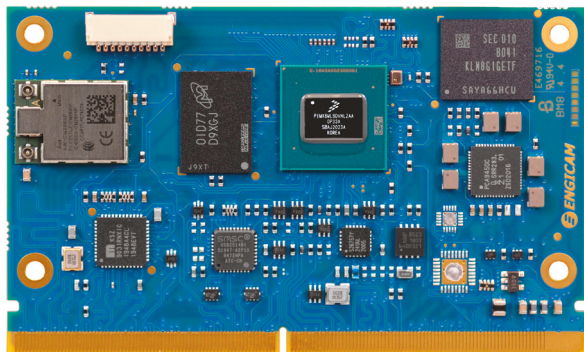


SmarCore MX8M Plus

The new Engicam module for machine learning, IOT connectivity, multimedia and HMI applications is based on SMARC standard.

SmarCoreMX8M Plus is based on NXP™ i.MX 8M Plus is equipped with Cortex-A53 cores plus Cortex-M7.



HIGHLIGHTS

- Standard SMARC
- Powerful quad Arm® Cortex®-A53 processor with a Neural Processing Unit (NPU)
- Suitable for machine learning and vision and advanced multimedia applications



Specifications are subject to change without notice.

APPLICATIONS



Artificial Intelligence



Industrial



Digital Signage
Infotainment



Transportation



Automotive



Avionics



Surveillance



Robotics



Biomedical/
Medical devices



















Gaming



Home Automation

FEATURES

 CPU	NXP® i.MX 8M Plus	 Mass Storage	Up to 32GB eMMC
 CORES	Powerful quad Arm® Cortex®-A53 @ up to 1.6GHz processor with a Neural Processing Unit (NPU) operating at up to 2.3 TOPS + Cortex®-M7 CPU @ 800 MHz	 Networking	2 x Gb Ethernet interface
 MEMORY	RAM up to 4GB LPDDR4	 PCIe	1 x PCIe 3.0
 Graphics	GC7000UL (2 shaders), OpenGL ES 2.0/3.0/3.1, Vulkan, OpenCL 1.2; GC520 (2D) Asynchronous Sample Rate Converter	 USB	1 x USB OTG 3.0 1 x USB HOST 3.0
 Video Interfaces	LVDS, 18/24bit up to Full HD MIPI-DSI – 4 lanes option HDMI up to Full HD 2x MIPI-CSI – 4 lanes	 Audio	I2S Interface
 Video Processing Unit capabilities	1080p60 HEVC (h.265, h.264, VP9, VP8) dec; 1080p60 HEVC (h.265, h.264) enc	 Peripheral Interfaces	UART, I2C, PCIe 3.0, SPI, JTAG, CAN, SDIO, SPI, GPIO
		 PowerSupply	+ 5V DC
		 Operating System	Linux - Android
		 Operating Temperature*	Industrial (-40°C to 105°C Tj)
		 Dimensions	Standard SMARCTM 2.0 short size module

* 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.