

List of open source packages						
Name	Version	License	Owner	Source	Modification	Description
adapter-apt	NA	NA	Realtek Semiconductor Corp.			adapter API for intergration with RTK SDK
apcc_util (symbolic link)			Realtek Semiconductor Corp.			apcc_util -> /rtk_voip/apcc_util_for_8954E.wsp
alsa-lib-1.0.25	v1.0.25	LGPLv2.1	Jaroslav Kysela etc.	<a href="http://www.alsa-project.org/">http://www.alsa-project.org/</a>	YES	The Advanced Linux Sound Architecture (ALSA) provides audio and MIDI functionality to the Linux operating system. User space library (alsa-lib) to simplify application programming and provide higher level functionality.
alsa-lib-1.0.27.2	v1.0.27.2	LGPLv2.1	Jaroslav Kysela etc.	<a href="http://www.alsa-project.org/">http://www.alsa-project.org/</a>	YES	The Advanced Linux Sound Architecture (ALSA) provides audio and MIDI functionality to the Linux operating system. User space library (alsa-lib) to simplify application programming and provide higher level functionality.
alsa_related	v1.0.25	LGPLv2.1	Jaroslav Kysela etc.	<a href="http://www.alsa-project.org/">http://www.alsa-project.org/</a>	YES	The Advanced Linux Sound Architecture (ALSA) provides audio and MIDI functionality to the Linux operating system. User space library (alsa-lib) to simplify application programming and provide higher level functionality.
auth	v1.8e	GPLv2	Arunesh Mishra	NA	YES	This daemon co-works with wlan driver to provide WPA-enterprise/WPA2-enterprise function and compliant with WiFi Logo test
avahi-0.6.31	v0.6.31	LGPLv2.1	Red Hat, Inc., Scott James Remington, Purchdog Software etc.	<a href="http://avahi.org/">http://avahi.org/</a>	NO	Avahi is a system which facilitates service discovery on a local network via the mDNS/DNS-SD protocol suite
bird-1.4.0	v1.4.0	GPL	Martin Mares, Pavel Machek, Onjrej Filip, CZ.NIC z.s.p.o	<a href="http://bird.network.cz/">http://bird.network.cz/</a>	YES	The BIRD project aims to develop a fully functional dynamic IP routing daemon primarily targeted on (but not limited to) Linux, FreeBSD and other UNIX-like systems and distributed under the GNU General Public License.
bluez-5.24	v5.24	GPLv2	Maxim Krasnyansky <mmaxk@qualcomm.com> Marcel Holtmann <marcel@holtmann.org> Stephen Crane <steve.crane@roccosoft.com> Jean Tourrilhes <jt@hp.hp.com> Jan Beitel <j.beitel@ieee.org> Ilguz Latypov <ilatypov@superbt.com> Thomas Mosez	<a href="http://www.bluez.org/">http://www.bluez.org/</a>	YES	BlueZ provides support for the core Bluetooth layers and protocols. It is flexible, efficient and uses a modular implementation
boa	v0.94.14rc21	GPLv2	Paul Phillips, Larry Doolittle, Jon Nelson	<a href="http://www.boa.org/">http://www.boa.org/</a>	YES	Web server
bootcode	v1.1e.1	GPLv2	Realtek Semiconductor Corp.	NA	YES	bootcode for RTL819X SDK
bridge-utils	v0.9.5	GPLv2	Lennert Buytenhek	<a href="http://bridge.sourceforge.net/">http://bridge.sourceforge.net/</a>	NO	Utilities for configuring the Linux 2.4 bridge. This package contains utilities for configuring the Linux ethernet bridge. The Linux ethernet bridge can be used for connecting multiple ethernet devices together. The connecting is fully transparent: hosts connected to one ethernet device see hosts connected to the other ethernet devices directly.
busybox (symbolic link)			Realtek Semiconductor Corp.			busybox -> busybox-1.13
busybox-1.12	v1.12	GPLv2	Denys Vlasenko	<a href="http://www.busybox.net/">http://www.busybox.net/</a>	NO	BusyBox combines tiny versions of many common UNIX utilities into a single small executable.
busybox-1.13	v1.13	GPLv2	Denys Vlasenko	<a href="http://www.busybox.net/">http://www.busybox.net/</a>	NO	BusyBox combines tiny versions of many common UNIX utilities into a single small executable.
busybox-1.22.1	v1.22.1	GPLv2	Peter Willis <psyp@phreak.net> Emanuele Aina <emaneuele.aina@tiscali.it> Erik Andersen <candersen@codepoet.org>	<a href="http://git.busybox.net/busybox/">http://git.busybox.net/busybox/</a>	YES	BusyBox combines tiny versions of many common UNIX utilities into a single small executable. It provides minimalist replacements for most of the utilities you usually find in bin/p, coreutils, dhcp, diffutils, editors, file, findutils, gawk, grep, inetsutils, less, modutils, net-tools, procs, sed, shadow, syslogd, svmon, tar, util-linux, and vim. The utilities in BusyBox often have fewer options than their full-featured cousins; however, the options that are included provide the expected functionality and behave very much like their larger counterparts.
busybox-1.24.1	v1.24.1	GPLv2	Peter Willis <psyp@phreak.net> Emanuele Aina <emaneuele.aina@tiscali.it> Erik Andersen <candersen@codepoet.org> Laurence Anderson <l.a.anderson@warwick.ac.uk> Jeff Angielski <jeff@thetrgroup.com> Enrik Berkhan <Enrik.Berkhan@linka.de> Jim Bausz <jbauer@inf.com>	<a href="http://git.busybox.net/busybox/">http://git.busybox.net/busybox/</a>	YES	BusyBox combines tiny versions of many common UNIX utilities into a single small executable. It provides minimalist replacements for most of the utilities you usually find in bin/p, coreutils, dhcp, diffutils, editors, file, findutils, gawk, grep, inetsutils, less, modutils, net-tools, procs, sed, shadow, syslogd, svmon, tar, util-linux, and vim. The utilities in BusyBox often have fewer options than their full-featured cousins; however, the options that are included provide the expected functionality and behave very much like their larger counterparts.
cmake-2.8.12.1	v2.8.12.1	BSD License	Kitware, Inc., Insight Software Consortium	<a href="https://cmake.org/files/v2.8/">https://cmake.org/files/v2.8/</a>	YES	This is CMake, the cross-platform, open-source make system.
comgt-0.32	v0.32	GPLv2	Paul Hardwick	<a href="http://sourceforge.net/projects/3G/GPRS/datacard-management-utility/">http://sourceforge.net/projects/3G/GPRS/datacard-management-utility/</a>	NO	
CUnit-2.1-2	v2.1-2	GPLv2	Anil Kumar, Jerry St. Clair	<a href="http://cunit.sourceforge.net/">http://cunit.sourceforge.net/</a>	NO	CUnit is a lightweight system for writing, administering, and running unit tests in C. It provides C programmers a basic testing functionality with a flexible variety of user interfaces
curl-7.34.0	v7.34.0	COPYRIGHT AND PERMISSION NOTICE	Daniel Stenberg	<a href="http://curl.haxx.se/">http://curl.haxx.se/</a>	NO	curl is a command line tool and library for transferring data with URL syntax, supporting DICT, FILE, FTP, FTPS, Gopher, HTTP, HTTPS, IMAP, IMAPS, LDAP, LDAPS, POP3, POP3S, RTMP, RTSP, SCP, SFTP, SMB, SMTP, SMTPS, Telnet and TFTP. curl supports SSL certificates, HTTP POST, HTTP PUT, FTP uploading, HTTP form based upload, proxies, HTTP/2, cookies, user+password authentication (Basic, Plain, Digest, CRAM-MD5, NTLM, Negotiate and Kerberos), file transfer resume, proxy tunneling and more.
curl-7.36.0	v7.36.0	COPYRIGHT AND PERMISSION NOTICE	Daniel Stenberg	<a href="http://curl.haxx.se/">http://curl.haxx.se/</a>	NO	curl is a command line tool and library for transferring data with URL syntax, supporting DICT, FILE, FTP, FTPS, Gopher, HTTP, HTTPS, IMAP, IMAPS, LDAP, LDAPS, POP3, POP3S, RTMP, RTSP, SCP, SFTP, SMB, SMTP, SMTPS, Telnet and TFTP. curl supports SSL certificates, HTTP POST, HTTP PUT, FTP uploading, HTTP form based upload, proxies, HTTP/2, cookies, user+password authentication (Basic, Plain, Digest, CRAM-MD5, NTLM, Negotiate and Kerberos), file transfer resume, proxy tunneling and more.
ctorrent-dnh3.3.2	v3.3.2	GPLv2	VuHong	<a href="http://www.rahu1.net/dholidays/">http://www.rahu1.net/dholidays/</a>	NO	CTorrent is a BitTorrent client implemented in C++ to be lightweight and quick.

dbus-1.8.0	v1.8.0	GPLv2 or Academic Free License v2.1	Alban Creque <alban.creque@collabora.co.uk> Alexander Larsson <aalex@redhat.com> Anders Carlsson <andersca@codefactory.se> Andre Heinecke <aheinecke@intevation.de> Artem Bityutsky <Artem.Bityutsky@nokia.com> Aurelien Jarno <aurel32@debian.org> Benjamin Read <rangerick@belunk.com> Brian Cameron <brian.cameron@oracle.com> Brian Cameron <brian.cameron@sun.com> Chris Mayo <aklites@gmail.com> Christian Dywan <christian.dywan@lanedo.com> Christian Ehrlicher <Ch.Ehrlicher@gmx.de> Christian Porsch (GNOME) <chpe@gnome.org> Colin Walters <cwalters@verbum.org> Colin Watson <cjwatson@ubuntu.com> Cosimo Alfarano <cosimo.alfarano@collabora.co.uk> Cristian Rodriguez <cristian.rodriguez@opensuse.org> Cyril Brulebois <kibi@debian.org> Daniel P. Berrange <dan@berrange.com> Daniel Reed <djr@redhat.com> David Zseuhen <davidz@redhat.com> Dennis Kaarsemaker <dennis@kaarsemaker.net> Diego E. Fiammesse <Petternd	http://www.freedesktop.org/wiki/	NO	D-Bus is a message bus system, a simple way for applications to talk to one another. In addition to interprocess communication, D-Bus helps coordinate process lifecycle. It makes it simple and reliable to code a "single instance" application or daemon, and to launch applications and daemons on demand when their services are needed.
dotcs.src	v1.4.1	GPLv2	toognarg@dotcs@gmail.com	http://www.rauh.net/dotcs/	NO	CTorrent Control Server (CTCS) is an interface for monitoring and managing Enhanced CTorrent clients. It can manage allocation of bandwidth, provide status information, and allow changes to the running configuration of each client. Communication with CTorrent is via a TCP connection, and the user interface is a web browser.
discover			Realtek Semiconductor Corp.			No longer Used
dina_dms	v1.1a	GPLv2	Benjamin Zores	http://ushare.geexbox.org/	NO	uShare is a UPnP (TM) AV & DLNA Media Server. It implements the server component that provides UPnP media devices with information on available multimedia files. uShare uses the built-in http server of libupnp to stream the files to clients.
dnrd-2.12.1	v2.12.1	GPLv2	Brad Garcia, Benjamin Petrin, Nathan Angela	http://sourceforge.net/projects/	YES	Domain Name Relay Daemon is a caching, forwarding DNS proxy server. Most useful on vpn or dialup firewalls but it is also a nice DNS cache for minor networks and workstations.
dnsmasq-2.33	v2.33	GPLv2	Simon Kelley	http://thekelleys.org.uk/dnsmasq/	NO	Dnsmasq is a lightweight, easy to configure DNS forwarder and DHCP server
dotstools-4.0	v4.0	GPLv3	Roman Hodek, Daniel Baumann, Andreas Bombe	https://ossies.org/linux/misc/d/	NO	dotstools consists of the programs mkfs.fat, fsck.list and fatlabel to create, check and label file systems of the FAT family.
e2fsprogs-1.42.11.tar.gz	v1.42.11	GPL v2	Theodore Ts'o	http://e2fsprogs.sourceforge.net/	NO	The e2fsprogs package contains essential ext2 filesystem utilities which consists of e2fsck, mke2fs, debugfs, dumpe2fs, tune2fs, and most of the other core ext2 filesystem utilities.
ecmh		GPL or GPLv2	Jerome Massar	http://unix.org/projects/ecmh/	YES	an mlib proxy for IPv6
eflrci	NA	NA	Realtek Semiconductor Corp.			Helps to control eth for iso multi wan
expat-2.1.0	2.1.0	Copyright (c) 1998, 1999, 2000 Thai Open Source Software Center Ltd and Clark, Cooper Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006 Expat maintainers.  Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:  The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.  THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.	James Clark, Thai Open Source Software Center Ltd, etc.	http://www.libexpat.org/	NO	expat is an XML parser library, written in C
flattsd			Greg Ungerer, SnapGear Lineo Inc., CyberGuard, David McCullough, etc.			flattsd for t069 daemon read/write flash in runtime
fuse-2.9.0	v2.9.0	GPL v2	Miklos Szeredi, Tejun Heo	http://sourceforge.net/projects/	NO	fuse-2.9.0 is a library for Filesystem in Userspace to export a virtual filesystem to the Linux kernel.
fuse-exfat-1.1.0	v1.1.0	GPL v2	Andrew Nayenko	http://code.google.com/p/exfat/	NO	fuse-exfat-1.1.0 is a free exFAT file system implementation with write support.
gdb	v6.8	GPLv2/3	the GDB developers	http://www.gnu.org/software/g/	NO	GDB, the GNU Project debugger, allows you to see what is going on 'inside' another program while it executes - or what another program was doing at the moment it crashed.
gettext-0.18.3.1	v0.18.3.1	GPLv3	Ulrich Drepper, Peter Miller, Francois Pinard, Ben Kasmin Bullock, Bruno Haible, Tim Van Holder, Tommy Johansson, Karl Eichwaider, SUSE Linux AG, Alexandre Duret-Lutz, Guido Flohr, Michele Ciccioiti alias KJK, Hyphenon, Nontada Kobayashi, KO Myung-Hun, Lubomir Remak, Dakki Ueno, Miguel Angel Arruga Vivas, FutrelLAB, AG etc.	http://www.gnu.org/software/g/	NO	the GNU 'gettext' utilities are a set of tools that provides a framework to help other GNU packages produce multi-lingual messages
gdbm-1.8.3	v1.8.3	GPLv2	dawnsj@downsj.com, phil@cs.wvu.edu	http://www.gnu.org/software/g/	NO	GNU dbm is a set of database routines that use extensible hashing and works similar to the standard UNIX dbm routines

glib-2.36.0	v2.36.0	GPLv2	GLib-2.0 Team ----- Hans Breuer <hans@breuer.org> Mathias Classen <mclassen@redhat.com> Tor Lillqvist <tml@iki.fi> Tim Janik <tjmj@gtk.org> Havoc Pennington <hp@redhat.com> Ron Steinke <rsteinke@w-link.net> Owen Taylor <otaylor@redhat.com> Sebastian Wilhelm <seppi@seppi.de>  GLib-1.2 Team ----- Shawn T. Amundson <amundson@gimp.org> Jeff Garzik <jgarzik@pobox.com> Raja R. Harinath <harinath@cs.umn.edu> Tim Janik <tjmj@gtk.org> Elliot Lee <esopwith@redhat.com> Tor Lillqvist <tml@iki.fi> Pablo Molero <pmolero@debian.org> Havoc Pennington <hp@pobox.com> Manish Singh <yosh@gimp.org> Owen Taylor <otaylor@gtk.org> Sebastian Wilhelm <wilhelmi@ira.uka.de>  The random number generator "Mersenne Twister", which is used by GLib, was developed and originally coded by Makoto Matsumoto <matumoto@math.keio.ac.jp> Takuji Nishimura	http://ftp.acc.umu.se/pub/GN	NO	GLib is a bundle of five low-level system libraries written in C and developed mainly by GNOME.
GNU/Linux kernel	v2.6.30.9	GPLv2	Linux Kernel Organization	http://www.kernel.org	YES	
GNU/Linux kernel	v3.10.24	GPLv2	Linux Kernel Organization	http://www.kernel.org	YES	
goahead-2.1.1	v2.1.1	royalty free licensing terms	GoAhead Software	http://www.goahead.com/prod	YES	GoAhead WebServer leverages Active Server Pages (note that ASP.NET is not supported), embedded JavaScript, and in-process CGI forms processing to deliver highly efficient and effective dynamic Web page creation. WebServer also includes support for SSL, Digest Access Authentication, User Management, and standard CGI.
hostapd-2.0	v2.0	GPLv2/BSD Dual license	Jouni Malinen	http://hostapd.sourcerearchiv	YES	Jouni Malinen's hostapd is a user space daemon for access point and authentication servers. It implements IEEE 802.11 access point management, IEEE 802.1X/WPA/WPA2/EAP Authenticators, RADIUS client, EAP server, and RADIUS authentication server the hostapd daemon.
hub2	NA	NA	Realtek Semiconductor Corp.			
hub-ctrl	NA	GPLv2	NIIBE Yutaka	www.gnibbe.org/otolite/ac-power-control-by-USB-hub/hubctrl.c	YES	A tool to control USB Hub Port
IAPP	v1.7	GPLv2	Jouni Malinen	http://hostap.epitest.fi/wpa_supplicant/develop/dr_5a5c05d102f442b85dfc95aa4590d78.html	YES	IEEE 802.11F or Inter-Access Point Protocol is a recommendation that describes an optional extension to IEEE 802.11 that provides wireless access-point communications among multivendor systems
igmpproxy	v1.2	GPLv2	Constantin Baranov,Johnny Egeland	http://sourceforge.net/projects	YES	IGMPProxy is a simple dynamic Multicast Routing Daemon using only KMP sprralling. It's intended for simple forwarding of Multicast traffic between networks.
iperf-2.0.4	v2.0.4	Copyright (c) 1999-2007, The Board of Trustees of the University of Illinois	Mark Gates Ajay Trumala Jim Ferguson Jon Dugan	http://www.esa.utac.edu	NO	a tool for measuring Internet bandwidth performance.
iproute2-2.6.29-1	v2.6.19	GPLv2	Stephen Hemminger, Alexey Kuznetsov	http://www.linuxfoundation.org/projects/lkml/patches/2009/05-28/iproute2	NO	iproute2 is a collection of utilities for controlling TCP / IP networking and traffic control in Linux.
iptables-1.4.4	v1.4.4	GPLv2	Patrick McHardy,Harald Welte,Josef Kadijsak,Martin Josefsson,Yasuyuki Kozakai,Pablo Neira Ayuso,James Morris,Marc Boucher,Rusty Russel	http://www.netfilter.org/about.html#license http://www.netfilter.org/projects/iptables/downloads.html#iptables-1.4.4	NO	iptables is a user space application program that allows a system administrator to configure the tables provided by the Linux kernel firewall (implemented as different Netfilter modules) and the chains and rules it stores.
json-c-0.12.tar.gz	v0.12	The MIT License	Michael Clark <michael@metaparadigm.com> Jehiah Czebator <jehiah@gmail.com> Eric Haszlkawicz <hawicz@json-c@gmail.com> C. Watford <christopher.watford@gmail.com>	https://github.com/json-c/json-c	NO	JSON-C implements a reference counting object model that allows you to easily construct JSON objects in C, output them as JSON formatted strings and parse JSON formatted strings back into the C representation of JSON objects.
l2tpd	v0.69	GPLv2	Adrian, Inc., Jeff McAdams	http://sourceforge.net/projects/l2tpd/	YES	A Layer 2 Tunneling Protocol VPN client/daemon for Linux and other POSIX-based Oss.
l7-protocols(symbolic link)			Realtek Semiconductor Corp.			l7-protocols -> l7-protocols-2009-05-28
l7-protocols-2009-05-28	v20090528	GPLv2	The original coders were Justin Levandoski, Ethan Sommer, and Matthew Strait, with support from Sebastian Celis, Andy Exley and Lillis Kintodeg. The primary maintainers are now Ethan Sommer and Matthew Strait.	http://l7-filter.sourceforge.net/ http://sf.net/projects/l7-filter/ http://l7-filter.sf.net/protocols http://downloads.sf.net/l7-filter/%name-%version.tar.gz http://sourceforge.net/projects/l7-filter/files/	NO	L7-filter is a classifier for Linux's Netfilter that identifies packets based on application layer data. It can classify packets as Kazaa, HTTP, Jabber, Citrix, BitTorrent, FTP, Gnutella, eDonkey2000, etc., regardless of port. It complements existing classifiers that match on IP address, port numbers and so on.
libdaemon-0.14	v0.14	LGPLv2.1	Lennart Poettering	http://lpoettering.de/lennart/projects/libdaemon/	NO	libdaemon is a lightweight C library that eases the writing of UNIX daemons
libevent-2.0.21-stable	v2.0.21	3-clause BSD license arc4module: OpenBSD license	Niels Provos and Nick Mathewson	http://libevent.org/	NO	The libevent API provides a mechanism to execute a callback function when a specific event occurs on a file descriptor or after a timeout has been reached. Furthermore, libevent also support callbacks due to signals or regular timeouts.
libffi-3.0.13	v3.0.13	libffi - Copyright (c) 1996-2012 Anthony Green, Red Hat, Inc and others. See source files for details.  Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:  The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.  THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR	Anthony Green,Red Hat Inc etc.	http://sourceware.org/libffi/	NO	libffi is a foreign function interface library. It provides a C programming language interface for calling native compiled functions given information about the target function at run time instead of compile time. It also implements the opposite functionality: libffi can produce a pointer to a function that can accept and decode any combination of arguments defined at run time.
libiconv-1.14	v1.14	GPLv3	Bruno Hable <bruno@clisp.org>	http://www.gnu.org/software/libiconv/	NO	libiconv provides an iconv() implementation, for use on systems which don't have one, or whose implementation cannot convert from/to Unicode
libnl-1.1	v1.1	GNU LESSER GENERAL PUBLIC LICENSE Version 2.1	Thomas Graf	http://www.infradead.org/~tgr/libnl/	NO	libnl is a library for applications dealing with netlink sockets. The library provides an interface for raw netlink messaging and various netlink family specific interfaces.

libpcap-1.4.0	v1.4.0	3-clause BSD license	tcpdump-workers	http://www.tcpdump.org/index.html#	NO	libpcap is a portable C/C++ library for network traffic capture.
librpc-0.9.32-rc2	v0.9.32-rc2	GPLv2 LGPLv2.1	Sun Microsystems, Inc.	http://143.129.80.193/openwrt/gw/	YES	librpc-0.9.32-rc2 is a library generally exist in openwrt.
libsndfile-1.0.25	v1.0.25	LGPL v2.1	Erik de Castro Lopo, Julia Degener, Carsten Bormann, Sun Microsystems, Inc etc	http://www.mega-nerd.com/libsndfile/	NO	Libsndfile is a C library for reading and writing files containing sampled sound (such as MS Windows WAV and the Apple/SGI AIFF format) through one standard library interface.
libubox-2014-08-04	libubox-2014-08-04-dfbc09ba71b294185a36048166a00066d43365	GPLv2	Hannes Greder&Hannes Greder Felix Fietkau John Crispin Steven Barth	http://git.openwrt.org/projects/libubox.git	NO	It's a set of utilities, mostly wrappers, that are present usually in programs and that have been coded in a flexible and reusable way to avoid wasting time
libusb-0.1.12	v0.1.12	GNU LESSER GENERAL PUBLIC LICENSE Version 2.1	Johannes Erdtelt, <johannes@erdelt.com> Thomas Sailer, <sailer@ife.ee.ethz.ch> Brad Hards, <bradhi@trg.mouth.net>	http://www.libusb.org/	NO	This is the home of libusb, a library that gives user level applications uniform access to USB devices across many different operating systems. libusb is an open source project licensed under the GNU Lesser General Public License version 2.1.
libusb-1.0.9	v1.0.9	LGPLv2.1	Daniel Drake <dsd@gentoo.org>, Johannes Erdtelt <johannes@erdelt.com>, Nathan Hjelm <nhjelm@users.sourceforge.net>, Pete Batard <pete@akeo.ie>, Michael Plante <michael.plante@gmail.com>, Peter Stuge <peter@stuge.se>, Hans de Goede <hdegoede@redhat.com>, Martin Pieuchot <cmpi@openbsd.org>	http://www.libusb.org/	NO	libusb is a library that gives user level applications uniform access to USB devices across many different operating systems. libusb is an open source project licensed under the GNU Lesser General Public License version 2.1.
libusb-1.0.20	v1.0.20	LGPLv2.1	Copyright © 2001, Johannes Erdtelt <johannes@erdelt.com> Copyright © 2007-2009 Daniel Drake <dsd@gentoo.org> Copyright © 2010-2012 Peter Stuge <peter@stuge.se> Copyright © 2008-2013 Nathan Hjelm <nhjelm@users.sourceforge.net> Copyright © 2009-2013 Pete Batard <pete@akeo.ie> Copyright © 2008-2013 Ludovic Rousseau <ludovic.rousseau@gmail.com> Copyright © 2010-2012 Michael Plante <michael.plante@gmail.com> Copyright © 2011-2013 Hans de Goede <hdegoede@redhat.com> Copyright © 2012-2013 Martin Pieuchot <cmpi@openbsd.org> Copyright © 2012-2013 Toby Gray <toby.gray@realvnc.com> Copyright © 2013-2015 Chris Dickens <chrisdickens@gmail.com> Daniel Drake <dsd@gentoo.org>	http://www.libusb.org/	NO	libusb is a library that gives user level applications uniform access to USB devices across many different operating systems. libusb is an open source project licensed under the GNU Lesser General Public License version 2.1.
libusb-compat-0.1.5	v0.1.5	LGPLv2.1	Daniel Drake <dsd@gentoo.org>	http://www.libusb.org/	NO	libusb-compat-0.1 is a compatibility layer allowing applications written for libusb-0.1 to work with libusb-1.0. libusb-compat-0.1 attempts to look.
ltp	NA	some is under GPLv2, other is NOT.	LTP team; Realtek Semiconductor Corp.	http://ltp.sourceforge.net/	YES	The Linux™ Test Project is a joint project started by SGI™ and maintained by IBM®, that has a goal to deliver test suites to the open source community that validate the reliability, robustness, and stability of Linux. The LTP test suite contains a collection of tools for testing the Linux kernel and related features.
lzma465	v4.65	Public Domain	Igor Pavlov	http://sourceforge.net/projects/lseventic/	NO	A library support LZMA
lzo-2.08	v2.08	GPLv2	Copyright (C) 1989, 1991 Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.	http://www.oberhammer.com/opensource/lzodownload	NO	A portable lossless data compression library
mbedtls	v2.2.1	GPLv2	Adrian de Jong <dejong@tox.it.com> Mathias Ollisan <mollisan@kompetensum.com>	https://fhs.mbed.org/download	YES	An open-source SSL library
mibak_eject	v0.14	GPLv2	D. Gilbert	NA	YES	A tool to eject Linux SCSI device
mdadm-3.2.5	v3.2.5	GPLv2	Neil Brown	https://www.kernel.org/pub/linux/utils/raid/mdadm/	YES	A tool to manage Linux "md" devices aka RAID arrays
mindlna-1.0.19	v1.0.19	GPLv2	Justin Maggard	http://sourceforge.net/projects/mindlna/	NO	MindDLNA (aka ReadyDLNA) is server software with the aim of being fully compliant with DLNA/UPnP-AV clients. It is developed by a NETGEAR employee for the ReadyNAS product line. So if you are looking for a NAS, please consider ReadyNAS first!
mlnproxy		GPLv2	Constantin Baranov, Johnny Egelan	http://sourceforge.net/projects/jgmpproxy/	YES	The Multicast Listener Discovery (MLD) Proxy feature provides a mechanism for a device to generate MLD membership reports for all entries or a user-defined subset of these entries on the device's upstream interface.
mpc-daemon	NA		Realtek Semiconductor Corp.			Tools for MP
handflash_imageAutoMake/bch6_eccen	NA		Realtek Semiconductor Corp.			hand flash image generator for flash writer machine
handflash_imageAutoMake/mkvaufs2img	v 1.4	GPL v2	Charles Manning	NA	YES	tools to create vaufs filesystem archive
nbserver	v1.5.30	GPLv2	Andrew Tridgell	http://us1.samba.org/samba/docs/10years.html http://ftp.samba.org/pub/samba/a/old-versions/nbserver-1.5.30.tar.gz	NO	December 1993 was a pretty busy month for the project. With the release of version 1.5.21 the "smb.conf" file was born thanks to the work of Karl Auer. This was quite revolutionary for the project largely because the structure of the code made it very easy to add new runtime config options. Pretty soon the project caught "optosites" in a big way, much to the regret of anyone trying to keep up with Samba documentation.
ndisc6-1.0.3	v1.0.3	GPLv2	Pierre Yisard Yin, Kwong-Sang Fred L. Templin	http://www.nmlab.net/files/ndisc67C%N%O-D	YES	This package gathers a few diagnostic tools for IPv6 networks: - ndisc6, which performs ICMPv6 Neighbor Discovery in userland, - rdisc6, which performs ICMPv6 Router Discovery in userland, - rtracertool6, yet another IPv6 implementation of traceroute, - tpttracertool6, a TCP/IPv6-based traceroute implementation, - rdnssd, a tool for parse rdnsd and dnsl option in router advertisement
ndpdp	v0.2.3	GPL v3	Daniel Adolffsson	http://priv.nu/projects/ndpdp/	YES	An NDP Proxy Daemon
net-snmp-5.4.1	5.4.1	BSD	The net-snmp developers	http://www.net-snmp.org/	YES	Net-SNMP is a suite of applications used to implement SNMP v1, SNMP v2c and SNMP v3 using both IPv4 and IPv6.
nfs-3g_nitprogs-2014.2.15	v2014.2.15	GPLv2	Present authors of nfs-3g in alphabetical order: Jean-Pierre Andre Alon Bar-Lev Martin Bene Dominique L Bouix Casaba Henk Bernhard Kandi Erik Larsson Alejandro Pulver Sotabios Szakacsits Miklos Szerefi  Past authors in alphabetical order: Anton Ataparmakov Mario Emmerlauer Yuxai Fiedel Yura Pashchychy Richard Russon	http://www.tuxera.com/comm/unity/open-source-nfs-3g/	YES	NFS-3G is a stable read/write NFS driver. It is available for over 180 Linux distributions and the default read/write NFS driver for most major ones. It has been ported to many other operating systems like FreeBSD, NetBSD, Solaris, Haiku, and Mac OS X, and to littlebig-endian, 32/64-bit, and MMU-less computer architectures
ntpclient	v2.0	GPLv2	Larry Doolittle	http://doolittle.icarus.com/ntpclient/	YES	ntpclient is an NTP (RFC-1305) client for unix-alike computers. Its functionality is a small subset of ntpd, but IMHO performs better (or at least has the potential to function better) within that limited scope. Since it is much smaller than ntpd, it is also more relevant for embedded computers.
opencapwap	v1.0	GPLv2	Ludovico Rossi, Del Moro Andrea, Giovanni Federica, Massimo Vellucci, Mauro Bisson, Antonio Davoli	https://github.com/vollero/oper	YES	CAPWAP is Control and Provisioning of Wireless Access Points, it's for the purpose of centralized control and management of different APs via Access Controller (AC)
openssl-0.9.8i	0.9.8i	Apache-style	Eric A. Young, Tim J. Hudson	http://www.openssl.org/	YES	The OpenSSL Project is a collaborative effort to develop a robust, commercial-grade, full-featured, and Open Source toolkit implementing the Secure Sockets Layer (SSL v2/v3) and Transport Layer Security (TLS v1) protocols as well as a full-strength general purpose cryptography library. It is managed by a worldwide community of volunteers that use the Internet to communicate, plan, and develop the OpenSSL toolkit and its related documentation.

Open Source

openssl-0.9.8y	0.9.8y	Apache-style	Eric A. Young/Tim J. Hudson	<a href="http://www.openssl.org/">http://www.openssl.org/</a>	YES	The OpenSSL Project is a collaborative effort to develop a robust, commercial-grade, full-featured, and Open Source toolkit implementing the Secure Sockets Layer (SSL, v2/v3) and Transport Layer Security (TLS v1) protocols as well as a full-strength general purpose cryptography library. The project is managed by a worldwide community of volunteers that use the Internet to communicate, plan, and develop the OpenSSL toolkit and its related documentation.
openvpn-2.3.4	v2.3.4	GPLv2	Copyright (C) 2002-2010 OpenVPN Technologies, Inc. This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License version 2 as published by the Free Software Foundation.	<a href="http://openvpn.net">http://openvpn.net</a>	YES	An application used to create VPN.
oraydnrns	NA		Realtek Semiconductor Corp.			Daemon for support Oraydnrns (0-1-0-dnrs)
parted-3.0	v3	GPLv3	Leslie Patrick Polzer, Andrew Clausen, Lennert Buytenhek, Matthew Wilson	<a href="http://www.gnu.org/software/parted/">http://www.gnu.org/software/parted/</a>	NO	GNU Parted is a program for creating and manipulating partition tables.
portmap_6.0	v6.0	BSD Original	Wietse Venema (wietse@wzvw.vin.uue.nl)	<a href="http://neil.brown.name/gsl/portmap">http://neil.brown.name/gsl/portmap</a>	YES	The portmapper manages RPC connections, which are used by protocols such as NFS and NIS. The portmap server must be running on machines which act as servers for protocols which make use of the RPC mechanism. This portmapper supports hosts, (allow,deny) type access control.
ppp-2.4.4	2.4.4	GPLv2	Paul Mackerras, Michal Ostrowski, Frank Csucsek	<a href="ftp://ftp.samba.org/pub/ppp/">ftp://ftp.samba.org/pub/ppp/</a>	YES	The Point-to-Point Protocol (PPP) provides a standard way to establish a network connection over a serial link.
ppptp-1.7.2	1.7.2	GPLv2	C. Scott Ananian	<a href="http://sourceforge.net/projects/ppptpclient/">http://sourceforge.net/projects/ppptpclient/</a>	NO	ppptp-linux is an implementation of the PPTP protocol for Linux and other Unix systems.
radvd-0.9.1	v0.9.1	The author(s) grant permission for redistribution and use in source and binary forms, with or without modification, of the software and documentation provided that the following conditions are met: 0. If you receive a version of the software that is specifically labelled as not being for redistribution (check the version message and/or README), you are not permitted to redistribute that version of the software in any way or form. 1. All terms of all other applicable copyrights and licenses must be followed. 2. Redistributions of source code must retain the authors' copyright notice(s), this list of conditions, and the following disclaimer. 3. Redistributions in binary form must reproduce the authors' copyright notice(s), this list of conditions, and the following disclaimer in the documentation and/or other materials provided with the distribution. 4. All advertising materials mentioning features or use of this software must display the following acknowledgment with the name(s) of the authors as specified in the copyright	Lars Fenneberg	<a href="http://www.litech.org/radvd/">http://www.litech.org/radvd/</a>	NO	The Router Advertisement Daemon (radvd) is an open-source software product that implements link-local advertisements of IPv6 router addresses and IPv6 routing prefixes using the Neighbor Discovery Protocol (NDP) as specified in RFC 2461.[2]
rz	NA		Realtek Semiconductor Corp.			System utility
readline-6.3.tar.gz	6.3	GPL v3	chet.ramey@case.edu	<a href="http://cwiwi.cwiwi.cwiwi.edu/~chet/readline/top.html">http://cwiwi.cwiwi.cwiwi.edu/~chet/readline/top.html</a>	NO	The GNU Readline library provides a set of functions for use by applications that allow users to edit command lines as they are typed in. Both Emacs and vi editing modes are available. The Readline library includes additional functions to maintain a list of previously-entered command lines, to recall and perhaps reedit those lines, and perform esh-like history expansion on previous commands.
reinit	NA		Realtek Semiconductor Corp.	NA		sendhandle init event via ubus
routed	netkit-routed-0.16	BSD license	Miquel van Smoorenburg	<a href="http://darkware.org/old/ubusware_source/netkit/">http://darkware.org/old/ubusware_source/netkit/</a>	YES	RIP daemon for dynamic routing
rtk bluetooth firmware	NA		Realtek Semiconductor Corp.			Realtek bluetooth firmware
rtk_ble_repeater_config	NA		Realtek Semiconductor Corp.			Realtek BLE config is a daemon communication via BLE with an IOS phone which has been installed a repeater config App. The iPhone can communicate with this daemon to config the DUT (repeater) to scan APs around and choose one to connect to.
rtk_bt_repeater_config	N/A		Realtek Semiconductor Corp.			Realtek Bluetooth Config is a daemon communicating via Bluetooth roomm socket with an Android phone which has been installed a repeater config App. The Android phone can communicate with this daemon to config the DUT (repeater) to scan APs around and choose one to connect to.
rtk_cmds	NA		Realtek Semiconductor Corp			System utility
rtk_inbandHost	NA		Realtek Semiconductor Corp.			System utility
rtk_inbandLib	NA		Realtek Semiconductor Corp.			System utility
rtk_voip (symbolic link)			Realtek Semiconductor Corp.			rtk_voip -> /rtk_voip/rtk_voip_sdk_usr_for_voip
rtk_voip@09e (symbolic link)			Realtek Semiconductor Corp.			rtk_voip@09e -> /rtk_voip/rtk_voip_sdk_usr_for_8954E_voip
samba-3.0.24	v3.0.24	GPL v2	The Samba Team	<a href="http://samba.org/samba">http://samba.org/samba</a>	NO	Samba is the standard Windows interoperability suite of programs for Linux and Unix.
samba-3.2.15	3.2.15	GPL v3	The samba team	<a href="http://samba.org/samba">http://samba.org/samba</a>	YES	Samba is the standard Windows interoperability suite of programs for Linux and Unix.
samba-3.6.24	3.6.24	GPL v3	The samba team	<a href="http://samba.org/samba">http://samba.org/samba</a>	YES	Samba is the standard Windows interoperability suite of programs for Linux and Unix.
script	NA		Realtek Semiconductor Corp.			init script
simple_config	NA		Realtek Semiconductor Corp.			tool for client mode device connect to AP
squashfs4.0	v4.0	GPL v2	Phillip Lougher	<a href="http://sourceforge.net/projects/squashfs/">http://sourceforge.net/projects/squashfs/</a>	YES	Squashfs is a highly compressed read-only filesystem for Linux.
squashfs4.2	v4.2	GPL v2	Phillip Lougher	<a href="http://sourceforge.net/projects/squashfs/">http://sourceforge.net/projects/squashfs/</a>	YES	Squashfs is a highly compressed read-only filesystem for Linux.
tcp2lev (symbolic link)			Realtek Semiconductor Corp.			tcp2lev -> /rtk_voip/tcp2lev_for_8954E_voip_release_packages
termcap-1.3.1.tar.gz	1.3.1	GPL v2	GNU GENERAL PUBLIC LICENSE Version 2, June 1991 Copyright (C) 1989, 1991 Free Software Foundation, Inc. 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.	<a href="http://ftp.gnu.org/gnu/termcap/">http://ftp.gnu.org/gnu/termcap/</a>	NO	Termcap is a library and data base that enables programs to use display terminals in a terminal-independent manner. It originated in Berkeley Unix.
traceroute-2.0.21	2.0.21	GPLv2	Dmitry Butskoj	<a href="http://sourceforge.net/projects/traceroute/files/traceroute/traceroute-2.0.21/">http://sourceforge.net/projects/traceroute/files/traceroute/traceroute-2.0.21/</a>	NO	Traceroute command line tool.
transmission-2.82	v2.82	MIT/X	Jordan Lee, Mnemosyne LLC, Mitchell Livingston, Digital Ignition LLC...	<a href="http://www.transmissionbt.com/">http://www.transmissionbt.com/</a>	YES	Transmission is a lightweight BitTorrent client. It features a simple, intuitive interface on top on an efficient, cross-platform back-end. Transmission runs on Mac OS X with a Cocoa interface, Linux/NetBSD/FreeBSD/OpenBSD with a GTK+ interface, and BeOS with a native interface.
transmission-web	NA	GPLv2	Dave Perrett, Malcolm Jarvis, Malcolm Jarvis, Mnemosyne LLC, Jordan Lee, Bruno Bierbaum, Scott Gonzalez, Jörn Zaefferer, Felix Nagel, Mike Sherov, Rafael Xavier de Souza	<a href="http://freecode.com/projects/transmission-web">http://freecode.com/projects/transmission-web</a>	NO	Transmission-web is a Web interface to transmission-daemon, a bitorrent client. It's lighter than the official one, but less feature packed. It was also developed for personal use before the official interface existed.
toolchain	v1.3.6 or v1.5.5	GPLv2	Realtek Semiconductor Corp.	<a href="http://gcc.gnu.org/">http://gcc.gnu.org/</a>		toolchain
ubus-2014-09-17	ubus-2014-09-17-4c4f35c2	GPLv2	Felix Fietkau <nd@openwrt.org>	<a href="http://nod.name/tu2/ubus.git">git://nod.name/tu2/ubus.git</a>	NO	The ubus is designed for providing communication between various daemons and applications.
udhcp-0.9.9-pre	v0.9.9	GPL v2	Russ Dill, Matthew Ramsay, Chris Trew	udhcp is now a drop-in component for busybox ( <a href="http://busybox.net">http://busybox.net</a> )	YES	The udhcp server/client package is primarily geared towards embedded systems. It does however, strive to be fully functional, and RFC compliant.
unfs3-0.9.22	v0.9.22	BSD License	Pascal Schmidt <unfs3-server@ewetel.net>	<a href="http://sourceforge.net/projects/unfs3/">http://sourceforge.net/projects/unfs3/</a>	YES	UNFS3 is a user-space implementation of the NFSv3 server specification. UNFS3 supports all NFSv3 procedures with the exception of the READDIRPLUS procedure. It tries to provide as much information to NFS clients as possible, within the limits possible from user-space.
updatedd-2.5	v2.5	GPL	Philipp Benner	<a href="http://updatedd.philipp-benner.de">http://updatedd.philipp-benner.de</a>	NO	UpdateDD is a command line tool that updates a dynamic DNS record.
uplimage	NA		Realtek Semiconductor Corp.			update image through HS tool
usb-modeswitch (symbolic link)			Realtek Semiconductor Corp.			usb-modeswitch -> usb-modeswitch-1.1.3
usb-modeswitch-1.1.3	v1.1.3	GPL v2	Josua Dietze	<a href="http://www.draisberghof.de/usb/">http://www.draisberghof.de/usb/</a>	YES	Handling Mode-Switching USB Devices on Linux
usb-modeswitch-data (symbolic link)			Realtek Semiconductor Corp.			usb-modeswitch-data -> usb-modeswitch-data-20100623
usb-modeswitch-data-20100623	v1.1.3	GPL v2	Josua Dietze	<a href="http://www.draisberghof.de/usb_modeswitch">http://www.draisberghof.de/usb_modeswitch</a>	YES	Handling Mode-Switching USB Devices on Linux

Open Source

usbmount	NA		Realtek Semiconductor Corp.			The USBmount Debian package automatically mounts USB mass storage devices (typically USB pens) when they are plugged in, and unmounts them when they are removed.
usbutils-0.86	v0.86	GPL v2	Thomas Sailer, Johannes Erdelt, David Brownell, Aurelien Jarno	<a href="http://sourceforge.net/projects/linux-usb/files/">http://sourceforge.net/projects/linux-usb/files/</a>	NO	The usbutils package contains a utility used to display information about USB buses in the system and the devices connected to them.
vstftpd-2.3.2	v2.3.2	GPL v2	Chris Evans	<a href="http://vstftpd.beasts.org/">http://vstftpd.beasts.org/</a>	NO	vstftpd is an FTP server, or daemon. The "vs" stands for Very Secure. Obviously this is not a guarantee, but a reflection that I have written the entire codebase with security in mind, and carefully designed the program to be resilient to attack.
wide-dhcpv6	wide-dhcpv6-20070507	Copyright (C) 1998-2004 WIDE Project.	WIDE Project	<a href="http://sourceforge.net/projects/wide-dhcpv6/">http://sourceforge.net/projects/wide-dhcpv6/</a>	NO	WIDE-DHCPv6 is an open-source implementation of Dynamic Host Configuration Protocol for IPv6 (DHCPv6) developed by the KAME project.
wireless_tools_25	v25	GPLv2	Jean Tourrilhes	<a href="http://www.hpl.hp.com/personal/Jean_Tourrilhes/Linux/Tools.html">http://www.hpl.hp.com/personal/Jean_Tourrilhes/Linux/Tools.html</a>	NO	This package contains the Wireless tools, used to manipulate the Wireless Extensions. The Wireless Extension is an interface allowing you to set Wireless LAN specific parameters and get the specific status.
wireless_tools_29	v29	GPLv2	Jean Tourrilhes	<a href="http://www.hpl.hp.com/personal/Jean_Tourrilhes/Linux/Tools.html">http://www.hpl.hp.com/personal/Jean_Tourrilhes/Linux/Tools.html</a>	NO	This package contains the Wireless tools, used to manipulate the Wireless Extensions. The Wireless Extension is an interface allowing you to set Wireless LAN specific parameters and get the specific status.
xz-5.0.8.tar.gz	v5.0.8	The most interesting parts of XZ Utils (e.g. liblzma) are in the public domain. You can do whatever you want with the public domain parts.  Some parts of XZ Utils (e.g. build system and some utilities) are under different free software licenses such as GNU LGPLv2.1, GNU GPLv2, or GNU GPLv3.	lasse.collin@tukaani.org	<a href="http://tukaani.org/xz/xz-5.0.8.tar.gz">http://tukaani.org/xz/xz-5.0.8.tar.gz</a>	no	XZ Utils is free general-purpose data compression software with a high compression ratio. XZ Utils were written for POSIX-like systems, but also work on some not-so-POSIX systems. XZ Utils are the successor to LZMA XZ Utils is free general-purpose data compression software with a high compression ratio. XZ Utils were written for POSIX-like systems, but also work on some not-so-POSIX systems. XZ Utils are the successor to LZMA Utils
zlib-1.2.5	v1.2.5	This software is provided 'as-is', without any express or implied warranty. In no event will the authors be held liable for any damages arising from the use of this software.  Permission is granted to anyone to use this software for any purpose, including commercial applications, and to alter it and redistribute it freely, subject to the following restrictions:	Jean-loup Gailly,Mark Adler	<a href="http://www.zlib.org">http://www.zlib.org</a>	NO	zlib 1.2.3 is a general purpose data compression library.
zlib-1.2.8	v1.2.8	This software is provided 'as-is', without any express or implied warranty. In no event will the authors be held liable for any damages arising from the use of this software.  Permission is granted to anyone to use this software for any purpose, including commercial applications, and to alter it and redistribute it freely, subject to the following restrictions:  1. The origin of this software must not be misrepresented; you must not claim that you wrote the original software. If you use this software in a product, an acknowledgment in the product documentation would be appreciated but is not required. 2. Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software. 3. This notice may not be removed or altered from any source distribution.	Jean-loup Gailly,Mark Adler	<a href="http://www.zlib.org">http://www.zlib.org</a>	NO	zlib 1.2.3 is a general purpose data compression library.
rtl_802.11	N/A	GPLv2 or later	Free Software Foundation, Inc.		yes	This is part of Bluetooth protocol stack for Linux, used to init realtek bluetooth chip