

Content of the End-User License Agreement:

1. LICENSE.....	2
2. DATA LICENSE.....	2
3. LICENSE EXCLUSIONS.....	2
4. FEES AND PAYMENT FOR PURCHASED SERVICES.....	3
5. TITLE AND PROTECTION	3
6. PATENT AND COPYRIGHT INDEMNITY	3
7. DEFAULT AND TERMINATION	4
8. WARRANTY	4
9. LIMITATION OF LIABILITY	5
10. UPGRADES AND PATCHES	6
11. NOTICES.....	6
12. ASSIGNMENT.....	6
13. ENTIRE AGREEMENT.....	6
14. APPLICABLE LAW AND JURISDICTION	6
15. DEFINITIONS.....	6
Terms and Conditions of Open-Source Software.....	8
1.OPEN-SOURCE LICENSE	8
(a) Main components:	8
(b) System core components:	8
(c) Application:	15
(d) Python Libraries:	16
2.LIMITED WARRANTY	16
3.LIMITATION OF LIABILITY	17
4.OPENING UP ACCESS TO SOURCE CODE	17

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LAST UPDATE: 28th day of November, 2022.

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(a) Main components:

Component	Version	License
The Linux Kernel Archives	4.14	GPLv2
KerOS¹	4.3.0	

(b) System core components:

Component	Version	License
at	3.1.20-r0	GPLv2+
avahi-autoipd	0.6.32-r0	GPLv2+ & LGPLv2.1+
avahi-daemon	0.6.32-r0	GPLv2+ & LGPLv2.1+
base-files	3.0.14-r89	GPLv2
base-passwd	3.5.29-r0	GPLv2+
bash	4.4-r0	GPLv3+
bscc²	1.0-r0	BSD
busybox	1.24.1-r0	GPLv2 & bzip2
busybox-hwclock	1.24.1-r0	GPLv2 & bzip2
busybox-udhcpc	1.24.1-r0	GPLv2 & bzip2
bzip2	1.0.6-r5	bzip2
ca-certificates	20170717-r0	GPL-2.0+ & MPL-2.0
commonloragw³	1.0-r0	Proprietary
connman-client	1.36-r0	GPLv2

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² Base Station Client Controller; Kerlink application for gateway configuration and monitoring integrated into their Wanesy Management Center solution

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connman	1.36-r0	GPLv2
connman-plugin-vpn-openvpn	1.36-r0	GPLv2
connman-vpn	1.36-r0	GPLv2
contrack-tools	1.4.4-r0	GPLv2+
cryptsetup	1.7.4-r0	GPL-2.0-with-OpenSSL-exception
curl	7.54.1-r0	MIT
dbus-1	1.10.20-r0	AFL-2 GPLv2+
e2fsprogs-e2fsck	1.43.5-r0	GPLv2
e2fsprogs-mke2fs	1.43.5-r0	GPLv2
eudev	3.2.2-r0	GPLv2.0+ & LGPL-2.1+
extra-user	1.0-r0	MIT
flex	2.6.0-r0	BSD
gnupg	2.2.0-r0	GPLv3 & LGPLv3
gpgv	2.2.0-r0	GPLv3 & LGPLv3
gpio⁴	1.0-r0	Proprietary
hostapd	2.6-r0	GPLv2 BSD
init-ifupdown	1.0-r7	GPLv2
initscripts	1.0-r155	GPLv2
initscripts-functions	1.0-r155	GPLv2
iproute2	4.11.0-r0	GPLv2+
iproute2-ss	4.11.0-r0	GPLv2+
iptables	1.6.1-r0	GPLv2+
iw	4.9-r0	BSD
libaio1	0.3.110-r0	LGPLv2.1+
libarchive	3.3.2-r0	BSD
libassuan0	2.4.3-r0	LGPLv2.1+
libavahi-common3	0.6.32-r0	GPLv2+ & LGPLv2.1+
libavahi-core7	0.6.32-r0	GPLv2+ & LGPLv2.1+
libblkid1	2.30-r0	GPLv2+ & LGPLv2.1+ & BSD
libbz2-1	1.0.6-r5	bzip2
libc6	2.26-r0	GPLv2 & LGPLv2.1
libcap2	2.25-r0	BSD GPLv2
libcom-err2	1.43.5-r0	GPLv2 & LGPLv2 & BSD & MIT
libcrypto1.0.2	1.0.2n-r0	openssl
libcurl4	7.54.1-r0	MIT
libdaemon0	0.14-r0	LGPLv2.1+
libdbus-1-3	1.10.20-r0	AFL-2 GPLv2+

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libdbus-glib-1-2	0.108-r0	AFL-2 GPLv2+
libdevmapper1.02	2.02.171-r0	GPLv2 & LGPLv2
libe2p2	1.43.5-r0	GPLv2 & LGPLv2 & BSD & MIT
libelf1	0.170-r0	(GPLv3 & Elfutils-Exception)
libestr0	0.1.10-r0	LGPLv2.1
libexpat1	2.2.3-r0	MIT
libext2fs2	1.43.5-r0	GPLv2 & LGPLv2 & BSD & MIT
libfastjson4	0.99.4-r0	MIT
libffi6	3.2.1-r0	MIT
libgcc1	7.3.0-r0	GPL-3.0-with-GCC-exception
libgcrypt	1.8.0-r0	LGPLv2.1+
libgdbm4	1.13-r0	GPLv3
libgdbm-compat4	1.13-r0	GPLv3
libgirepository-1.0-1	1.52.1-r0	LGPLv2+ & GPLv2+
libglib-2.0-0	1:2.52.3-r0	LGPLv2+ & BSD & PD
libgmp10	6.1.2-r0	GPLv2+ LGPLv3+
libgnutls30	3.5.13-r0	LGPLv2.1+
libgpg-error0	1.27-r0	GPLv2+ & LGPLv2.1+
libgudev-1.0-0	231-r0	LGPLv2.1
libidn11	1.33-r0	LGPLv2.1+ LGPLv3
libjansson4	2.9-r0	MIT
libkmod2	24	LGPL-2.1+
libksba8	1.3.5-r0	GPLv2+ LGPLv3+ GPLv3+
liblogging	1.0.5-r0	BSD
libloragw2⁵	1.0-r0	BSD
libloragw⁶	1.0-r0	BSD
liblorasnm⁷	1.0-r0	BSD
liblzma5	5.2.3-r0	PD
liblz0-2	2.10-r0	GPLv2+
libmbim	1.14.0-r0	GPLv2 & LGPLv2.1
libmnl0	1.0.4-r0	LGPLv2.1+
libmount1	2.30-r0	GPLv2+ & LGPLv2.1+ & BSD
libncursesw5	6.0+20170715-r0	MIT
libnetfilter-contrack3	1.0.6-r0	GPLv2+
libnetfilter-cthelper0	1.0.0-r0	GPLv2+
libnetfilter-cttimeout1	1.0.0-r0	GPLv2+
libnetfilter-queue1	1.0.2	GPLv2+
libnetsnmp30	5.7.3-klk1	BSD

⁵ Semtech LoRa HAL v2

⁶ Semtech LoRa HAL

⁷ Simple Network Management Protocol; Part of the Kerlink Wansey Management Center solution

libnfnetlink0	1.0.1-r0	GPLv2+
libnl-3-200	1:3.2.29-r0	LGPLv2.1
libnl-genl-3-200	1:3.2.29-r0	LGPLv2.1
libnpth0	1.5-r0	LGPLv2+
libnss-mdns	0.10-r7	LGPLv2.1+
libopkg1	1:0.3.5-r0	GPLv2+
libpcap1	1.8.1-r0	BSD
libpci3	3.5.5-r0	GPLv2+
libpcr1	8.41-r0	BSD
libperl5	5.24.1-r0	Artistic-1.0 GPL-1.0+
libpopt0	1.16-r3	MIT
libprotobuf14	3.4.1+git0+b04e5cb a35-r0	BSD-3-Clause
libprotobuf-c1	1.3.0+git0+dac1a65 fea-r0	BSD-2-Clause
libpython2.7-1.0	2.7.13-r1	PSFv2
libqmi	1.18.0-r0	GPLv2 & LGPLv2.1
libreadline7	7.0-r0	GPLv3+
libsensors4	3.4.0-r0	GPLv2+ & LGPLv2.1+
libsqlite3-0	3:3.20.0-r0	PD
libssl1.0.2	1.0.2n-r0	openssl
libstdc++6	7.3.0-r0	GPL-3.0-with-GCC-exception
libtinfo5	6.0+20170715-r0	MIT
libudev1	3.2.2-r0	LGPL-2.1+
libunistring2	0.9.7-r0	LGPLv3+ GPLv2
libusb-1.0-0	1.0.21-r0	LGPLv2.1+
libuuid1	2.30-r0	GPLv2+ & LGPLv2.1+ & BSD
libwrap0	7.6-r10	BSD
libxml2	2.9.4-r0	MIT
libz1	1.2.11-r0	Zlib
linux-firmware-imx-sdma-imx6q ⁸	2:20190312-r0	Proprietary
llmrd	1.0-r0	GPLv2
lmsensors-config-lbsensors	1.0-r0	MIT-X
lmsensors-sensors	3.4.0-r0	GPLv2+ & LGPLv2.1+
logrotate	3.12.3-r0	GPLv2
loraapi ⁹	1.0-r0	BSD
lorad ¹⁰	1.0-r0	BSD

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⁹ Part of the Kerlink Common Packet forwarder software

¹⁰ Part of the Kerlink Common Packet forwarder software

lorafwd ¹¹	1.0-r0	BSD
lrzsz	0.12.20-r6	GPLv2+
lvm2-udevrules	2.02.171-r0	GPLv2 & LGPLv2
m4	1.4.18-r0	GPLv3
mobile-broadband-provider-info	1:20170310-r0	PD
modutils-initscripts	1.0-r7	PD
monit	5.20.0-r0	GPLv3
ncurses	6.0+20170715-r0	MIT
ncurses-terminfo-base	6.0+20170715-r0	MIT
netbase	1:5.4-r0	GPLv2
net-snmp-client	5.7.3-klk1	BSD
net-snmp	5.7.3-klk1	BSD
net-snmp-mibs	5.7.3-klk1	BSD
net-snmp-server	5.7.3-klk1	BSD
net-snmp-server-snmpd	5.7.3-klk1	BSD
net-snmp-server-snmpttrapd	5.7.3-klk1	BSD
nettle	3.3-r0	LGPLv3+ GPLv2+
ntp	4.2.8p10-r0	NTP
ntpdate	4.2.8p10-r0	NTP
ntp-tickadj	4.2.8p10-r0	NTP
ofono	1.24-r0	GPLv2
openssh	7.5p1-r0	BSD
openssh-keygen	7.5p1-r0	BSD
openssh-scp	7.5p1-r0	BSD
openssh-sftp-server	7.5p1-r0	BSD
openssh-ssh	7.5p1-r0	BSD
openssh-sshd	7.5p1-r0	BSD
openssl-conf	1.0.2n-r0	openssl
openssl	1.0.2n-r0	openssl
openvpn	2.4.3-r0	GPLv2
opkg-arch-config	1.0-r1	MIT
opkg	1:0.3.5-r0	GPLv2+
overlayfs-tools	1.0-r0	WTFPL
packagegroup-core-ssh-openssh	1.0-r1	MIT
perl	5.24.1-r0	Artistic-1.0 GPL-1.0+
pinentry	1.0.0-r0	GPLv2
ppp	2.4.7-r0	BSD & GPLv2+ & LGPLv2+ & PD
python ¹²	2.7.13-r1	PSFv2

¹¹ Part of the Kerlink Common Packet forwarder software

¹² Python Software Foundation License v2

python-argparse	2.7.13-r1	PSFv2
python-audio	2.7.13-r1	PSFv2
python-codecs	2.7.13-r1	PSFv2
python-compile	2.7.13-r1	PSFv2
python-compression	2.7.13-r1	PSFv2
python-contextlib	2.7.13-r1	PSFv2
python-core	2.7.13-r1	PSFv2
python-crypt	2.7.13-r1	PSFv2
python-ctypes	2.7.13-r1	PSFv2
python-datetime	2.7.13-r1	PSFv2
python-dbus	1.2.4-r0	MIT
python-difflib	2.7.13-r1	PSFv2
python-distutils	2.7.13-r1	PSFv2
python-email	2.7.13-r1	PSFv2
python-fcntl	2.7.13-r1	PSFv2
python-flup	1.0.2-r0	BSD
python-html	2.7.13-r1	PSFv2
python-image	2.7.13-r1	PSFv2
python-importlib	2.7.13-r1	PSFv2
python-io	2.7.13-r1	PSFv2
python-json	2.7.13-r1	PSFv2
python-jwt	1.3.0-r0	GPLv3
python-lang	2.7.13-r1	PSFv2
python-logging	2.7.13-r1	PSFv2
python-math	2.7.13-r1	PSFv2
python-mime	2.7.13-r1	PSFv2
python-misc	2.7.13-r1	PSFv2
python-netclient	2.7.13-r1	PSFv2
python-netifaces	0.10.6-r0	MIT
python-netserver	2.7.13-r1	PSFv2
python-numbers	2.7.13-r1	PSFv2
python-pickle	2.7.13-r1	PSFv2
python-pkgutil	2.7.13-r1	PSFv2
python-plistlib	2.7.13-r1	PSFv2
python-pprint	2.7.13-r1	PSFv2
python-psutil	5.3.1-r0	BSD
python-pyobject	3.22.0-r0	LGPLv2.1
python-pyotify	0.9.6-r0	MIT
python-pyserial	3.4-r0	BSD
python-readline	2.7.13-r1	PSFv2

python-re	2.7.13-r1	PSFv2
python-setuptools	36.2.7-r0	MIT
python-shell	2.7.13-r1	PSFv2
python-stringold	2.7.13-r1	PSFv2
python-subprocess	2.7.13-r1	PSFv2
python-syslog	2.7.13-r1	PSFv2
python-termcolor	1.1.0-r0	MIT
python-textutils	2.7.13-r1	PSFv2
python-threading	2.7.13-r1	PSFv2
python-toml	0.10.0-r0	MIT
python-unittest	2.7.13-r1	PSFv2
python-xml	2.7.13-r1	PSFv2
python-zlib	2.7.13-r1	PSFv2
rsyslog	8.29.0-r0	GPLv3 & LGPLv3 & Apache-2.0
run-postinsts	1.0-r9	MIT
shadow-base	4.2.1-r0	BSD Artistic-1.0
shadow	4.2.1-r0	BSD Artistic-1.0
shadow-securetty	4.2.1-r3	MIT
shared-mime-info	1.8-r0	LGPLv2+
sqlite3	3:3.20.0-r0	PD
strongswan	5.5.3-r0	GPLv2
stunnel	5.35-r0	GPLv2
sysvinit	2.88dsf-r14	GPLv2+
sysvinit-inittab	2.88dsf-r10	GPLv2
sysvinit-pidof	2.88dsf-r14	GPLv2+
taiclock¹³	1.0-r0	Proprietary
tcpdump	4.9.2-r0	BSD
thin-provisioning-tools	0.6.3-r0	GPLv3
tzdata-africa	2018c-r0	PD & BSD & BSD-3-Clause
tzdata-america	2018c-r0	PD & BSD & BSD-3-Clause
tzdata-antarctica	2018c-r0	PD & BSD & BSD-3-Clause
tzdata-arctic	2018c-r0	PD & BSD & BSD-3-Clause
tzdata-asia	2018c-r0	PD & BSD & BSD-3-Clause
tzdata-atlantic	2018c-r0	PD & BSD & BSD-3-Clause
tzdata-australia	2018c-r0	PD & BSD & BSD-3-Clause
tzdata	2018c-r0	PD & BSD & BSD-3-Clause

¹³ Taiclock from Kerlink Linux tools. This license shall not be deemed to be considered as the open source. All the exclusive rights correspond to Kerlink Linux distribution.

tzdata-europe	2018c-r0	PD & BSD & BSD-3-Clause
tzdata-misc	2018c-r0	PD & BSD & BSD-3-Clause
tzdata-pacific	2018c-r0	PD & BSD & BSD-3-Clause
tzdata-posix	2018c-r0	PD & BSD & BSD-3-Clause
tzdata-right	2018c-r0	PD & BSD & BSD-3-Clause
tzsw¹⁴	1.0-r0	Proprietary
udev-extraconf	1.1-r0	MIT
update-alternatives-opkg	0.3.6-r0	GPLv2+
update-rc.d	0.7-r5	GPLv2+
usb-modeswitch	2.5.0-r0	GPLv2
usb-modeswitch-data	20170205-r0	GPLv2
usbutils	008-r0	GPLv2+
util-linux-sulogin	2.30-r0	GPLv2+ & LGPLv2.1+ & BSD
vlan	1.9-r0	GPLv2
wpa-supPLICANT-cli	2.6-r0	BSD
wpa-supPLICANT	2.6-r0	BSD
wpa-supPLICANT-passphrase	2.6-r0	BSD
zeromq	4.2.3-r0	LGPLv3+
ztp¹⁵	1.0-r0	Proprietary

(c) Application:

The following components are added to the system on top of the base Kerlink firmware.

Component	Version	License
gettext¹⁶	0.21	GPL
handlebars¹⁷	4.1.0	MIT
jq	1.5	Public Domain
jQuery¹⁸	1.11.1	MIT
libcrypto	1.0.2	GPLv2
lighttpd	1.4.45-r0	BSD

¹⁴ TrustZone Software; Proprietary software provided by the NXP

¹⁵ Zero touch provisioning for Kerlink KerOS products. Part of the Kerlink Wanasy Management Center solution. This license shall not be deemed to be considered as the open source. All the exclusive rights correspond to Kerlink Linux distribution.

¹⁶ Only the envsubst binary is used

¹⁷ Javascript library

¹⁸ Javascript library

wget	1.20.2	GPLv3+
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(d) Python Libraries:

Component	Version	License
APScheduler	3.9.1	MIT
backports.functools-lru-cache	1.6.4	MIT
bitstring	3.1.9	MIT
configparser	4.0.2	MIT
enum34	1.1.10	BSD
expiringdict	1.2.1	Apache-2.0
filelock	3.0.8	Public Domain
funcsigs	1.0.2	Apache Software License
futures	0.18.2	MIT
future-fstrings	1.2.0	MIT
futures¹⁹	3.3.0	PSF
ipaddress	1.0.23	PSF
netifaces	0.11.0	MIT
psutil	5.9.1	BSD
pycrypto	2.6.1	Public Domain
pycryptodome	3.15.0	Apache Software License & BSD & Public Domain
pytz	2022.1	MIT
PyYAML	3.13	MIT
six	1.16.0	MIT
sqlite3²⁰	2.7.13	Public Domain
tokenize-rt	3.2.0	MIT
toml	0.10.2	MIT
typing	3.10.0.0	PSF
tzlocal	2.1	MIT

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¹⁹ Python Software Foundation License

²⁰ Sources are uncopyrighted. Use for any purpose

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