



- ▶ New DHMI baseboard with state-of-the-art interfaces and high degree of flexibility
- ▶ Installation variants: surface-mounted, flush-mounted, panel-mounted, VESA mount
- ▶ Robust and compact solution for human-machine interaction
- ▶ Industrial design
- ▶ Powerful and energy-saving DHCOM modul as computing unit
- ▶ No heat sink required thanks to 5-cent cooling solution
- ▶ Thanks to a family concept, the SOM can be upgraded at any time

## Technical Data

### CPU Details

CPU name	NXP i.MX8M Plus   default, other processors with DHCOM standard available on request
CPU type	ARM Cortex-A53   ARM Cortex-M7
CPU clock	Cortex-A53 up to 1.6 GHz Cortex-M7 up to 800 MHz

## Memory

LPDDR4 DRAM 1	1 / 2 / 4 / 8 (on request) GB
eMMC Flash	4 / 8 / 16 GB
EEPROM	256 kB
Additional RTC	Temp. compensated RTC
SD card socket available	✓

## Connectivity

Ethernet	2 x Gbit Ethernet
USB	1 x USB 3.1 2 x USB 2.0
CAN	1x
Serial	1x RS485 or RS232
Buttons	1x Reset
UART	1x UART TTL
SPI	1x
I2C	1x

## Multimedia

2D   3D GPU	GC7000UL graphics accelerator with OpenGL ES, OpenCL and Vulkan support up to 166M triangle/s and 1Gpixel/s Etnaviv Open Source GPU driver support
2D   3D Acceleration	Yes   Yes

Display diagonal	15.6 inch
Resolution	1920 x 1080 px
Color depth	16.7M
MTBF	50.000 hrs
Touch	PCAP

## Operating system

BSP	Linux Yocto (Debian on request)
Debug interface	JTAG interface on module
Setup and config	Get our free web browser to configure the DHMI or to display any website

## Block Diagrams

