FLOSS - Free Libre & Open Source Software

Perception Software GEN Series Software

Version v8.28.0



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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 accompying 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

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
LZ4	BSD-2-Clause

Table 1.1: Perception Software List

GEN Series Firmware Component

lable 1.2: GE	N Series Software List
Packages	License Model
alsa-lib	LGPL-2.1
alsa-ucm-conf	BSD-3-Clause

Table 1.2: GEN Series Software I	List
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Packages	License Model
alsa-utils	GPL-2.0
attr	GPL-2.0
avahi-autoipd	LGPL-2.1
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
dbus	AFL-2.1
debugfs	GPL-2.0
dropbear	МІТ
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
cgosdrv	GPL-2.0
crypto-aead	GPL-2.0
crypto-arc4	GPL-2.0
crypto-cbc	GPL-2.0
crypto-ccm	GPL-2.0
crypto-cmac	GPL-2.0
crypto-crc32	GPL-2.0
crypto-crc32c	GPL-2.0
crypto-ctr	GPL-2.0
crypto-des	GPL-2.0
crypto-ecb	GPL-2.0
crypto-gcm	GPL-2.0
crypto-gf128	GPL-2.0
crypto-ghash	GPL-2.0
crypto-hash	GPL-2.0
crypto-hmac	GPL-2.0
crypto-manager	GPL-2.0
crypto-md4	GPL-2.0
crypto-md5	GPL-2.0
crypto-null	GPL-2.0
crypto-pcompress	GPL-2.0 GPL-2.0
crypto-pcompress	01 L-2.0



Packages	License Model
crypto-rng	GPL-2.0
crypto-seqiv	GPL-2.0
crypto-sha1	GPL-2.0
crypto-sha256	GPL-2.0
crypto-sha512	GPL-2.0
dax	GPL-2.0
dm	GPL-2.0
fs-autofs4	GPL-2.0
fs-cifs	GPL-2.0
fs-cramfs	GPL-2.0
fs-ext4	GPL-2.0
fs-f2fs	GPL-2.0
fs-ksmbd	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
i2c-core	GPL-2.0
igb	GPL-2.0
input-core	GPL-2.0
input-evdev	GPL-2.0
ixgbe	GPL-2.0
keys-encrypted	GPL-2.0
keys-trusted	GPL-2.0
ktapi	GPL-2.0
ledtrig-audio	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
libphy	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
mdio-devres	GPL-2.0
nls-base	GPL-2.0
nls-cp437	GPL-2.0
nls-iso8859-1	GPL-2.0
nls-utf8	GPL-2.0
pcan	GPL-2.0 GPL-2.0
pcspkr	GPL-2.0 GPL-2.0
pexesc_uio	GPL-2.0 GPL-2.0
	GPL-2.0 GPL-2.0
pps ptp	GPL-2.0 GPL-2.0
random-core	GPL-2.0 GPL-2.0
regmap-core	GPL-2.0 GPL-2.0
scsi-core	GPL-2.0 GPL-2.0
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Packages	License Model
scsi-generic	GPL-2.0
sound-core	GPL-2.0
sound-hda-core	GPL-2.0
sound-hda-intel	GPL-2.0
tpm	GPL-2.0
usb-core	GPL-2.0
ksmbd-avahi-service	GPL-2.0
ksmbd-server	GPL-2.0
ksmbd-utils	GPL-2.0
libattr	GPL-2.0
libavahi-client	LGPL-2.1
libavahi-dbus-support	LGPL-2.1
libc	GPL-3.0
libcap	GPL-2.0
libdbus	AFL-2.1
libedit	BSD-3-Clause
libexpat	MIT
libftdi1	LGPL-2.1
libgnutls	LGPL-2.1
libkmod	LGPL-2.1
libpci	GPL-2.0
libpcre	BSD-3-Clause
libpthread	GPL-3.0
librt	GPL-3.0
libselinux	libselinux-1.0
libsndfile	LGPL-2.1
libtasn1	LGPL-2.1 LGPL-2.1
libthread-db	GPL-3.0
	GPL-3.0 GPL-2.0
linuxptp	
logd	GPL-2.0
lsblk	GPL-2.0
mkf2fs	GPL-2.0
mtd	GPL-2.0
musl-fts	LGPL-2.1
netifd	GPL-2.0
openwrt-keyring	GPL-2.0
opkg	GPL-2.0
partx-utils	GPL-2.0
pciids	GPL-2.0
pciutils	GPL-2.0
procd	GPL-2.0
pv	Artistic-2.0
resize2fs	GPL-2.0
screen	GPL-3.0
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



Packages	License Model
urandom-seed	GPL-2.0
urngd	GPL-2.0
usign zlib	ISC
zlib	Zlib

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