

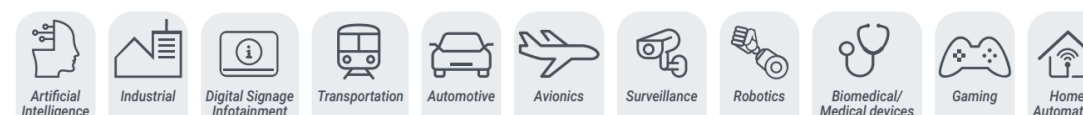
The new version of i.Core MX8M Plus processor with **double Gb Ethernet** interface. NXP® i.MX 8M Plus processor provides substantially high performance for **ML inference** at the edge. Equipped with the quad-core Arm® Cortex®-A53 plus Cortex-M7, i.Core MX8M Plus GbE runs at up to 1.8 GHz with an integrated neural processing unit (NPU) that delivers up to 2.3 TOPS. The module is available also with a single Gb Ethernet interface + reduced gigabit media-independent interface (RGMII).



HIGHLIGHTS

















- Standard Edimm 2.0
- Powerful quad Arm Cortex-A53 processor with a Neural Processing Unit (NPU)
- Suitable for high performance HMI, video and networking applications

APPLICATIONS



FEATURES



 CPU	NXP i.MX8M Plus	 PCIE	1 x PCIe 3.0
 CORES	Quad Arm Cortex-A53 @ up to 1.8GHz processor with a (NPU) up to 2.3 TOPS and Cortex-M7 CPU @ 800 MHz.	 USB	<ul style="list-style-type: none"> • USB OTG 3.0 • USB HOST 3.0
 MEMORY	Up to 4GB LPDDR4	 MASS STORAGE	<ul style="list-style-type: none"> • Starting from 4GB eMMC drive soldered on-board
 GRAPHICS	GC7000UL (2 shaders), OpenGL ES 2.0/3.0/3.1, Vulkan, OpenCL 1.2; GC520 (2D)	 PERIPHERAL INTERFACES	UART, I ² C, SPI, JTAG, CAN, SDIO, GPIOs
 VIDEO INTERFACES	<ul style="list-style-type: none"> • LVDS 18/24bit up to Full HD • HDMI up to Full HD 	 POWER SUPPLY	+5V DC
 VIDEO PROCESSING	<ul style="list-style-type: none"> • 1080p60 HEVC (h.265, VP9, VP8) dec • 1080p60 HEVC (h.265) enc 	 OPERATING SYSTEM	<ul style="list-style-type: none"> • Linux • Yocto • Android
 AUDIO	<ul style="list-style-type: none"> • I²S interface 	 OPERATING TEMPERATURE*	Industrial qualified
 NETWORKING	<ul style="list-style-type: none"> • Double Gb Ethernet interfaces • Single Gb Ethernet interface + Single RGMII (option) 	 DIMENSIONS	32.1 x 67.6 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

