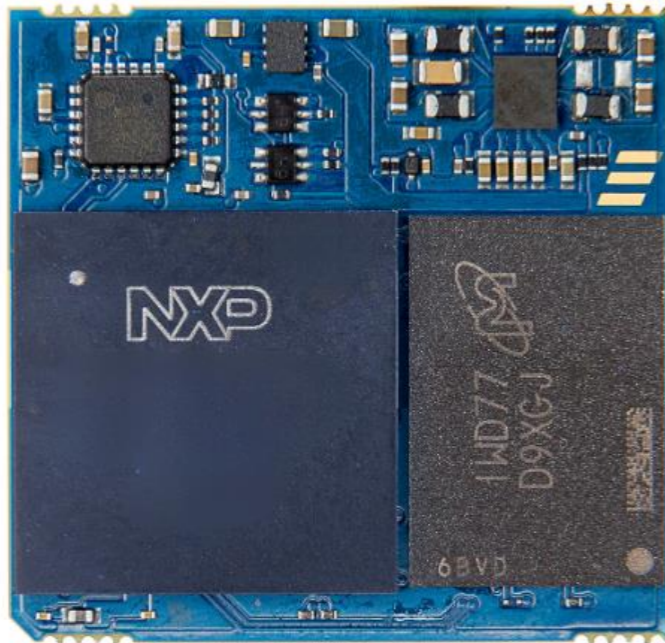


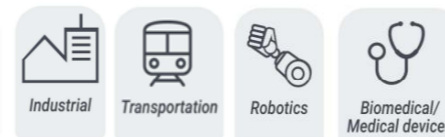
Engicam presents MicroGEA MX91 based on new NXP® i.MX 91. This module is equipped with an Arm® Cortex®-A55 @ up to 1.4 GHz processor, which includes industrial features and temperature grade, a wide set of peripherals, scalable on board eMMC and DRAM, connectivity, and security options.



HIGHLIGHTS









- Extreme compact form factor
- Easy-to-use single power supply
- Ethernet PHY on board
- Suitable for optimized industrial applications



APPLICATIONS



FEATURES



 CPU	NXP i.MX91
 CORES	Arm Cortex-A55
 MEMORY	Starting from 1 GB LPDDR4
 GRAPHICS	Parallel RGB
 VIDEO INTERFACES	1x Parallel up-to 24-bit RGB (DBI/DPI)
 USB	2x USB HOST 2.0
 AUDIO	I2S interface
 NETWORKING	<ul style="list-style-type: none"> • 1x 10/100 Ethernet interfaces • Additional 1x RMII

 MASS STORAGE	Starting from 4GB eMMC drive soldered on-board
 PERIPHERAL INTERFACES	UART, SM Bus, I ² C, SPI, GPIOs, CAN
 POWER SUPPLY	+3,3V DC
 OPERATING SYSTEM	<ul style="list-style-type: none"> • 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

