

MicroGEA MX8ULP

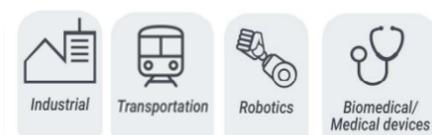
Engicam presents MicroGEA MX8ULP based on new NXP® i.MX 8ULP processor that features up to two Arm® Cortex®-A35 running at 1 GHz, an Arm Cortex-M33 core. This module brings ultra-low power processing advanced integrated security and a graphical engine.



HIGHLIGHTS

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

APPLICATIONS



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
	GRAPHICS	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 1x MIPI DSI (4-lane) with PHY • 1x Parallel up-to 24-bit RGB (DBI/DPI)
	USB	2x USB HOST 2.0
	AUDIO	SAI interface
	NETWORKING	1x 10/100 Ethernet interfaces

	MASS STORAGE	4GB eMMC drive soldered on-board
	PERIPHERAL INTERFACES	UART, SM Bus, I²C, LPC/eSPI, SPI, GPIOs
	POWER SUPPLY	+3,3V DC
	OPERATING SYSTEM	<ul style="list-style-type: none"> • Linux • Yocto
	OPERATING TEMPERATURE*	Industrial qualified
	DIMENSIONS	25 x 26 mm

* 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.



BLOCK DIAGRAM

