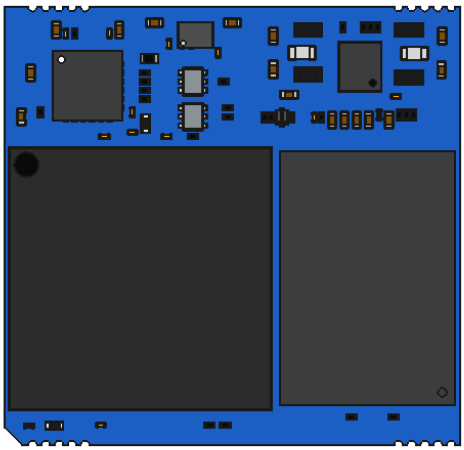
ENGICAM®
EMBEDDED SOLUTIONS

MicroSOM

MicroGEA MX8ULP

Engicam presents MicroGEA MX8ULP based on new NXP® i.MX 8ULP processor that features up to two Arm® Cortex®-A35 running at 1 GHz, an Arm Cortex-M33 core. The module brings ultra-low power processing advanced integrated security and a graphical engine.



HIGHLIGHTS

- Very small form factor
- Optimizing energy at the chip level
- 3D GPU engine

yocto PROJECT

APPLICATIONS

Industrial | Transportation | Robotics | Biomedical/ Medical devices

FEATURES

CPU	NXP® i.MX8ULP
CORES	Up to two Arm® Cortex®-A35 @ 1.0 GHz Arm Cortex-M33 @ 216 MHz
MEMORY	Starting from 1 GB LPDDR4x - 1066
Graphics	3D GPU includes OpenGL® ES 3.1, Vulkan®, OpenVG™ 1.1, OpenCL™ 2.x and OpenVG™ 1.1 3D graphics accelerator, and 2D graphics accelerator
Video Interfaces	1x MIPI DSI (4-lane) with PHY, 1x Parallel up-to 24-bit RGB (DBI/DPI)
Networking	1x 10/100 Ethernet interface
Mass Storage	4GB eMMC drive soldered on-board
USB	2 x USB HOST 2.0
Audio	I2S interface
Peripheral Interfaces	UART, I2C, SPI, JTAG, CAN, SDIO, GPIOs, JTAG i/f
Power Supply	+ 3,3V DC
Operating System	Linux – Yocto
Operating Temperature*	Industrial qualified
Dimensions	25 x 25 mm

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* Valid for all components except CPU. Customer shall consider junction temperature for CPU. Temperature will widely depend on application. Specific cooling solutions could be necessary for the final system.