

FLOSS - Free Libre & Open Source Software

Perception Software

GEN Series Software

Version v8.00



Contents

Introduction	3
Perception Software Component	3
GEN Series Firmware Component	3
Licenses Description	7
Apache 2.0	8
Artistic 2.0	12
2-Clause BSD	15
3-Clause BSD	16
Boost Software License 1.0	17
GPL-2.0	18
GPL-3.0	24
ISC	36
LGPL-2.1	37
MIT	46
The Dual OpenSSL and SSLeay Licence	47
Zlib	50
ListViewPrinterBase License	51
Microsoft License Terms	52

Introduction

Besides a high degree of own developed software code, HBM has been using Free, Libre and Open Source Software (FLOSS) to realize all functions of the GHS Data Acquisition System and the accompanying Perception PC software. The system basically consists of a mainframe (housing, power supply and backplane) with installed front panel or communication processor and an assembly of various connection boards and amplifier boards based on the customer's requirement.

The following gives an overview about the FLOSS used and the relevant license model.

Even though the list has been produced for the current GHS firmware and Perception, the software components are unlikely to change in the future, based on the fact, that all FLOSS software components are related to GHS's core system architecture.

Perception Software Component

Table 1.1: Perception Software List

Packages	License Model
cJSON	MIT
NewtonSoft.Json	MIT
Ooura's algorithm	Artistic-2.0
Microsoft.Azure.KeyVault.Core	MIT
WindowsAzure.Storage	Apache-2.0
ListViewPrinterBase	ListViewPrinterBase License
Microsoft.Data.Edm	Microsoft Software License Terms
Microsoft.Data.OData	Microsoft Software License Terms
Microsoft.Data.Services.Client	Microsoft Software License Terms
System.ComponentModel.EventBasedAsync	Microsoft Software License Terms
System.Dynamic.Runtime	Microsoft Software License Terms
System.Net.Requests	Microsoft Software License Terms
System.Spatial	Microsoft Software License Terms

GEN Series Firmware Component

Table 1.2: GEN Series Software List

Packages	License Model
alsa-lib	LGPL-2.1
alsa-utils	GPL-2.0
avahi-autoipd	LGPL-2.1

Packages	License Model
base-files	GPL-2.0
blkid	GPL-2.0
block-mount	GPL-2.0
blockd	GPL-2.0
boost	BSL-1.0
busybox	GPL-2.0
debugfs	GPL-2.0
dropbear	MIT
dumpe2fs	GPL-2.0
e2freefrag	GPL-2.0
e2fsprogs	GPL-2.0
f2fs-tools	GPL-2.0
f2fsck	GPL-2.0
fdisk	GPL-2.0
flashrom	GPL-2.0
fstools	GPL-2.0
fwtool	GPL-2.0
gdb	GPL-3.0
getrandom	GPL-2.0
ip-bridge	GPL-2.0
ip-full	GPL-2.0
jshn	ISC
jsonfilter	ISC
kernel	GPL-2.0
ata-core	GPL-2.0
button-hotplug	GPL-2.0
can	GPL-2.0
can-peak-pciefd	GPL-2.0
can-raw	GPL-2.0
can-usb-peak	GPL-2.0
can-vcn	GPL-2.0
cgosdrv	GPL-2.0
crypto-aead	GPL-2.0
crypto-crc32	GPL-2.0
crypto-crc32c	GPL-2.0
crypto-hash	GPL-2.0
crypto-manager	GPL-2.0
crypto-null	GPL-2.0
crypto-pcompress	GPL-2.0
dax	GPL-2.0
dm	GPL-2.0
fs-autofs4	GPL-2.0
fs-cramfs	GPL-2.0
fs-ext4	GPL-2.0
fs-f2fs	GPL-2.0
hbm-eth-core	GPL-2.0
hbm-fpga-core	GPL-2.0
hbm-gestalt-driver	GPL-2.0
hid	GPL-2.0
hwmon-core	GPL-2.0
i2c-algo-bit	GPL-2.0

Packages	License Model
i2c-core	GPL-2.0
igb	GPL-2.0
input-core	GPL-2.0
input-evdev	GPL-2.0
ixgbe	GPL-2.0
ktapi	GPL-2.0
lib-crc-ccitt	GPL-2.0
lib-crc16	GPL-2.0
lib-crc32c	GPL-2.0
lib-zlib-inflate	GPL-2.0
md-mod	GPL-2.0
md-raid0	GPL-2.0
md-raid1	GPL-2.0
md-raid10	GPL-2.0
mdio	GPL-2.0
nls-base	GPL-2.0
nls-cp437	GPL-2.0
nls-iso8859-1	GPL-2.0
nls-utf8	GPL-2.0
pcspkr	GPL-2.0
pexesc_uio	GPL-2.0
pps	GPL-2.0
ptp	GPL-2.0
regmap-core	GPL-2.0
scsi-core	GPL-2.0
scsi-generic	GPL-2.0
sound-core	GPL-2.0
sound-hda-core	GPL-2.0
sound-hda-intel	GPL-2.0
usb-core	GPL-2.0
libblobmsg-json	ISC
libc	GPL-3.0
libcap	GPL-2.0
libcares	MIT
libdevmapper	GPL-2.0
libedit	BSD-3-Clause
libftdi1	LGPL-2.1
libhttp-parser	MIT
libjson-script	ISC
libkmod	LGPL-2.1
libnl-tiny	LGPL-2.1
libopenssl-conf	OpenSSL
libpci	GPL-2.0
libpcrc	BSD-3-Clause
libpthread	GPL-3.0
librt	GPL-3.0
libsndfile	LGPL-2.1
libssp	GPL-3.0
libthread-db	GPL-3.0
linuxptp	GPL-2.0
logd	GPL-2.0

Packages	License Model
lsblk	GPL-2.0
mkf2fs	GPL-2.0
mtd	GPL-2.0
netifd	GPL-2.0
nginx-ssl	BSD-2-Clause
node	MIT
node-sqlite3	BSD-3-Clause
node-websocket	Apache-2.0
openssl-util	OpenSSL
openwrt-keyring	GPL-2.0
opkg	GPL-2.0
partx-utils	GPL-2.0
pciutils	GPL-2.0
procd	GPL-2.0
pv	Artistic-2.0
resize2fs	GPL-2.0
samba36-server	GPL-3.0
screen	GPL-3.0
sqlite3-cli	PUBLICDOMAIN
terminfo	MIT
tune2fs	GPL-2.0
ubox	GPL-2.0
ubus	LGPL-2.1
ubusd	LGPL-2.1
uci	LGPL-2.1
uclient-fetch	ISC
urandom-seed	GPL-2.0
urngd	GPL-2.0
usign	ISC
zlib	Zlib

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