>		
udev-extraconf	udev-extraconf	1.1
<p>Licenses: MIT URL: https://wiki.gentoo.org/wiki/Eudev</p>		
update-rc.d	update-rc.d	0.8
<p>Licenses: GPLv2+ URL: http://github.com/philb/update-rc.d/</p>		
usbutils	usbutils	013
<p>Licenses: GPLv2+ & (GPLv2 GPLv3) URL: http://www.linux-usb.org</p>		
util-linux	util-linux util-linux-addpart util-linux-agetty util-linux-blkdiscard util-linux-blkid util-linux-blkzone util-linux-blockdev util-linux-cal util-linux-cfdisk util-linux-chcpu util-linux-chmem util-linux-choom util-linux-chrt util-linux-col util-linux-colcrt util-linux-colrm util-linux-column util-linux-ctrlaltdel util-linux-delpart util-linux-dmesg	2.36.2

util-linux-eject
util-linux-fallocate
util-linux-fdformat
util-linux-fdisk
util-linux-fincore
util-linux-findfs
util-linux-findmnt
util-linux-flock
util-linux-fsck
util-linux-fsck.cramfs
util-linux-fsfreeze
util-linux-fstrim
util-linux-getopt
util-linux-hardlink
util-linux-hexdump
util-linux-hwclock
util-linux-ionice
util-linux-ipcmk
util-linux-ipcrm
util-linux-ipc
util-linux-irqtop
util-linux-isosize
util-linux-kill
util-linux-last
util-linux-lsattach
util-linux-libblkid
util-linux-libfdisk
util-linux-libmount
util-linux-libsmartcols
util-linux-logger
util-linux-look
util-linux-losetup
util-linux-lsblk
util-linux-lscpu
util-linux-lsipc
util-linux-lsirq
util-linux-lslocks
util-linux-lslogins
util-linux-lsmem
util-linux-lsns
util-linux-mcookie
util-linux-mesg
util-linux-mkfs
util-linux-mkfs.cramfs
util-linux-mkswap
util-linux-more
util-linux-mount
util-linux-mountpoint
util-linux-namei
util-linux-nologin
util-linux-nsenter
util-linux-partx
util-linux-pivot-root
util-linux-prlimit
util-linux-readprofile
util-linux-rename
util-linux-renice
util-linux-resizepart
util-linux-rev
util-linux-rfkill
util-linux-rtcwake
util-linux-script
util-linux-scriptlive
util-linux-scriptreplay
util-linux-setarch
util-linux-setpriv

	util-linux-setsid util-linux-setterm util-linux-sfdisk util-linux-sulogin util-linux-swapon util-linux-swapon util-linux-switch-root util-linux-taskset util-linux-ul util-linux-umount util-linux-unshare util-linux-utmpdump util-linux-uuid util-linux-uuidgen util-linux-uuidparse util-linux-wall util-linux-wdctl util-linux-whereis util-linux-wipefs util-linux-write util-linux-zramctl	
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visualization-msgs	visualization-msgs	1.13.1-1
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vlan	vlan	1.9
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volatile-binds	volatile-binds	1.0
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wayland	wayland	1.19.0
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weston	libweston-9 weston	9.0.0
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weston-ivi-fs-controller	weston-ivi-fs-controller	0.0.1
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wpa-supPLICant	wpa-supPLICant wpa-supPLICant-cli wpa-supPLICant-passphrase	2.9
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xkeyboard-config	xkeyboard-config xkeyboard-config-locale-en-gb	2.32
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xmlrpcpp	xmlrpcpp	1.15.11-1
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xz	liblzma	5.2.5
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nodejs-module	@angular/cdk	11.2.13
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URL: https://www.npmjs.com/package/@angular/compiler/v/11.2.14		
nodejs-module	@angular/compiler	9.0.0
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URL: https://www.npmjs.com/package/@angular/compiler/v/9.0.0		
nodejs-module	@angular/compiler-cli	11.2.14
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URL: https://www.npmjs.com/package/@angular/compiler-cli/v/11.2.14		
nodejs-module	@angular/core	11.2.14
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URL: https://www.npmjs.com/package/@angular/core/v/11.2.14		
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nodejs-module	@angular/forms	11.2.14
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URL: https://www.npmjs.com/package/@angular/forms/v/11.2.14		
nodejs-module	@angular/language-service	11.2.14
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nodejs-module	@angular/router	11.2.14
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nodejs-module	@webassemblyjs/helper-wasm-bytecode	1.9.0
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nodejs-module	jasmine-spec-reporter	7.0.0
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nodejs-module	jasmine-ts	0.3.3
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```
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```

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```
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```

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```
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at assemblers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
```

Ty Coon, President of Vice

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Version 3.1, 31 March 2009

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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- You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful. (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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bzip2-1.0.4

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bzip2/libbzip2 version 1.0.4 of 20 December 2006

bzip2-1.0.6

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For clarity, unless Licensed Software specifies different license terms for the respective Pre-Release Code, the Licensee is entitled to use such pre-release code pursuant to Section 3, just like other Licensed Software, provided however that in the event Add-on Products are included and available as such Pre-Release Code, Licensee's right to use such Add-on Products is nevertheless subject to and conditional upon conclusion of separate agreement with The Qt Company.

6. LIMITED WARRANTY AND WARRANTY DISCLAIMER

The Qt Company hereby represents and warrants that it has the power and authority to grant the rights and licenses granted to Licensee under this Agreement.

Except as set forth above, the Licensed Software is licensed to Licensee "as is" and Licensee's exclusive remedy and The Qt Company's entire liability for errors in the Licensed Software shall be limited, at the Qt Company's option, to correction of the error, replacement of the Licensed Software or return of the applicable fees paid for the defective Licensed Software for the time period during which the License is not able to utilize the Licensed Software under the terms of this Agreement.

TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, THE QT COMPANY ON BEHALF OF ITSELF AND ITS LICENSORS, SUPPLIERS AND AFFILIATES, DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT WITH REGARD TO THE LICENSED SOFTWARE. THE QT COMPANY DOES NOT WARRANT THAT THE LICENSED SOFTWARE WILL SATISFY LICENSEE'S REQUIREMENTS OR THAT IT WILL OPERATE WITHOUT DEFECT OR ERROR OR THAT THE OPERATION THEREOF WILL BE UNINTERRUPTED.

7. INDEMNIFICATION AND LIMITATION OF LIABILITY

7.1 Limitation of Liability
EXCEPT FOR (I) CASES OF GROSS NEGLIGENCE OR INTENTIONAL MISCONDUCT, AND (II) BREACH OF CONFIDENTIALITY, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, IN NO EVENT SHALL EITHER PARTY BE LIABLE TO THE OTHER PARTY FOR ANY LOSS OF PROFIT, LOSS OF DATA, LOSS OF BUSINESS OR GOODWILL OR ANY OTHER INDIRECT, SPECIAL, CONSEQUENTIAL, INCIDENTAL OR PUNITIVE COST, DAMAGES OR EXPENSE OF ANY KIND, HOWSOEVER ARISING UNDER OR IN CONNECTION WITH THIS AGREEMENT.

EXCEPT FOR (I) CASES OF GROSS NEGLIGENCE OR INTENTIONAL MISCONDUCT, AND (II) BREACH OF CONFIDENTIALITY, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, IN NO EVENT SHALL EITHER PARTY'S TOTAL AGGREGATE LIABILITY UNDER THIS AGREEMENT EXCEED THE AGGREGATE LICENSE FEES PAID OR PAYABLE TO THE QT COMPANY FROM LICENSEE DURING THE PERIOD OF TWELVE (12) MONTHS IMMEDIATELY PRECEDING THE EVENT RESULTING IN SUCH LIABILITY.

THE PROVISIONS OF THIS SECTION 7 ALLOCATE THE RISKS UNDER THIS AGREEMENT BETWEEN THE QT COMPANY AND LICENSEE AND THE PARTIES HAVE RELIED UPON THE LIMITATIONS SET FORTH HEREIN IN DETERMINING WHETHER TO ENTER INTO THIS AGREEMENT.

NOTWITHSTANDING ANYTHING TO THE CONTRARY IN THIS AGREEMENT, LICENSEE SHALL ALWAYS BE LIABLE TO PAY THE APPLICABLE LICENSE FEES CORRESPONDING TO ITS ACTUAL USE OF LICENSED SOFTWARE.

8. SUPPORT, UPDATES AND ONLINE SERVICES

Upon due payment of the agreed License Fees the Licensee will be eligible to receive Support and Updates and to use the Online Services during the License Term, provided, however, that in the event the License Term is longer than 36 months, the initial payment includes Support for only the first 12 months, unless the Parties specifically otherwise agree.

Unless otherwise decided by The Company at its free and absolute discretion, Upgrades will not be included in the Support but may be available subject to additional fees.

From time to time The Qt Company may change the Support terms, provided that during the respective ongoing License Term the level of Support provided by The Qt Company may not be reduced without the consent of the Licensee.

Unless otherwise agreed, The Qt Company shall not be responsible for providing any service or support to Customers.

9. CONFIDENTIALITY

Each Party acknowledges that during the Term of this Agreement each Party may receive information about the other Party's business, business methods, business plans, customers, business relations, technology, and other information, including the terms of this Agreement, that is confidential and of great value to the other Party, and the value of which would be significantly reduced if disclosed to third parties ("Confidential Information"). Accordingly, when a Party (the "Receiving Party") receives Confidential Information from the other Party (the "Disclosing Party"), the Receiving Party shall only disclose such information to employees and Contractors on a need to know basis, and shall cause its employees and employees of its Affiliates to: (i) maintain any and all Confidential Information in confidence; (ii) not disclose the Confidential Information to a third party without the Disclosing Party's prior written approval; and (iii) not, directly or indirectly, use the Confidential Information for any purpose other than for exercising its rights and fulfilling its responsibilities pursuant to this Agreement. Each Party shall take reasonable measures to protect the Confidential Information of the other Party, which measures shall not be less than the measures taken by such Party to protect its own confidential and proprietary information.

Obligation of confidentiality shall not apply to information that (i) is or becomes generally known to the public through no act or omission of the Receiving Party; (ii) was in the Receiving Party's lawful possession prior to the disclosure hereunder and was not subject to limitations on disclosure or use; (iii) is developed independently by employees or Contractors of the Receiving Party or other persons working for the Receiving Party who have not had access to the Confidential Information of the Disclosing Party, as proven by the written records of the Receiving Party; (iv) is lawfully disclosed to the Receiving Party without restriction by a third party not under an obligation of confidentiality; or (v) the Receiving Party is legally compelled to disclose, in which case the Receiving Party shall notify the Disclosing Party of such compelled disclosure and assert the privileged and confidential nature of the information and cooperate fully with the Disclosing Party to limit the scope of disclosure and the dissemination of disclosed Confidential Information to the minimum extent necessary.

The obligations under this Section 9 shall continue to remain in force for a period of five (5) years after the last disclosure, and, with respect to trade secrets, for so long as such trade secrets are protected under applicable trade secret laws.

10. FEES, DELIVERY AND PAYMENT

10.1. License Fees

License Fees are described in The Qt Company's standard price list, quote or Purchase Order confirmation or in an appendix hereto, as the case may be.

The License Fees shall not be refunded or claimed as a credit in any event or for any reason whatsoever.

10.2. Ordering Licenses

Licensee may purchase Development Licenses and Distribution Licenses pursuant to agreed pricing terms or, if no specific pricing terms have been agreed upon, at The Qt Company's standard pricing terms applicable at the time of purchase. Unless specifically otherwise provided, any pricing terms referenced in this Agreement shall be valid for twelve (12) months from the date of this Agreement.

Licensee shall submit all purchase orders for Development Licenses and Distribution Licenses to The Qt Company by email or any other method acceptable to The Qt Company (each such order is referred to herein as a "Purchase Order") for confirmation, whereupon the Purchase Order shall become binding between the Parties.

10.3. Distribution License Packs

Unless otherwise agreed, Distribution Licenses shall be purchased by way of Distribution License Packs.

Upon due payment of the ordered Distribution License Pack(s), the Licensee will have an account of Distribution Licenses available for distributing the Redistributables in accordance with this Agreement.

Each time Licensee distributes a copy of Redistributables, then one Distribution License is used, and Licensee's account of available Distribution Licenses is decreased accordingly. Licensee may distribute copies of the Redistributables so long as Licensee has Distribution Licenses remaining on its account.

10.4. Payment Terms

License Fees and any other charges under this Agreement shall be paid by Licensee no later than thirty (30) days from the date of the applicable invoice from The Qt Company.

The Qt Company will submit an invoice to Licensee after the date of this Agreement and/or after The Qt Company receives a Purchase Order from Licensee.

A late payment charge of the lower of (a) one percent per month; or (b) the interest rate stipulated by applicable law, shall be charged on any unpaid balances that remain past due.

10.5. Taxes

All License Fees and other charges payable hereunder are gross amounts but exclusive of any value added tax, use tax, sales tax, withholding tax and other taxes, duties or tariffs ("Taxes") levied directly for the sale, delivery or use of Licensed Software hereunder pursuant to any applicable law. Such applicable Taxes shall be paid by Licensee to The Qt Company, or, where applicable, in lieu of payment of such Taxes to The Qt Company, Licensee shall provide an exemption certificate to The Qt Company and any applicable authority.

11. RECORD-KEEPING AND REPORTING OBLIGATIONS; AUDIT RIGHTS

11.1. Licensee's Record-keeping

Licensee shall at all times during the Term of this Agreement and for a period of seven (7) years thereafter maintain Licensee's Records in an accurate and up-to-date form. Licensee's Records shall be adequate to reasonably enable The Qt Company to determine Licensee's compliance with the provisions of this Agreement. The records shall conform to general good accounting practices.

Licensee shall, within thirty (30) days from receiving The Qt Company's request to that effect, deliver to The Qt Company a report based on Licensee's Records, such report to contain information, in sufficient detail, on (i) number and identity of users working with Licensed Software or Open Source Qt, (ii) copies of Redistributables distributed by Licensee during the most recent calendar quarter and/or any other term specified by The Qt Company, (iii) number of undistributed copies of Redistributables and corresponding number of unused Distribution Licenses remaining on Licensee's account, and (iv) any other information as The Qt Company may reasonably require from time to time.

11.2. The Qt Company's Audit Rights

The Qt Company or an independent auditor acting on behalf of The Qt Company's, may, upon at least five (5) business days' prior written notice and at its expense, audit Licensee with respect to the Licensee's use of the Licensed Software, but not more frequently than once during each 6-month period. Such audit may be conducted by mail, electronic means or through an in-person visit to Licensee's place of business. Any such in-person audit shall be conducted during regular business hours at Licensee's facilities and shall not unreasonably interfere with Licensee's business activities. The Qt Company or the independent auditor acting on behalf of The Qt Company shall be entitled to inspect Licensee's Records and conduct necessary interviews of Licensee's relevant employees and Contractors. All such Licensee's Records and use thereof shall be subject to an obligation of confidentiality under this Agreement.

If an audit reveals that Licensee is using the Licensed Software beyond scope of the licenses Licensee has paid for, Licensee agrees to pay The Qt Company any amounts owed for such unauthorized use within 30 days from receipt of the corresponding invoice from The Qt Company. In addition, in the event the audit reveals a material violation of the terms of this Agreement (without limitation, either (i) underpayment of more than 10% of License Fees or 10,000 euros (whichever is more) or (ii) distribution of products, which include or result from Prohibited Combination, shall be deemed a material violation for purposes of this section), then the Licensee shall pay The Qt Company's reasonable cost of conducting such audit.

12. TERM AND TERMINATION

12.1. Agreement Term

This Agreement shall enter into force upon due acceptance by both Parties and remain in force for as long as there is any Development License(s) purchased under this Agreement in force ("Term"), unless and until terminated pursuant to the terms of this Section 12.

12.2. Termination and suspension of rights

Either Party shall have the right to terminate this Agreement upon thirty (30) days prior written notice if the other Party commits a material breach of any obligation of this Agreement and fails to remedy such breach within such notice period.

Instead of termination, The Qt Company shall have the right to suspend or withhold grants of all rights to the Licensed Software hereunder, including but not limited to the Development Licenses, Distribution License, and Support, should Licensee fail to make payment in timely fashion or otherwise violates or is reasonably suspected to violate its obligations or terms of this Agreement, and where such violation or breach is not cured within five (5) business days following The Qt Company's written notice thereof.

12.3. Mutual Right to Terminate

Either Party shall have the right to terminate this Agreement immediately upon written notice in the event that the other Party becomes insolvent, files for any form of bankruptcy, makes any assignment for the benefit of creditors, has a receiver, administrative receiver or officer appointed over the whole or a substantial part of its assets, ceases to conduct business, or an act equivalent to any of the above occurs under the laws of the jurisdiction of the

other Party.

12.4. Parties' Rights and Duties upon Termination

Upon expiry or termination of the Agreement, Licensee shall cease and shall cause all Designated Users (including those of its Affiliates' and Contractors') to cease using the Licensed Software and distribution of the Redistributables under this Agreement.

Notwithstanding the above, in the event the Agreement expires or is terminated:

- (i) as a result of The Qt Company choosing not to renew the Development License(s) as set forth in Section 3.1, then all valid licenses possessed by the Licensee at such date shall be extended to be valid in perpetuity under the terms of this Agreement and Licensee is entitled to purchase additional licenses as set forth in Section 10.2; or
- (ii) for reason other than by The Qt Company pursuant to item (i) above or pursuant to Section 12.2, then the Licensee is entitled, for a period of six (6) months after the effective date of termination, to continue distribution of Devices under the Distribution Licenses paid but unused at such effective date of termination.

Upon any such termination the Licensee shall destroy or return to The Qt Company all copies of the Licensed Software and all related materials and will certify the same to The Qt Company upon its request, provided however that Licensee may retain and exploit such copies of the Licensed Software as it may reasonably require in providing continued support to Customers.

Expiry or termination of this Agreement for any reason whatsoever shall not relieve Licensee of its obligation to pay any License Fees accrued or payable to The Qt Company prior to the effective date of termination, and Licensee shall immediately pay to The Qt Company all such fees upon the effective date of termination. Termination of this Agreement shall not affect any rights of Customers to continue use of Applications and Devices (and therein incorporated Redistributables).

12.5. Extension in case of bankruptcy

In the event The Qt Company is declared bankrupt under a final, non-cancellable decision by relevant court of law, and this Agreement is not, at the date of expiry of the Development License(s) pursuant to Section 3.1, assigned to a party, who has assumed The Qt Company's position as legitimate licensor of Licensed Software under this Agreement, then all valid licenses possessed by the Licensee at such date of expiry, and which the Licensee has not notified for expiry, shall be extended to be valid in perpetuity under the terms of this Agreement.

13. GOVERNING LAW AND LEGAL VENUE

In the event this Agreement is in the name of The Qt Company Inc., a Delaware Corporation, then:

- (i) this Agreement shall be construed and interpreted in accordance with the laws of the State of California, USA, excluding its choice of law provisions;
- (ii) the United Nations Convention on Contracts for the International Sale of Goods will not apply to this Agreement; and
- (iii) any dispute, claim or controversy arising out of or relating to this Agreement or the breach, termination, enforcement, interpretation or validity thereof, including the determination of the scope or applicability of this Agreement to arbitrate, shall be determined by arbitration in San Francisco, USA, before one arbitrator. The arbitration shall be administered by JAMS pursuant to JAMS' Streamlined Arbitration Rules and Procedures. Judgment on the Award may be entered in any court having jurisdiction. This Section shall not preclude parties from seeking provisional remedies in aid of arbitration from a court of appropriate jurisdiction.

In the event this Agreement is in the name of The Qt Company Ltd., a Finnish Company, then:

- (i) this Agreement shall be construed and interpreted in accordance with the laws of Finland, excluding its choice of law provisions;
- (ii) the United Nations Convention on Contracts for the International Sale of Goods will not apply to this Agreement; and
- (iii) any disputes, controversy or claim arising out of or relating to this Agreement or the breach, termination or validity thereof shall be finally settled by arbitration in accordance with the Arbitration Rules of Finland Chamber of Commerce. The arbitration tribunal shall consist of one (1), or if either Party so requires, of three (3), arbitrators. The award shall be final and binding and enforceable in any court of competent jurisdiction. The arbitration shall be held in Helsinki, Finland and the process shall be conducted in the English language. This Section shall not preclude parties from seeking provisional remedies in aid of arbitration from a court of appropriate jurisdiction.

14. GENERAL PROVISIONS

14.1. No Assignment

Except in the case of a merger or sale of substantially all of its corporate assets, Licensee shall not be entitled to assign or transfer all or any of its rights, benefits and obligations under this Agreement without the prior written consent of The Qt Company, which shall not be unreasonably withheld or delayed. The Qt Company shall be entitled to freely assign or transfer any of its rights, benefits or obligations under this Agreement.

14.2. No Third-Party Representations

Licensee shall make no representations or warranties concerning the Licensed Software on behalf of The Qt Company. Any representation or warranty Licensee makes or purports to make on The Qt Company's behalf shall be void as to The Qt Company.

14.3. Surviving Sections

Any terms and conditions that by their nature or otherwise reasonably should survive termination of this Agreement shall so be deemed to survive. Such sections include especially the following: 1, 2, 6, 7, 9, 11, 12.4, 13 and 14.

14.4. Entire Agreement

This Agreement, the exhibits hereto, the License Certificate and any applicable Purchase Order accepted by The Qt Company constitute the complete agreement between the Parties and supersedes all prior or contemporaneous discussions, representations, and proposals, written or oral, with respect to the subject matters discussed herein.

In the event of any conflict or inconsistency between this Agreement and any Purchase Order, the terms of this Agreement will prevail over the terms of the Purchase Order with respect to such conflict or inconsistency.

Parties specifically acknowledge and agree that this Agreement prevails over any click-to-accept or similar agreements the Designated Users may need to accept online upon download of the Licensed Software, as may be required by The Qt Company's applicable processes relating to Licensed Software.

14.5. Modifications

No modification of this Agreement shall be effective unless contained in a writing executed by an authorized representative of each Party. No term or condition contained in Licensee's Purchase Order ("Deviating Terms") shall apply unless The Qt Company has expressly agreed such Deviating Terms in writing. Unless and to the extent expressly agreed by The Qt Company, any such Deviating Terms shall be deemed void and with no legal effect. For clarity, delivery of the Licensed Software following the receipt of the Purchase Order including Deviating Terms shall not constitute acceptance of such Deviating Terms."

14.6. Force Majeure

Except for the payment obligations hereunder, neither Party shall be liable to the other for any delay or non-performance of its obligations hereunder in the

event and to the extent that such delay or non-performance is due to an event of act of God, terrorist attack or other similar unforeseeable catastrophic event that prevents either Party for fulfilling its obligations under this Agreement and which such Party cannot avoid or circumvent ("Force Majeure Event"). If the Force Majeure Event results in a delay or non-performance of a Party for a period of three (3) months or longer, then either Party shall have the right to terminate this Agreement with immediate effect without any liability (except for the obligations of payment arising prior to the event of Force Majeure) towards the other Party.

14.7. Notices

Any notice given by one Party to the other shall be deemed properly given and deemed received if specifically acknowledged by the receiving Party in writing or when successfully delivered to the recipient by hand, fax, or special courier during normal business hours on a business day to the addresses specified for each Party on the signature page. Each communication and document made or delivered by one Party to the other Party pursuant to this Agreement shall be in the English language.

14.8. Export Control

Licensee acknowledges that the Redistributables, as incorporated in Applications or Devices, may be subject to export control restrictions under the applicable laws of respective countries. Licensee shall fully comply with all applicable export license restrictions and requirements as well as with all laws and regulations relating to the Redistributables and exercise of licenses hereunder and shall procure all necessary governmental authorizations, including without limitation, all necessary licenses, approvals, permissions or consents, where necessary for the re-exportation of the Redistributables, Applications and/or Devices.

14.9. No Implied License

There are no implied licenses or other implied rights granted under this Agreement, and all rights, save for those expressly granted hereunder, shall remain with The Qt Company and its licensors. In addition, no licenses or immunities are granted to the combination of the Licensed Software with any other software or hardware not delivered by The Qt Company under this Agreement.

14.10. Attorney Fees

The prevailing Party in any action to enforce this Agreement shall be entitled to recover its attorney's fees and costs in connection with such action.

14.11. Privacy

Licensee acknowledges and agrees that for the purpose of this Agreement, The Qt Company may collect, use, transfer and disclose personal data pertaining to Designated Users as well as any other employees and directors of the Licensee and its Contractors relevant for carrying out the intent of this Agreement. Such personal data may be collected from the Licensee or directly from the relevant individuals. The Parties acknowledge that with regard to such personal data processed hereunder, The Qt Company shall be regarded as the Data Controller under the applicable Data Protection Legislation. The Qt Company shall process any such personal data in accordance with its privacy policies and practices, which will comply with all applicable requirements of the Data Protection Legislation.

14.12. Severability

If any provision of this Agreement shall be adjudged by any court of competent jurisdiction to be unenforceable or invalid, that provision shall be limited or eliminated to the minimum extent necessary so that this Agreement shall otherwise remain in full force and effect and enforceable.

APPENDICES

The Agreement includes Appendix 1, and possibly one or more of the appendices 3-5, depending on the product(s) purchased by the Licensee, what is stated in the quote or invoice, and/or what is stated in the Licensee's License Certificate.

APPENDIX 1

The modules and/or tools that are included in the respective product - Qt for Application Development (QtAD), Qt for Device Creation (QtDC), Qt for MCUs (QtMCU), Qt 3D Studio (Qt3DS) and Qt Design Studio (QtDS) - are marked with 'X' in the below table.

Parts of the product that are permitted for distribution in object-code form only ("Redistributables") are marked with 'R' in the below table.

Modules/Tools	QtAD	QtDC	QtMCU	Qt3DS	QtDS
Qt Core	X,R	X,R			
Qt GUI	X,R	X,R			
Qt Multimedia	X,R	X,R			
Qt Multimedia Widgets	X,R	X,R			
Qt Network	X,R	X,R			
Qt QML	X,R	X,R			
Qt Quick	X,R	X,R			
Qt Quick Controls 2	X,R	X,R			
Qt Quick Dialogs	X,R	X,R			
Qt Quick Layouts	X,R	X,R			
Qt Quick Test	X,R	X,R			
Qt SQL	X,R	X,R			
Qt Test	X,R	X,R			
Qt Widgets	X,R	X,R			
Active Qt	X,R	X,R			
Qt 3D	X,R	X,R			
Qt Android Extras	X,R	X,R			
Qt Bluetooth	X,R	X,R			
Qt Canvas 3D	X,R	X,R			
Qt Concurrent	X,R	X,R			
Qt D-Bus	X,R	X,R			
Qt Gamepad	X,R	X,R			
Qt Graphical Effects	X,R	X,R			
Qt Help	X,R	X,R			
Qt Image Formats	X,R	X,R			
Qt Location	X,R	X,R			
Qt Mac Extras	X,R	X,R			

Qt Network Authorization	X,R	X,R		
Qt NFC	X,R	X,R		
Qt Platform Headers	X,R	X,R		
Qt Positioning	X,R	X,R		
Qt Print Support	X,R	X,R		
Qt Purchasing	X,R	X,R		
Qt for Python	X,R	X,R		
Qt Quick Controls	X,R	X,R		
Qt Quick Extras	X,R	X,R		
Qt Quick Widgets	X,R	X,R		
Qt SCXML	X,R	X,R		
Qt Sensors	X,R	X,R		
Qt Serial Bus	X,R	X,R		
Qt Serial Port	X,R	X,R		
Qt Speech	X,R	X,R		
Qt SVG	X,R	X,R		
Qt UI Tools	X,R	X,R		
Qt WebChannel	X,R	X,R		
Qt WebEngine	X,R	X,R		
Qt WebSockets	X,R	X,R		
Qt WebView	X,R	X,R		
Qt Windows Extras	X,R	X,R		
Qt X11 Extras	X,R	X,R		
Qt XML	X,R	X,R		
Qt XML Patterns	X,R	X,R		
Qt Wayland Compositor	X,R	X,R		
Qt Charts	X,R	X,R		
Qt Data Visualization	X,R	X,R		
Qt Virtual Keyboard	X,R	X,R		
Boot 2 Qt stack		X,R		
Qt OTA		X,R		
Device Utilities		X,R		
Qt Debugging Bridge (QDB) Daemon		X,R		
Qt Quick Ultralite Controls			X,R	
Qt Quick Ultralite			X,R	
Qt Creator	X	X	X	
Qt Designer (Qt Widget Designer)	X	X		
Qt Quick Designer (Qt Creator plugin)	X	X	X	
Qt Linguist	X	X	X	
Qt Assistant	X	X	X	
lupdate	X	X	X	
lrelease	X	X	X	
qmake	X	X		
uic	X	X		
rcc	X	X		
qlalr	X	X		
qdoc	X	X		
qmlscene	X	X		
qmlviewer	X	X		
Target toolchains		X	X	
Qt Debugging Bridge (QDB) Host Tools		X		
qtconfig-gui		X		
Qt Emulator		X		
qmlinterfacegenerator			X	
qmltocpp			X	
qulfontcompiler			X	
Qt53DStudioRuntime2				X,R
Qt 3D Studio				X
Qt Design Studio				X

APPENDIX 3: ADDITIONS TO LICENSED SOFTWARE

In addition to what is provided under the definition of the Licensed Software, Parties agree that Licensed Software shall also include the Add-On Products of The Qt Company, as mentioned in this Appendix, if included in the quote / invoice.

The Modules and/or Tools of the Licensed Software that are included with each Add-On Product respectively are marked with 'X' in the below table. Parts of the respective Add-On Product that are permitted for distribution in object-code form only ("Redistributables") are marked with 'R' in the below table.

Modules / Tools of Licensed Software	Add-On Product(s)					
	Qt for Automation	Qt Automotive Suite	Qt Safe Renderer	Qt Application Manager	Qt Gammaray	Qt Deployment Platform Package
Qt MQTT	X,R					
Qt KNX	X,R					
Qt OPC UA	X,R					
Qt CoAP	X,R					
Qt Safe Renderer		X,R	X,R			
Qt Application Manager		X,R		X,R		
Qt IVI		X,R				
Reference UI		X,R				
Qt GENIVI Extras		X,R				
QML Live		X				
Qt Creator Deployment		X				
Qt Creator Plugin for Qt Application Manager		X		X		
Qt Automotive Suite Deployment Server		X				
Qt Design Studio		X				
Qt 3D Studio		X				
GammaRay		X			X	
Platform adaptations for specified Deployment Platforms						X
Qt for Device Creation		X				

All the above Redistributables are subject to applicable provisions and limitations including but not limited to what is defined in section 3 of the Agreement.

APPENDIX 4: SMALL BUSINESS AND STARTUP

The provisions of this Appendix 4 are applicable for Start-up Companies and for the Evaluation Term. For the purpose of this Appendix 4, the following additional definitions shall be applicable:

"Trial Term" shall mean a period of twelve (12) months.

"Start-up Company" means a company with a maximum annual revenue, including funding, equivalent to 100,000 USD (in applicable currency) during a respective calendar year, as evidenced by duly audited records of the Licensee and approved by The Qt Company.

During the Trial Term, Section 3 shall apply with following modifications

("Trial Term Modifications"):

- (i) Licenses granted under Sections 3.1 and 3.2 shall be free of any charge. For clarity, License for distribution of Devices pursuant to Section 3.3 is subject to applicable License Fee for necessary Distribution Licenses;
- (ii) Development License under Section 3.1 is limited to a maximum of three (3) Designated Users; and
- (iii) Support is available subject to availability, as judged by The Qt Company at its free and absolute discretion, provided that support will be limited to a maximum of ten (10) tickets during the Trial Term.

Upon expiry of the Trial Term:

- (a) This Appendix 4 is terminated, Trial Term Modifications cease to remain in force, Licensee's Development Licenses shall be automatically converted into licenses subject to a License Fee (in the amount specified in the quote or in Appendix 2 and payable with a 30-day payment term) and Licensee's rights and obligations under this Agreement shall continue to remain in force under the standard provisions of the Agreement, unless the Licensee notifies The Qt Company in writing no less than ninety (90) days before such expiry date that Licensee does not agree to such continuance, in which event the Agreement, and all rights of the Licensee thereunder, shall expire; provided however that
- (b) in the event the Licensee still qualifies as a Start-up Company, the Licensee has an option ("Option"), instead of what is stated in item a) above, to renew the Trial Term. Renewal is limited to one time, and the total duration of Trial Term is thus 24 months after the effective date. Licensee shall notify The Qt Company in writing, no less than ninety (90) days before the expiry date, if Licensee wish to exercise the Option.

APPENDIX 5: NON-COMMERCIAL USE

The provisions of this Appendix 5 are applicable for non-commercial use of the Licensed Software by the Licensee.

For the purpose of this Appendix 5, the following additional definitions (replacing the relevant definition of the Agreement, where applicable) shall be applicable:

"Demo Units" shall mean (i) hardware development platform, which incorporates the Licensed Software along with Licensee's software and/or hardware, and (ii) prototype versions of Applications or Devices.

"Designated User(s)" shall mean the employees and students of the Licensee.

"Licensee Products" shall mean Applications and/or Devices.

"Permitted Purpose" shall mean (i) Licensee's internal evaluation and testing of Licensed Software, (ii) building Demo Units as well as (iii) educational use.

"Term" shall mean a period of twelve (12) months or any such other period as may be agreed between the Parties.

For the purpose of this Appendix 5, the following changes shall be agreed with respect to relevant Sections of the Agreement:

I. Recital (A) shall be replaced in its entirety to read as follows:
"(A) Licensee wishes to use the Licensed Software for the Permitted Purpose."

II. Section 3.1 shall be replaced in its entirety to read as follows:

"The Qt Company grants to Licensee a personal, non-exclusive, non-transferable, revocable, royalty-free license, valid for the Term, to use, modify and copy the Licensed Software solely for the Permitted Purpose.

Licensee may install copies of the Licensed Software on an unlimited number of computers provided that only Designated Users may use the Licensed Software.

Licensee may demonstrate the Demo Units, provided that such demonstrations must be conducted by Licensee, and the Demo Units must remain in Licensee's possession and under Licensee's control at all times.

For clarity, this Agreement does not (i) entitle Licensee to use Licensed Software to create Applications or Devices (other than prototypes thereof) or (ii) carry any distribution rights to Licensee, but such rights are subject to and conditional upon conclusion of a separate license agreement with The Qt Company."

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