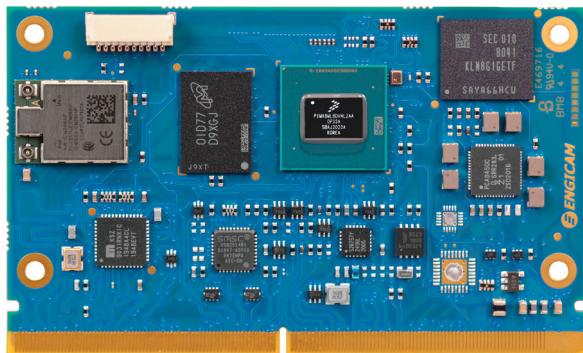


SmarCore MX8M Plus

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

SmarCoreMX8M Plus is based on NXPTM 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	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, h264, 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.