



MGA5331TCH

v21.4

Open Source Report

This document aims to describe the Open Source Software which are embedded in product
MGA5331TCH

Copyright © 2024 Vantiva Group (Connected Home Division of Vantiva Group – Vantiva Technologies SAS and/or Vantiva Connected Home USA, LLC). Do not re-distribute. All rights reserved. This document contains Vantiva Group – Connected Home proprietary information. Passing on, reproduction, copying, modification, use, extraction or communication to third parties (or to other than the addressee) of this document of any part thereof is strictly prohibited without written authorization from Vantiva Group – Connected Home

MGA5331TCH

Open Source Report

THE INFORMATION PROVIDED IN THIS DOCUMENTATION IS PROVIDED WITHOUT ANY WARRANTY, OR REPRESENTATION OF ANY KIND. THIS IS FOR INFORMATION PURPOSES ONLY.

THE RECIPIENT SHALL IN NO EVENT ASSUME THAT ANY INFORMATION OR ISSUE RELATING TO THE DELIVERABLES LISTED HEREUNDER ARE SUBJECT TO THE SAME ISSUES. AS AN EXAMPLE, SINCE PATCHES AND WORKAROUNDS MAY BE IN PLACE TO CIRCUMVENT KNOWN AND PUBLIC VULNERABILITIES, THIS REPORT CANNOT BE USED TO ANALYZE THE SECURITY STATUS OF THE PRODUCT SOFTWARE.

Product	MGA5331TCH
Version	v21.4
Open Source Modules	541

MGA5331TCH v21.4
Open Source Report



Module Name	Module Version	Module License
libjpeg	9c-2	MITlike
jquery-ui	1.10.1	MIT
libudns	0.4-1	LGPL-v2.1
packagegroup-qt5-recoveryfs	1.0	BSD-3-Clause
kmod-nls-utf8	4.19.115	GPL-v2
jshn	2020-02-27-7da66430de3fc235bfc6ebb0b85fb90ea246138d-1	ISC
zoneinfo-northamerica	2019c-1	GPL-v2
qcacl32-ll	git	ISC
libubus-lua	2022-06-01-2bebf93cd3343fe49f22a05ef935e460d2d44f67-1	LGPL-v2.1
keymaps	1.0	GPL-v2
systemd-machine-units-ubi	1.0	MIT
netifd	2020-04-14-cfccdc22ca6d8f28d70a2546a495c9ead4bbb765-3	GPL-v2
libcgroup-tch	0.41-1	LGPL-v2.1
nettle	3.5.1	GPL-v2
liblua	5.1.5-7	MIT
kmod-slhc	4.19.115	GPL-v2
xz	5.2.4	GPL-v2
libmincrypt	undisclosed	Apache-2.0
mmpbxfwctl	1.0	GPL-v2
agm-plugin-test	undisclosed	BSD
kmod-ipt-tproxy	4.19.115	GPL-v2
kmod-sit	4.19.115	GPL-v2
libmosquitto-ssl	1.6.9-1	BSDlike
kmod-ledtrig-netdev	4.19.115	GPL-v2
libcap	2.32	GPL-v2
systemd-machine-units-recovery	1.0	MIT
kmod-ledtrig-oneshot	4.19.115	GPL-v2
libexpat	2.2.9-1	MIT
libuci	2020-01-27-e8d83732f9eb571dce71aa915ff38a072579610b-3	LGPL-v2
libnetfilter-cthelper	1.0.0-2	GPL-v2
lede-keyring	2019-07-25-8080ef341b4180e40c4ae8ab63511ac6496f0ad1-1	GPL-v2
lxc-hooks	2.1.1-5	LGPL-v2.1
libstrophe	0.9.3-1	MIT
iptables-mod-skiplog	1.8.6-1	GPL-v2
gcc-runtime	9.3.0	GCC RUNTIME LIBRARY EXCEPTION v3.0
kmod-gre	4.19.115	GPL-v2
libidn2	2.3.0	GPL-v2
datarmnet	1.0	GPL-v2

MGA5331TCH v21.4
Open Source Report



Module Name	Module Version	Module License
zlib	1.2.11-3	zlib
kmod-macvlan	4.19.115	GPL-v2
zoneinfo-core	2019c-1	GPL-v2
mmc-utils	f4eb241519f8d500ce 6068a70d2389be39ac	GPL-v2
libunistring	0.9.10	GPL-v2
iptables	1.8.6-1	GPL-v2
shadow-expiry	4.8.1-1	BSDlike
lxc-init	2.1.1-5	LGPL-v2.1
xapi	1.0	BSD
pugixml	1.8	MIT
shadow-grpconv	4.8.1-1	BSDlike
kmod-nf-reject	4.19.115	GPL-v2
coreutils	6.9	GPL-v2
ebtables	2.0.10-4	GPL-v2
data-ipanat	undisclosed	BSD
shadow-utils	4.8.1-1	BSDlike
iptables-mod-tproxy	1.8.6-1	GPL-v2
linux-msm	5.4	GPL-v2
librt	undefined-2	GCC RUNTIME LIBRARY EXCEPTION v3.0
lxc	2.1.1-5	LGPL-v2.1
shadow-chgpasswd	4.8.1-1	BSDlike
libsolv	0.7.10	BSD-3-Clause
shadow-vipw	4.8.1-1	BSDlike
ca-certificates	20211016	GPL-v2
libopenssl	1.1.1i-1	OpenSSL
sndparser	git	BSD
location-api-msg-proto	git	BSD-3-Clause
mtd-utils	2.0.0	GPL-v2
curl	7.69.1	MIT
kmod-crypto-pcompress	4.19.115	GPL-v2
socat	1.7.3.4-1	GPL-2.0-with-openssl-exception
shadow-groupmems	4.8.1-1	BSDlike
opkg	2020-01-25-c09fe2098718807ddbca13ee36e3e38801822946-1	GPL-v2
kmod-nf-flow	4.19.115	GPL-v2
shadow-pwconv	4.8.1-1	BSDlike
lxc-templates	2.1.1-5	LGPL-v2.1
libusb-1.0	1.0.22-2	LGPL-v2.1
ifstat	1.1-1	GPL-v2
lxc-stop	2.1.1-5	LGPL-v2.1
odhcpd	2020-01-29	ClearBSD
gps-utils	undisclosed	BSD-3-Clause

MGA5331TCH v21.4
Open Source Report



Module Name	Module Version	Module License
uClibc	0.93.2	LGPL-v2
libfuse	2.9.7-2	LGPL-v2.1
ddns-scripts	2.7.8-17	GPL-v2
libgcc	9.3.0	GCC RUNTIME LIBRARY EXCEPTION v3.0
kmod-ipt-contrack-extra	4.19.115	GPL-v2
Accel-pptp	0.8.5	GPL-v2
luacurlv3	2018-11-04-11f39e347d7460edddb9a173ece49105f7eb86da-1	MIT
tinyalsa	git	BSD
libelf1	0.179-1	GPL-v2
libxml2	2.9.10	MIT
zlib	1.2.11	zlib
kmod-iptunnel	4.19.115	GPL-v2
iptables-mod-nat-extra	1.8.6-1	GPL-v2
bootmgr	1.0	BSD
libthread-db	undefined-2	GCC RUNTIME LIBRARY EXCEPTION v3.0
kmod-ikconfig	4.19.115	GPL-v2
libpcap	1.9.1	BSD-3-Clause
rtsp-alg	3.7	GPL-v2
kmod-usb-serial-qualcomm	4.19.115	GPL-v2
libarchive	3.4.2	BSD-2-Clause
opkg	0.4.2	GPL-v2
kmod-ip6tables	4.19.115	GPL-v2
kmod-pppoe	4.19.115	GPL-v2
dnsmasq	1.0	GPL-v2
ppp-mod-connstate	2.4.8.git-2020-03-21-2	BSDlike
wireless-tools	git	BSD-3-Clause
ubusd	2022-06-01-2bebf93cd3343fe49f22a05ef935e460d2d44f67-1	LGPL-v2.1
watchdog	5.13	GPL-v2
libsync	undisclosed	Apache-2.0
libhardware	undisclosed	Apache-2.0
audio-route	undisclosed	Apache-2.0
dropbear	2019.78-4	MITlike
map-t	4-13	GPL-v2
sdcard-scripts-automount	1.0	BSD-3-Clause
kmod-usb-acm	4.19.115	GPL-v2
technicolor-button-userspace	1.0	GPL-v2
wlan-conf	git	ISC
mountd	2018-01-04-4fe9c42055deba0a134dd298a5b5388a38fb1047	GPL-v2
kmod-fuse	4.19.115	GPL-v2
wpa-supPLICANT-qcaclD-ks3	git	BSD

MGA5331TCH v21.4
Open Source Report



Module Name	Module Version	Module License
pal	git	BSD
lxc-destroy	2.1.1-5	LGPL-v2.1
resolveip	2	GPL-v2
kmod-technicolor-led	4.19.115+1.0	GPL-v2
libsqlite3	3310100-1	Blessing
kmod-nf-contrack	4.19.115	GPL-v2
iwinfo	2020-03-22-9f5a7c4f9b78cb2de8fe5dd7af55bf0221706402-1	GPL-v2
uclient-fetch	2020-02-15-af585dbd1d444faafa370a73c1db43aee731f85-1	ISC
ethtool	5.4	GPL-v2
shadow-newgidmap	4.8.1-1	BSDlike
ppp-mod-pppoe-brcm	2.4.8.git-2020-03-21-2	BSDlike
Kernel	4.19.151	GPL-v2
acl	2.2.53	LGPL-v2.1
libion	undisclosed	Apache-2.0
kmod-nfnetlink-queue	4.19.115	GPL-v2
iptables-mod-contrack-extra	1.8.6-1	GPL-v2
libiwinfo	2020-03-22-9f5a7c4f9b78cb2de8fe5dd7af55bf0221706402-1	GPL-v2
shadow-newuidmap	4.8.1-1	BSDlike
agmplugin	undisclosed	BSD
json-c	0.13.1	MIT
zoneinfo-europe	2019c-1	GPL-v2
shadow-securetty	4.6	MIT
firewall	2019-11-22-8174814a507489ebbe8bb85c1004e1f02919ca82-1	ISC
lua-signal	1.2.1	MIT
kmod-button-hotplug	4.19.115-3	GPL-v2
shadow	4.8.1-1	BSDlike
lzo	2.10	GPL-v2
lxc-ls	2.1.1-5	LGPL-v2.1
kmod-ipt-raw6	4.19.115	GPL-v2
uci	2020-01-27-e8d83732f9eb571dce71aa915ff38a072579610b-3	LGPL-v2
libnetsmp	5.8-1	BSDlike
ipset-helper-tch	1.0-1	GPL-v2
libnetfilter-cttimeout	1.0.0-2	GPL-v2
libjson-script	2020-02-27-7da66430de3fc235bfc6ebb0b85fb90ea246138d-1	ISC
libmnl	1.0.4-2	LGPL-v2.1
luacurl	20140909-1	MIT
liblog	1.0	Apache-2.0
LXC – Linux Containers	3.1.0	GPL-v2

MGA5331TCH v21.4
Open Source Report



Module Name	Module Version	Module License
rpcd-mod-file	2020-01-05-efe51f41d6288fa8503cc4f2efb37a777767d505-2	ISC
kmod-crypto-hmac	4.19.115	GPL-v2
flock	2.35.1-1	GPL-v2
kmod-ncr	4.19.115+0.2-tch	GPL-v2
zlog	1.0	LGPL-v2
rpcd-mod-iwinfo	2020-01-05-efe51f41d6288fa8503cc4f2efb37a777767d505-2	ISC
kmod-lib-crc16	4.19.115	GPL-v2
Libfdt	1.5.1	GPL-v2
base-passwd	3.5.29	GPL-v2
6to4	12-2	GPL-v2
zoneinfo-southamerica	2019c-1	GPL-v2
opkg-utils	0.4.2	GPL-v2
kmod-cryptodev	4.19.115+1.10--2	GPL-v2
libpcre	8.44	BSD-3-Clause
picocom	3.1-4	GPL-v2
kmod-ipt-iprange	4.19.115	GPL-v2
shadow-chage	4.8.1-1	BSDlike
sec-config	1.0	BSD-3-Clause
loc-core	git	BSD-3-Clause
libnfnetwork	1.0.1	GPL-v2
ppp-mod-passwordfd	2.4.8.git-2020-03-21-2	BSDlike
iptables-mod-length2	3.13-1	GPL-v2
adbd	undisclosed	Apache-2.0
libubus	2022-06-01-2bebf93cd3343fe49f22a05ef935e460d2d44f67-1	LGPL-v2.1
iproute2	5.5.0	GPL-v2
ppp	2.4.7	BSD
wlan-sigma-dut	git	BSD-3-Clause
tcpdump	4.9.3-1	BSD
libip4tc	1.8.6-1	GPL-v2
kmod-ipt-contrack	4.19.115	GPL-v2
ppp-mod-pppoe	2.4.8.git-2020-03-21-2	BSDlike
kmod-ipt-hashlimit	4.19.115	GPL-v2
kmod-asn1-decoder	4.19.115	GPL-v2
kmod-l2tp	4.19.115	GPL-v2
librt	2.41.1	GCC RUNTIME LIBRARY EXCEPTION v3.0
sfe	git	ISC
terminfo	6.2-1	MIT
shadow-newusers	4.8.1-1	BSDlike
libtirpc	1.2.5-2	BSD-3-Clause
shadow-lastlog	4.8.1-1	BSDlike

MGA5331TCH v21.4
Open Source Report



Module Name	Module Version	Module License
libpcap	1.9.1-2	BSD
libelf	0.179-1	GPL-v2
libcutils	undisclosed	Apache-2.0
libpci	3.6.4-1	GPL-v2
shadow-userdel	4.8.1-1	BSDlike
ubi-utils	2.1.1-1	GPL-v2
kmod-ipt-nat	4.19.115	GPL-v2
transformer-tch	1.0	ClearBSD
map	4-13	GPL-v2
wget	1.20.3	GPL-v2
systemd-conf	244.3	MIT
miniupnpd-tch	1.8	BSD
kmod-technicolor-button	4.19.115+1.0	GPL-v2
libip6tc	1.8.6-1	GPL-v2
location-api	git	BSD-3-Clause
lua-tch	1.3	ClearBSD
contrack	1.4.6-1	GPL-v2
libjson-c	0.13.1-1	MIT
run-postinsts	1.0	MIT
zoneinfo-australia-nz	2019c-1	GPL-v2
dnsmasq-full	2.83-1	GPL-v2
libnet-1.2.x	1.2-rc3-4	GPL-v2
libxml2	2.9.10-1	MIT
grev6	1-12	GPL-v2
kmod-pppox	4.19.115	GPL-v2
ext4-utils	undisclosed	Apache-2.0
libipset	7.4-1	GPL-v2
libc	undefined-2	GCC RUNTIME LIBRARY EXCEPTION v3.0
shadow-gpasswd	4.8.1-1	BSDlike
ip-full	5.6.0-1	GPL-v2
shadow-groupmod	4.8.1-1	BSDlike
ianatzdata	2019a	BSD-3-Clause
kmod-quectel-qmiwwanq	4.19.115+1.0	GPL-v2
Libpopt	1.16	BSD
shadow-passwd	4.8.1-1	BSDlike
webui-common	1.0	MIT
libmosquitto	1.6.9-1	BSDlike
hostap-daemon-qcacl-d-ks3	undisclosed	BSD
tcpdump	4.1.1	BSD
dnsmasq	2.83-1	GPL-v2
procd	2020-04-19-d200b70e5d5b0b3b61e2573f1c2fa22b3fa9d63a-1	GPL-v2

MGA5331TCH v21.4
Open Source Report



Module Name	Module Version	Module License
464xlat	12	GPL-v2
kmod-crypto-ecb	4.19.115	GPL-v2
libnetfilter-contrack	1.0.9	GPL-v2
iptables-mod-trace	1.8.6-1	GPL-v2
kmod-ipt-offload	4.19.115	GPL-v2
kmod-ipt-core	4.19.115	GPL-v2
curl	7.69.1-1	MITlike
libnetfilter-queue	1.0.5-4	GPL-v2
kmod-ipt-raw	4.19.115	GPL-v2
kmod-lib-crc-ccitt	4.19.115	GPL-v2
systemd-serialgetty	1.0	GPL-v2
pimd	git	BSD
libpcre	8.43-2	BSD
ARM Trusted Firmware	1.4	BSD-3-Clause
shadow-pwunconv	4.8.1-1	BSDlike
kmod-input-core	4.19.115	GPL-v2
fstools	2020-01-21-deb745f82b93b3bd12273cfb16 deb7417fc555ef-1	GPL-v2
kmod-usb-net-qmi-wwan	4.19.115	GPL-v2
ip	5.6.0-1	GPL-v2
ubox	2019-12-31-0e34af143373126fc62b43612233 a158694ec643-3	GPL-v2
shadow-groups	4.8.1-1	BSDlike
kmod-ledtrig-default-on	4.19.115	GPL-v2
gre	1-12	GPL-v2
kmod-nat46	4.19.115+2017-05-12-683fbd2b765506332a1 af141545652bf58f03166	GPL-v2
libutils	git	Apache-2.0
tinycmpress	git	BSD
lua-lzlib	0.4.3-1	MIT
init-mss	undisclosed	BSD
dhcpcd	8.1.6	BSD-2-Clause
zoneinfo-india	2019c-1	GPL-v2
libnl-tiny	2019-10-29-0219008cc8767655d7e747497e8 e1133a3e8f840-1	LGPL-v2.1
kmod-crypto-sha256	4.19.115	GPL-v2
ppp-mod-pppol2tp	2.4.8.git-2020-03-21-2	BSDlike
kmod-nls-base	4.19.115	GPL-v2
wget	2020-02-15-af585dbd1d444faafa370a73c1db4 3aece731f85-1	ISC
lxc-start	2.1.1-5	LGPL-v2.1
systemd-machine-units-ext4	1.0	MIT
zoneinfo-atlantic	2019c-1	GPL-v2
libcap	2.33-2	BSD-3-Clause

MGA5331TCH v21.4
Open Source Report



Module Name	Module Version	Module License
Mtd	2.0.2	GPL-v2
libubox	2020-02-27-7da66430de3fc235bfc6ebb0b85fb90ea246138d-1	ISC
kmod-ipt-nat-extra	4.19.115	GPL-v2
kmod-usb-wdm	4.19.115	GPL-v2
shadow-useradd	4.8.1-1	BSDlike
shadow	4.8.1	BSD
kmod-fs-autofs4	4.19.115	GPL-v2
kmod-lib-textsearch	4.19.115	GPL-v2
ppp	2.4.8.git-2020-03-21-2	BSDlike
location-geofence	git	BSD-3-Clause
data-ipa-cfg-mgr	undisclosed	BSD
ncurses	6.2	MIT
libmnl	1.0.4	LGPL-v2.1
kmod-ipt-nathelper-rtsp	4.19.115+3.13-1	GPL-v2
kmod-ipt-compat-xtables	4.19.115+3.13-1	GPL-v2
nginx	1.17.9-1	BSD
systemd-compat-units	1.0	MIT
kmod-mii	4.19.115	GPL-v2
libpthread	2.41.1	GCC RUNTIME LIBRARY EXCEPTION v3.0
i2c-tools	4	GPL-v2
kmod-ebtables	4.19.115	GPL-v2
protobuf	3.11.4	BSD-3-Clause
shadow-chpasswd	4.8.1-1	BSDlike
kmod-ipt-ipopt	4.19.115	GPL-v2
libiwinfo-lua	2020-03-22-9f5a7c4f9b78cb2de8fe5dd7af55bf0221706402-1	GPL-v2
reboot-daemon	1.0	BSD
kmod-ip6-tunnel	4.19.115	GPL-v2
glibc	2.31+gitAUTOINC+4f0a61f753	GPL-v2
ddns-scripts_no-ip_com	2.7.8-17	GPL-v2
elfutils	0.178	GPL-v2
location-integration-api	git	BSD-3-Clause
libnetfilter-cthelper	1.0.0	GPL-v2
kmod-iptunnel6	4.19.115	GPL-v2
location-client-api-testapp	git	BSD-3-Clause
libdl	2.41.1	GCC RUNTIME LIBRARY EXCEPTION v3.0
kmod-ledtrig-gpio	4.19.115	GPL-v2
bzip2	1.0.8	bzip2-1.0.6
iptables-mod-blog	1.8.6-1	GPL-v2
odhcp6c	2020-03-28-f575351cbb3defc0bf52680c9082912a6c264374-16	GPL-v2
kmod-udptunnel4	4.19.115	GPL-v2

MGA5331TCH v21.4
Open Source Report



Module Name	Module Version	Module License
systemd	244.5	GPL-v2
kmod-veth	4.19.115	GPL-v2
dbus	1.12.20	GPL-v2
kmod-leds-gpio	4.19.115	GPL-v2
preloader-tch	1.0	BSD
libsparse	undisclosed	Apache-2.0
6in4	25-1	GPL-v2
base-files	3.0.14	GPL-v2
transformer-cli-tch	1.0	ClearBSD
shadow-nologin	4.8.1-1	BSDlike
packagegroup-base	1.0	MIT
iw	5.4	BSD-2-Clause
libcares	1.15.0-4	MIT
ca-bundle	20190110-2	GPL-v2
Ethtool	5.4	GPL-v2
zoneinfo-simple	2019c-1	GPL-v2
tc	5.6.0-1	GPL-v2
iptables-mod-filter	1.8.6-1	GPL-v2
libuv	1.34.2-1	MIT
kmod-crypto-cbc	4.19.115	GPL-v2
kmod-nf-nathelper	4.19.115	GPL-v2
kmod-crypto-null	4.19.115	GPL-v2
zoneinfo-africa	2019c-1	GPL-v2
data-oss	undisclosed	BSD
libncurses	6.2-1	MIT
shadow-faillog	4.8.1-1	BSDlike
zonedetect	1.0	BSD-3-Clause
bind	9.11.35	ISC
iptables-mod-ipopt	1.8.6-1	GPL-v2
kmod-crypto-crc32c	4.19.115	GPL-v2
kmod-udptunnel6	4.19.115	GPL-v2
gcc	2.3	GCC RUNTIME LIBRARY EXCEPTION v3.0
kmod-gre6	4.19.115	GPL-v2
logwrapper	git	Apache-2.0
kmod-ipt-filter	4.19.115	GPL-v2
kmod-ipt-rpfilter	4.19.115	GPL-v2
attr	2.4.48	LGPL-v2.1
NDisc6	1.0.4	GPL-v2
zoneinfo-pacific	2019c-1	GPL-v2
ipset-dns	2017-10-08-ade2cf88e933f4f90451e0a6171f0aa4a523f989-1	GPL-v2

MGA5331TCH v21.4
Open Source Report



Module Name	Module Version	Module License
jsonfilter	2018-02-04-c7e938d6582a436dddc938539e72dd1320625c54-1	ISC
webui-core	1.0	SIL OFL 1.1, Apache-2.0, MIT
shadow-usermod	4.8.1-1	BSDlike
libseccomp	2.4.2-2	LGPL-v2.1
conntrack-tools	1.4.6	GPL-v2
kmod-ppp	4.19.115	GPL-v2
kmod-usb-serial-option	4.19.115	GPL-v2
libnetfilter-conntrack	1.0.8-1	GPL-v2
busybox	1.31.1	GPL-v2
libubox-lua	2020-02-27-7da66430de3fc235bfc6ebb0b85fb90ea246138d-1	ISC
shadow-logoutd	4.8.1-1	BSDlike
kmod-input-polldev	4.19.115	GPL-v2
shared-mime-info	1.15	GPL-v2
lua-dkjson	1.0-1	MIT
libblobmsg-json	2020-02-27-7da66430de3fc235bfc6ebb0b85fb90ea246138d-1	ISC
agm-client	undisclosed	BSD
miniupnpd-tch-igd2	1.8	BSD
Libuuid	1.0.3	BSD
libuuid	2.35.1-1	BSDlike
lxc-attach	2.1.1-5	LGPL-v2.1
linenoise	1.0	MIT
kmod-crypto-manager	4.19.115	GPL-v2
ebtables	2018-06-27-48cff25dfea5b37e16ba5dc6601e98ab140f5f99-1	GPL-v2
rpcd	2020-01-05-efe51f41d6288fa8503cc4f2efb37a777767d505-2	ISC
netbase	6.1	GPL-v2
kmod-sched-core	4.19.115	GPL-v2
luafilesystem	1.7.0.2-1	MITlike
ipset	7.4-1	GPL-v2
libffi	3.3	MIT
loc-socket	git	BSD-3-Clause
location-batching	git	BSD-3-Clause
libncursesw	6.2-1	MIT
location-client-api	git	BSD-3-Clause
zoneinfo-poles	2019c-1	GPL-v2
kmod-usb-core	4.19.115	GPL-v2
odhcpd-ipv6only	2020-03-14-6594c6b182a9065570316cf3a7a6a72a7afda150-3	GPL-v2
location-qapi	git	BSD-3-Clause
libbase	undisclosed	Apache-2.0
systemd-machine-units	1.0	MIT

MGA5331TCH v21.4
Open Source Report



Module Name	Module Version	Module License
kmod-ipt-nfqueue	4.19.115	GPL-v2
kmod-crypto-authenc	4.19.115	GPL-v2
shadow-pwck	4.8.1-1	BSDlike
readline	5.2	GPL-v2
libnfnetlink	1.0.1-3	GPL-v2
volatile-binds	1.0	MIT
kmod-ipt-ipset	4.19.115	GPL-v2
ripdrv	1	GPL-v2
agm	undisclosed	BSD
libgcc	8.4.0-2	GCC RUNTIME LIBRARY EXCEPTION v3.0
mwan	4.1	GPL-v2
libcurl	7.69.1-1	MITlike
jquery	1.9.1	MIT
openssl	1.1.1l	OpenSSL
e2fsprogs	1.45.7	GPL-v2
iptables-mod-hashlimit	1.8.6-1	GPL-v2
libflac	1.3.3-1	BSDlike
util-linux	2.35.1	GPL-v2
sqlite3	0.9.5-1	MIT
libxcrypt	4.4.15	LGPL-v2.1
zoneinfo-all	2019c-1	GPL-v2
kmod-nf-reject6	4.19.115	GPL-v2
kmod-ledtrig-timer	4.19.115	GPL-v2
shadow-su	4.8.1-1	BSDlike
kmod-modmmswitch	4.19.115+2012.09	GPL-v2
kmod-pppol2tp	4.19.115	GPL-v2
grev4	1-12	GPL-v2
lsnf	4.91-1	lsnf
busybox	1.31.1-1	GPL-v2
kmod-nf-contrack-netlink	4.19.115	GPL-v2
kmod-nfnfnetlink	4.19.115	GPL-v2
iptables	1.8.4	GPL-v2
kmod-usb-serial-wwan	4.19.115	GPL-v2
unzip	6.0	BSD-3-Clause
shadow-grpck	4.8.1-1	BSDlike
kmod-crypto-aead	4.19.115	GPL-v2
iputils	s20190709	BSD
ca-certs	20190110-2	GPL-v2
shadow-groupdel	4.8.1-1	BSDlike
kmod-input-gpio-keys-polled	4.19.115	GPL-v2
mcs	git	BSD

MGA5331TCH v21.4
Open Source Report



Module Name	Module Version	Module License
ppp-mod-varholdoff	2.4.8.git-2020-03-21-2	BSDlike
libm	2.41.1	GCC RUNTIME LIBRARY EXCEPTION v3.0
libpthread	undefined-2	GCC RUNTIME LIBRARY EXCEPTION v3.0
iptables-mod-iprange	1.8.6-1	GPL-v2
ubus	2022-06-01-2bebf93cd3343fe49f22a05ef935e460d2d44f67-1	LGPL-v2.1
fwtool	2019-11-12-8f7fe925ca205c8e8e2d0d1b16218c1e148d5173-1	GPL-v2
kmod-crypto-hash	4.19.115	GPL-v2
u-boot	v2019.07	GPL-v2
libxtables	1.8.6-1	GPL-v2
getrandom	2019-12-31-0e34af143373126fc62b43612233a158694ec643-3	GPL-v2
libstdcpp	8.4.0-2	GCC RUNTIME LIBRARY EXCEPTION v3.0
loc-api-v02	git	BSD-3-Clause
libnl	3.5.0	LGPL-v2.1
recovery	git	Apache-2.0
os-release	1.0	MIT
libgcrypt	1.8.5	GPL-v2
packagegroup-core-boot	1.0	MIT
ds-lite	7-4	GPL-v2
libubox	2020-02-27-7da66430	ISC
libuclient	2020-02-15-af585dbd1d444faafa370a73c1db43aeece731f85-1	ISC
lxc-create	2.1.1-5	LGPL-v2.1
lua-penlight	1.7.0-1	MIT
liburcu	0.11.1-1	BSDlike
openl2tpd	1.6	GPL-v2
kbd	2.2.0	GPL-v2
qfirehose	1.2-5	PublicDomain - Quectel Proprietary License
kmod-usb-net	4.19.115	GPL-v2
opkg-arch-config	1.0	MIT
shadow-grpunconv	4.8.1-1	BSDlike
fsmgr	git	Apache-2.0
qosmngr	1.0.0	GPL-v2
libsystemdq	1.0	LGPL-v2.1
kmod-iptunnel4	4.19.115	GPL-v2
kmod-fs-ext4	4.19.115	GPL-v2
gmp	6.2.0	GPL-v2
libnetfilter-cttimeout	1.0.0	GPL-v2
libexif	0.6.21-1	LGPL-v2.1
luasocket	2019-04-21-733af884f1aa18ff469bf3c4d18810e815853211-1	MITlike
usb-modeswitch	2017-12-19-f40f84c27534159066c94dad0c08e0b255c3e26-2	GPL-v2

MGA5331TCH v21.4
Open Source Report



Module Name	Module Version	Module License
audiohal	1.0	BSD
lxc-common	2.1.1-5	LGPL-v2.1
nginx-ssl-util-nopcre	1.3-2	BSD
openwrt-keyring	2019-07-25-8080ef341b4180e40c4ae8ab63511ac6496f0ad1-1	GPL-v2
ld-linux	2.41.1	GCC RUNTIME LIBRARY EXCEPTION v3.0
kmod-ripdrv	4.19.115+2014.01	GPL-v2
kmod-nf-contrack6	4.19.115	GPL-v2
shadow-newgrp	4.8.1-1	BSDlike
agm-server	undisclosed	BSD
luabitop	1.0.2-1	MIT
iptables-mod-extra	1.8.6-1	GPL-v2
shadow-chsh	4.8.1-1	BSDlike
kmod	26	LGPL-v2
shadow-common	4.8.1-1	BSDlike
rbtree	3.0.5	BSDlike
libparsifal	1.1.0-0	BSD
urandom-seed	1.0-1	GPL-v2
expat	2.2.9	MIT
wpa-supPLICANT-8-lib	git	BSD-3-Clause
lua	5.1.5-7	MIT
qahw	git	BSD
liblxc	2.1.1-5	LGPL-v2.1
iptables-mod-nfqueue	1.8.6-1	GPL-v2
shadow-groupadd	4.8.1-1	BSDlike
kmod-nf-nathelper-extra	4.19.115	GPL-v2
libnetfilter-queue	1.0.3	GPL-v2
conf-ipset	1.0	GPL-v2
kmod-ipt-length2	4.19.115+3.13-1	GPL-v2
kmod-nf-ipt6	4.19.115	GPL-v2
wol-tch	0.7.1	GPL-v2
ip6tables	1.8.6-1	GPL-v2
mtd	25	GPL-v2
location-hal-daemon	git	BSD-3-Clause
zoneinfo-asia	2019c-1	GPL-v2
kmod-nf-nat	4.19.115	GPL-v2
libgpg-error	1.37	GPL-v2
gsb	undisclosed	GPL-v2
base-files	218-r13191-d6634c2579	GPL-v2
kmod-ipt-debug	4.19.115	GPL-v2
dnsmasq	2.81	GPL-v2
kmod-nf-ipt	4.19.115	GPL-v2

MGA5331TCH v21.4
Open Source Report



Module Name	Module Version	Module License
gnutls	3.6.14	GPL-v2
kmod-ipt-extra	4.19.115	GPL-v2
libi2c	4	GPL-v2
glib-2.0	2.62.6	LGPL-v2.1
logd	2019-12-31-0e34af143373126fc62b43612233a158694ec643-3	GPL-v2
kmod-platform-gpl	4.19.115+1.0	GPL-v2
kmod-crypto-rng	4.19.115	GPL-v2
miniupnpd-tch-igd1	1.8	BSD
usign	2019-09-21-f34a383eeed6282fa16fb021157a60c75f33fdcd-1	ISC
locationdb	1.0	MIT
iptables-mod-rpfilter	1.8.6-1	GPL-v2
bash	3.2.57	GPL-v2
urngd	2020-01-21-c7f7b6b65b82eda4675b42d8cd28d76ea7aebf1a-1	GPL-v2, BSD-3-Clause
init-audio	undisclosed	BSD
kmod-crypto-seqiv	4.19.115	GPL-v2
Radvd	1.8	BSD
glibc	2.41.1	LGPL-v2
shadow-chfn	4.8.1-1	BSDlike
shadow-login	4.8.1-1	BSDlike
lxc-configs	2.1.1-5	LGPL-v2.1
xinetd	2.3.15-5	MITlike
kmod-usb-serial	4.19.115	GPL-v2
6rd	9-4	GPL-v2
udns-dnsget	0.4-1	LGPL-v2.1