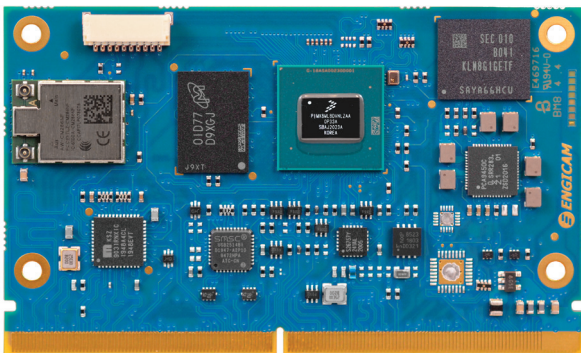


SmarCore MX8M Plus

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



APPLICATIONS



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
 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
 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.