

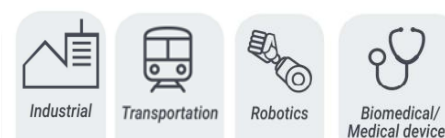
Engicam presents MicroGEA MX93 based on NXP® i.MX 93 processor. This module is equipped with Arm Cortex®-A55 @ up to 1.7 GHz processor with Arm® Ethos™ U-65 microNPU, which includes industrial features and temperature for ML acceleration, power efficiency and robust security.



HIGHLIGHTS

- Extreme compact form factor
- Powerful dual Arm Cortex - A55 processor with Neural Processing Unit (NPU)
- Suitable for high performance ML applications

APPLICATIONS



FEATURES



	CPU	NXP i.MX93
	CORES	2x Arm Cortex -A55 @ up to 1.7 GHz processor and 1x Arm Cortex-M33 @250Mhz
	MEMORY	Up to 2GB LPDDR4x @3700MTs
	AI & GRAPHICS	Arm® Ethos™ U-65 microNPU Hardware Compositor for blending/composition, resize, color space graphics conversion
	VIDEO INTERFACES	• 1x Parallel up-to 24-bit RGB (DBI/DPI) • Single channel LVDS up to 1366x768 or 1280x800
	USB	• USB OTG 2.0 • USB HOST 2.0
	AUDIO	I2S interface
	NETWORKING	• 1x 10/100 Ethernet interface

	MASS STORAGE	Starting from 4GB eMMC drive soldered on-board
	PERIPHERAL INTERFACES	UART, SM Bus, I ² C, SPI, GPIOs, CAN
	POWER SUPPLY	+5V DC
	OPERATING SYSTEM	• Linux • Yocto
	OPERATING TEMPERATURE*	Industrial qualified
	DIMENSIONS	25 x 25 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

