



**FGA2232CLB**

**v19.3.533**

## **Open Source Report**

This document aims to describe the Open Source Software which are embedded in product  
FGA2232CLB

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# FGA2232CLB

## Open Source Report

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<b>Product</b>	FGA2232CLB
<b>Version</b>	v19.3.533
<b>Open Source Modules</b>	383

## Open Source Report

Module Name	Module Version	Module License
libpcap	1.9.0-2	BSD
libiconv-full	1.11.1-4	LGPL-v2
kmod-usb-net-rndis	4.1	GPL-v2
xapi	1.0	BSD
libspeex	1.2.0-1	BSDlike
wwan	2014-07-17-1	GPL-v2
libbz2	1.0.6-5	BSDlike
kmod-crypto-acompress	4.1	GPL-v2
kmod-mii	4.1	GPL-v2
kmod-gre	4.1	GPL-v2
map-t	4-13	GPL-v2
resolveip	2	GPL-v2
map	4-13	GPL-v2
6in4	25-1	GPL-v2
kmod-ikconfig	4.1	GPL-v2
kmod-usb-net	4.1	GPL-v2
preloader	1.0	BSD
kmod-bankmgr	4.1+1.0	GPL-v2
miniupnpd	1.0	BSD
libelf	0.176-2	LGPL-v2
ppp-mod-varholdoff	2.4.7-2019-05-25-2	BSDlike
zoneinfo-northamerica	2019a-1	GPL-v2
kmod-ip6tables	4.1	GPL-v2
kmod-bcm6xxx-ipt-skiplog	4.1	GPL-v2
uci	2019-05-17-f199b961c2970b63cc83947ad49b327b3f48f05f-3	LGPL-v2
liburcu	0.9.5-1	BSDlike
libjson-script	2019-02-27-eeef7b50a06bc3c3218d560b4b513b4e7b19127f-1	ISC
grev6	1-11	GPL-v2
ipset-helper	1.0-1	GPL-v2
luacurlv3	2018-11-04-11f39e347d7460edddb9a173ece49105f7eb86da-1	MIT
kmod-ebtables	4.1	GPL-v2
gre	1-11	GPL-v2
kmod-bcm6xxx-enet	4.1	GPL-v2
libnfnetlink	1.0.1-2	GPL-v2
kmod-input-core	4.1	GPL-v2
kmod-crypto-ecb	4.1	GPL-v2
lua-atchannel	0.1-b8b20b12a34a1e4ed746f5322aa96ed962b10666	Apache-2.0
libdnscp	2.0	Apache-2.0
kmod-ipt-rpfilter	4.1	GPL-v2

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Module Name	Module Version	Module License
ubus	2018-10-06-221ce7e7ff1bd1a0c9995fa9d32f58e865f7207f-1	LGPL-v2.1
ubusd	2018-10-06-221ce7e7ff1bd1a0c9995fa9d32f58e865f7207f-1	LGPL-v2.1
libudns	0.4-1	LGPL-v2.1
tc	5.0.0-1	GPL-v2
iptables-mod-extra	1.8.2-3	GPL-v2
liblxc	2.1.1-3	LGPL-v2.1
kmod-crypto-deflate	4.1	GPL-v2
kmod-iptunnel	4.1	GPL-v2
libgcc	5.5.0-1	GCC RUNTIME LIBRARY EXCEPTION v3.0
base-files	197	GPL-v2
transformer-cli	1.0	ClearBSD
kmod-usb-printer	4.1	GPL-v2
iptables-mod-rpfilter	1.8.2-3	GPL-v2
lxc-ls	2.1.1-3	LGPL-v2.1
libtirpc	1.1.4-1	BSD-3-Clause
libsqlite3	3270200-2	Blessing
ubox	2019-04-07-5130fa4d9c5d15d643506f906927b209d7690a83-1	GPL-v2
kmod-ipt-compat-xtables	4.1+2.14-8	GPL-v2
kmod-bcm6xxx-rdpa-usr	4.1	GPL-v2
kmod-crypto-rng	4.1	GPL-v2
kmod-usb-acm	4.1	GPL-v2
kmod-crypto-aead	4.1	GPL-v2
kmod-fs-autofs4	4.1	GPL-v2
libmosquitto-wifisrv	1.5-3	BSDlike
dnsmasq-full	2.83-2	GPL-v2
kmod-bcm963xx-wdt	4.1	GPL-v2
luacurl	20140909-1	MIT
kmod-bcm6xxx-runner-br	4.1	GPL-v2
kmod-ipt-nfqueue	4.1	GPL-v2
ipip	1-3	GPL-v2
libuclient	2019-05-30-3b3e368dead01979e985cb167873fe9868b15d19-1	ISC
kmod-nf-nat	4.1	GPL-v2
kmod-ipt-nat-extra	4.1	GPL-v2
libxtables	1.8.2-3	GPL-v2
464xlat	12	GPL-v2
kmod-fuse	4.1	GPL-v2
ip6tables	1.8.2-3	GPL-v2
iptables	1.8.2-3	GPL-v2
webui-core	1.0	SIL OFL 1.1, Apache-2.0, MIT

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Module Name	Module Version	Module License
kmod-ppp	4.1	GPL-v2
libnetfilter-cttimeout	1.0.0-2	GPL-v2
libubox-lua	2019-02-27-eeef7b50a06bc3c3218d560b4b513b4e7b19127f-1	ISC
mwan	4.1	GPL-v2
fwtool	1	GPL-v2
kmod-usb-wdm	4.1	GPL-v2
kmod-bcm6xxx-rdpa-gpl-ext	4.1	GPL-v2
webui-lang	1.0	SIL OFL 1.1, Apache-2.0, MIT
lua-lzlib	0.4.3-1	MIT
multiap_libplatform	1.0	BSD-2-Clause-Patent
kmod-crypto-sha256	4.1	GPL-v2
kmod-platform-gpl	4.1+1.0	GPL-v2
kmod-nf-flow	4.1	GPL-v2
kmod-macvlan	4.1	GPL-v2
odhcpd	2019-05-17-41a74cba1bec349d1e1c5be4442e7fddb2d4adf7-3	GPL-v2
kmod-crypto-echainiv	4.1	GPL-v2
bridge	1.6-1	GPL-v2
iptables-mod-nat-extra	1.8.2-3	GPL-v2
kmod-ledtrig-default-on	4.1	GPL-v2
kmod-bcm6xxx-opticaldet	4.1	GPL-v2
kmod-ipt-contrack	4.1	GPL-v2
kmod-ipt-filter	4.1	GPL-v2
libsodium	1.0.17-1	ISC
chat	2.4.7	BSDlike
libcares	1.15.0-4	MIT
netifd	2019-06-03-1dbf0dcb3a04ff959c6d87725488664d34298319-2	GPL-v2
ipset	7.1-3	GPL-v2
zoneinfo-india	2019a-1	GPL-v2
kmod-crypto-pcompress	4.1	GPL-v2
kmod-leds-gpio	4.1	GPL-v2
lua	5.1.5-3	MIT
kmod-usb-net-cdc-ncm	4.1	GPL-v2
libogg	1.3.3-1	BSDlike
luabitop	1.0.2-1	MIT
kmod-br-netfilter	4.1	GPL-v2
kmod-ipt-iprange	4.1	GPL-v2
kmod-technicolor-led	4.1+1.0	GPL-v2
iptables-mod-hashlimit	1.8.2-3	GPL-v2
lua-dkjson	1.0-1	MIT
libubus	2018-10-06-221ce7e7ff1bd1a0c9995fa9d32f58	LGPL-v2.1

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Module Name	Module Version	Module License
	e865f7207f-1	
lxc-common	2.1.1-3	LGPL-v2.1
kmod-afb	4.1	GPL-v2
wlan	V1.9.0-g51615cfd5337747fd5b764875991e533082d589f	BSD
kmod-usb-serial	4.1	GPL-v2
kmod-crypto-cbc	4.1	GPL-v2
kmod-nf-ipt	4.1	GPL-v2
kmod-lib-zlib-inflate	4.1	GPL-v2
nginx	1.16.0-1	BSD
libuuid	2.33-2	BSDlike
fstools	2019-03-28	GPL-v2
kmod-bcm6xxx-bcm_i2c	4.1	GPL-v2
iptables-mod-filter	1.8.2-3	GPL-v2
kmod-bcm6xxx-rdpa-gpl	4.1	GPL-v2
kmod-gre6	4.1	GPL-v2
ds-lite	7-4	GPL-v2
libopenssl	1.0.2q-1	OpenSSL
lxc-init	2.1.1-3	LGPL-v2.1
kmod-cryptodev	4.1	GPL-v2
kmod-crypto-iv	4.1	GPL-v2
kmod-crypto-crc32c	4.1	GPL-v2
libip4tc	1.8.2-3	GPL-v2
kmod-pppox	4.1	GPL-v2
contrack	1.4.5	GPL-v2
uclibcxx	0.2.5-1	LGPL-v2.1
iptables-mod-nfqueue	1.8.2-3	GPL-v2
libpng	1.6.37-1	libpng
zoneinfo-atlantic	2019a-1	GPL-v2
lxc-configs	2.1.1-3	LGPL-v2.1
mosquitto	1.6.2-1	BSDlike
grev4	1-11	GPL-v2
opkg	2019-01-31-d4ba162bb3f931bd5a019154270a548cf1f0853b-1	GPL-v2
ca-bundle	20190110	GPL-v2
zoneinfo-pacific	2019a-1	GPL-v2
zlib	1.2.11-3	zlib
procd	2019-05-30-ade00ca585a49c8478bf60eb24ce385676be37a4-1	GPL-v2
ieee1905_wt382	1.0	BSD-3-Clause
odhcp6c	2019-01-11-d2e247d8d87ecf8c60fc0acdad05667bd379521-16	GPL-v2
kmod-sched-core	4.1	GPL-v2

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Module Name	Module Version	Module License
kmod-nls-utf8	4.1	GPL-v2
uclient-fetch	2019-05-30-3b3e368dead01979e985cb167873fe9868b15d19-1	ISC
lsof	4.91-1	lsof
kmod-bcm6xxx-i2c-bus	4.1	GPL-v2
kmod-ipt-core	4.1	GPL-v2
kmod-nf-nathelper-extra	4.1	GPL-v2
lxc-templates	2.1.1-3	LGPL-v2.1
firewall	2019-01-02	ISC
kmod-ipsec	4.1	GPL-v2
kmod-modmmswitch	4.1+2012.09	GPL-v2
kmod-udptunnel4	4.1	GPL-v2
kmod-iptunnel4	4.1	GPL-v2
ip-full	5.0.0-1	GPL-v2
lua-tch	1.3	ClearBSD
kmod-crypto-hash	4.1	GPL-v2
logd	2019-04-07-5130fa4d9c5d15d643506f906927b209d7690a83-1	GPL-v2
kmod-ipt-ipset	4.1	GPL-v2
libusb-1.0	1.0.22-2	LGPL-v2.1
kmod-ipt-hashlimit	4.1	GPL-v2
lxc-start	2.1.1-3	LGPL-v2.1
transformer	1.0	ClearBSD
6to4	12-2	GPL-v2
luasocket	3.0-rc1-20130909-5	MITlike
libmosquitto	1.6.2-1	BSDlike
ppp-mod-pppol2tp	2.4.7-2019-05-25-2	BSDlike
libavro-c	1.7.7-1	Apache-2.0
kmod-nf-ipt6	4.1	GPL-v2
libstdc++	5.5.0-1	GCC RUNTIME LIBRARY EXCEPTION v3.0
kmod-usb-serial-option	4.1	GPL-v2
kmod-usb-serial-qualcomm	4.1	GPL-v2
kmod-ncr	4.1+0.2-tch	GPL-v2
libparsifal	1.1.0-0	BSD
libnetfilter-cthelper	1.0.0-2	GPL-v2
kmod-ipt-ipsec	4.1	GPL-v2
miniupnpd-igd2	1.0	BSD
kmod-udptunnel6	4.1	GPL-v2
kmod-nf-reject6	4.1	GPL-v2
kmod-ip6-tunnel	4.1	GPL-v2
jsonfilter	2018-02-04	ISC
rp-pppoe-relay	3.12-6	LGPL-v2

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Module Name	Module Version	Module License
kmod-pppol2tp	4.1	GPL-v2
tangram-client	5.3.2.2	Apache-2.0, MIT
kmod-input-polldev	4.1	GPL-v2
libip6tc	1.8.2-3	GPL-v2
kmod-ipt-extra	4.1	GPL-v2
usb-modeswitch	2017-12-19-f40f84c27534159066c94dad0c08e0b255c3e26-2	GPL-v2
busybox	1.30.1-3	GPL-v2
zoneinfo-southamerica	2019a-1	GPL-v2
kmod-nf-reject	4.1	GPL-v2
xl2tpd	1.3.13-1	GPL-v2
mtd	24	GPL-v2
iptables-mod-tproxy	1.8.2-3	GPL-v2
linenoise	1.0	MIT
kmod-nf-contrack	4.1	GPL-v2
kmod-ledtrig-netdev	4.1	GPL-v2
libmnl	1.0.4-2	LGPL-v2.1
libcgroup	0.41-1	LGPL-v2.1
kmod-ipsec4	4.1	GPL-v2
libubox	2019-02-27-eeef7b50a06bc3c3218d560b4b513b4e7b19127f-1	ISC
kmod-crypto-des	4.1	GPL-v2
kmod-nfnetwork	4.1	GPL-v2
lua-penlight	1.6.0-1	MIT
libipset	7.1-3	GPL-v2
sudo	1.8.27-1	ISC
iperf	2.0.13-1	BSD
kmod-bcm6xxx-bcmlics	4.1	GPL-v2
flock	2.33-2	GPL-v2
kmod-nat46	4.1+2017-05-12-683fbd2b765506332a1af141545652bf58f03166	GPL-v2
zoneinfo-europe	2019a-1	GPL-v2
kmod-nf-contrack-netlink	4.1	GPL-v2
kmod-pppoe	4.1	GPL-v2
libcap	2.27-1	BSD-3-Clause
kmod-nls-base	4.1	GPL-v2
kmod-bcm6xxx-laser_dev	4.1	GPL-v2
technicolor-button-userspace	1.0	GPL-v2
kmod-lib-textsearch	4.1	GPL-v2
kmod-bcm6xxx-bdmf	4.1	GPL-v2
dnsmasq	2.83-2	GPL-v2
dropbear	2019.78-2	MITlike
kmod-usb-serial-sierrawireless	4.1	GPL-v2



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Module Name	Module Version	Module License
libblobmsg-json	2019-02-27-eeef7b50a06bc3c3218d560b4b513b4e7b19127f-1	ISC
zoneinfo-simple	2019a-1	GPL-v2
kmod-ipsec6	4.1	GPL-v2
lua-mosquitto	0.3-1	MIT
kmod-ipip	4.1	GPL-v2
kmod-slhc	4.1	GPL-v2
6rd	9-4	GPL-v2
wget	2019-05-30-3b3e368dead01979e985cb167873fe9868b15d19-1	ISC
lxc	2.1.1-3	LGPL-v2.1
libid3tag	0.15.1b-4	GPL-v2
libelf1	0.176-2	LGPL-v2
kmod-lib-crc16	4.1	GPL-v2
libflac	1.3.2-2	BSDlike
iptables-mod-length2	2.14-8	GPL-v2
ddns-scripts_no-ip_com	2.7.8-8	GPL-v2
mmpbxfwctl	1.0	GPL-v2
lxc-attach	2.1.1-3	LGPL-v2.1
iptables-mod-contrack-extra	1.8.2-3	GPL-v2
tcpdump	4.9.3-1	BSD
jansson	2.12-1	MIT
multiap_agent	1.0.0	BSD-2-Clause-Patent
zoneinfo-asia	2019a-1	GPL-v2
libpcre	8.43-1	BSD
wol	0.7.1	GPL-v2
ppp-mod-connstate	2.4.7-2019-05-25-2	BSDlike
libvorbis	1.3.6-1	BSDlike
kmod-tommath	4.1+1.0	GPL-v2
iptables-mod-ipopt	1.8.2-3	GPL-v2
libubus-lua	2018-10-06-221ce7e7ff1bd1a0c9995fa9d32f58e865f7207f-1	LGPL-v2.1
kmod-bcm6xxx-usb-storage	4.1	GPL-v2
libxml2	2.9.9-1	MIT
kmod-ipt-raw6	4.1	GPL-v2
libc	undefined-1	GCC RUNTIME LIBRARY EXCEPTION v3.0
iptables-mod-skiplog	1.8.2-3	GPL-v2
webui-common	1.0	MIT
zoneinfo-australia-nz	2019a-1	GPL-v2
kmod-bcm6xxx-slicslac	4.1	GPL-v2
kmod-ipt-debug	4.1	GPL-v2
kmod-bcm6xxx-dsphal	4.1	GPL-v2
kmod-scsi-core	4.1	GPL-v2

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Module Name	Module Version	Module License
watchdog	5.13	GPL-v2
ebtables	2.0.11	GPL-v2
libuci	2019-05-17-f199b961c2970b63cc83947ad49b327b3f48f05f-3	LGPL-v2
dhcpsnooper	1.2	GPL-v2
libexif	0.6.21-1	LGPL-v2.1
kmod-crypto-null	4.1	GPL-v2
mosquitto-ssl	1.6.2-1	BSDlike
musl-fts	1.2.7-1	GPL-v2
zoneinfo-poles	2019a-1	GPL-v2
gponmd	2.0	MITlike
kmod-l2tp	4.1	GPL-v2
kmod-lib-crc-ccitt	4.1	GPL-v2
kmod-bcm6xxx-usb2	4.1	GPL-v2
kmod-ledtrig-pattern	4.1	GPL-v2
kmod-lib-zlib-deflate	4.1	GPL-v2
kmod-crypto-hmac	4.1	GPL-v2
kmod-technicolor-button	4.1+1.0	GPL-v2
miniupnpd-igd1	1.0	BSD
kmod-bcm6xxx-usb1	4.1	GPL-v2
iptables-mod-ipsec	1.8.2-3	GPL-v2
xinetd	2.3.15-5	MITlike
kmod-input-gpio-keys-pollled	4.1	GPL-v2
libjpeg	9c-2	MITlike
librt	undefined-1	GCC RUNTIME LIBRARY EXCEPTION v3.0
kmod-ipt-tproxy	4.1	GPL-v2
kmod-nf-contrack6	4.1	GPL-v2
uqmi	2016-12-19-8ceeab690d8c6f1e3afbd4bcaee7bc2ba3fbe165-6	GPL-v2
kmod-iptunnel6	4.1	GPL-v2
zoneinfo-core	2019a-1	GPL-v2
kernel	4.1	GPL-v2
libuv	1.24.1-1	MITlike
luafilesystem	1.7.0.2-1	MITlike
libexpat	2.2.6-1	MIT
libssp	5.5.0-1	GCC RUNTIME LIBRARY EXCEPTION v3.0
kmod-crypto-md5	4.1	GPL-v2
kmod-nf-nathelper	4.1	GPL-v2
ifstat	1.1-1	GPL-v2
lxc-create	2.1.1-3	LGPL-v2.1
kmod-ledtrig-timer	4.1	GPL-v2
libopus	1.3-1	BSD-3-Clause

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Module Name	Module Version	Module License
libmosquitto-ssl	1.6.2-1	BSDlike
conf-ipset	1.0	GPL-v2
libbatchannel	0.1-b8b20b12a34a1e4ed746f5322aa96ed962b10666	Apache-2.0
libnl-tiny	0.1-5	LGPL-v2.1
curl	7.65.1-1	MITlike
kmod-ipt-nathelper-rtsp	4.1+2.14-8	GPL-v2
libstream-openssl	2018-07-30-23a3f2830341acd1db149175baf7315a33bd0edb-1	ISC
kmod-sit	4.1	GPL-v2
kmod-crypto-sha1	4.1	GPL-v2
sqlite3	0.9.5-1	MIT
kmod-crypto-manager	4.1	GPL-v2
ppp-mod-pppoe	2.4.7-2019-05-25-2	BSDlike
luaexpat	1.3.0-1	MITlike
kmod-ipt-nat	4.1	GPL-v2
kmod-ipt-length2	4.1+2.14-8	GPL-v2
kmod-ipt-ipopt	4.1	GPL-v2
ddns-scripts	2.7.8-8	GPL-v2
liblua	5.1.5-3	MIT
kmod-veth	4.1	GPL-v2
kmod-usb-net-sierrawireless	4.1	GPL-v2
zoneinfo-africa	2019a-1	GPL-v2
kmod-nfnetlink-queue	4.1	GPL-v2
kmod-crypto-wq	4.1	GPL-v2
kmod-tomcrypt	4.1+1.17	GPL-v2
rp-pppoe-common	3.12-6	LGPL-v2
iptables-mod-iprange	1.8.2-3	GPL-v2
lxc-destroy	2.1.1-3	LGPL-v2.1
kmod-ripdrv	4.1+2014.01	GPL-v2
webserv-nfq	1.0	GPL-v2
multiap_controller	1.0.0	BSD-2-Clause-Patent
lxc-hooks	2.1.1-3	LGPL-v2.1
libintl-full	0.19.8.1-2	LGPL-v2.1
socat	1.7.3.3-1	GPL-v2
ss	5.0.0-1	GPL-v2
kmod-ipt-contrack-extra	4.1	GPL-v2
kmod-crypto-authenc	4.1	GPL-v2
kmod-crypto-sha512	4.1	GPL-v2
jshn	2019-02-27	ISC
libnet-1.2.x	1.2-rc3-4	GPL-v2
libnetfilter-contrack	2018-05-01-3ccae9f5b2a9564cd63699ba60e54a46bc0d73b6-2	GPL-v2

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Module Name	Module Version	Module License
kmod-ipt-raw	4.1	GPL-v2
libpopt	1.16-2	MIT
ppp	2.4.7-2019-05-25-2	BSDlike
lxc-stop	2.1.1-3	LGPL-v2.1
kmod-usb-net-huawei-cdc-ncm	4.1	GPL-v2
udns-dnsget	0.4-1	LGPL-v2.1
mountd	2018-01-04-4fe9c42055deba0a134dd298a5b5388a38fb1047	GPL-v2
kmod-button-hotplug	4.1	GPL-v2
odhcpd	2018-08-21	ClearBSD
lua-signal	1.2.1	MIT
libjson-c	0.12.1-3	MIT
libnetfilter-queue	2017-06-27-601abd1c71ccdf90753cf294c120ad43fb25dc54-2	GPL-v2
ip	5.0.0-1	GPL-v2
libcli	1.9.7-1	LGPL-v2.1
kmod-usb-serial-wwan	4.1	GPL-v2
kmod-usb-net-cdc-ether	4.1	GPL-v2
kmod-i2c-core	4.1	GPL-v2
kmod-fs-ext4	4.1	GPL-v2
libpthread	undefined-1	GCC RUNTIME LIBRARY EXCEPTION v3.0
libcups	2.2.11-1	GPL-v2
libpci	3.6.2-2	GPL-v2
nstat	5.0.0-1	GPL-v2
libcurl	7.65.1-1	MITlike
libfuse	2.9.7-2	LGPL-v2.1
zoneinfo-all	2019a-1	GPL-v2
kmod-usb-core	4.1	GPL-v2
kmod-usb-net-qmi-wwan	4.1	GPL-v2