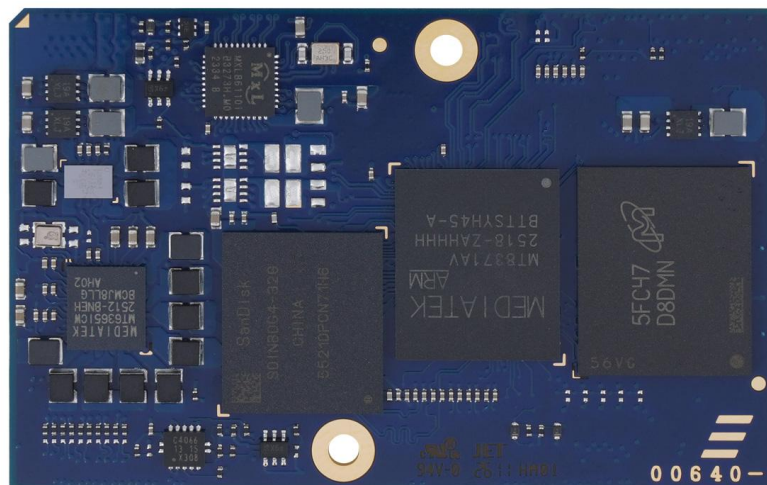


This Engicam module is a powerful IoT platform equipped with generative AI capabilities and advanced multimedia features. TIA Genio 520/720 is based on MediaTek® Genio 520/720 processor with 10 TOPS 8th Generation NPU, 3D GPU for real-time and high-performance applications.



FEATURES



	CPU	MediaTek® Genio 520/720
	CORES	2x Arm Cortex-A78, up to 2.6 GHz 6x Arm Cortex-A55, up to 2.0 GHz
	MEMORY	Up to 16GB (@ 6400 MT/s) LPDDR5
	AI & GRAPHICS	MediaTek 8 th Generation 10 TOPS NPU Arm Mali-G57 MC2 up to 1.1 GHz - OpenGL® ES 1.1, 2.0, 3.2 - Vulkan® 1.0, 1.1 - OpenCL up to 2.2
	VIDEO INTERFACES	1x MIPI-DSI 4-lane / LVDS 2x MIPI-CSI 4-lane - eDP
	VIDEO PROCESSING	3840 x 2160@60 fps HEVC/H.264/VP9 decoder 3840 x 2160@30 fps HEVC/H.264 encoder
	AUDIO	I2S or analog (HP stereo + MIC Interface)
	NETWORKING	1x Gb Ethernet interface (1x RGMII option)

HIGHLIGHTS

- Powerful MediaTek® Genio 520/720 processor with GPU and NPU
- Suitable for machine learning, vision and advanced multimedia applications

APPLICATIONS



	USB	2x USB 3.2 (HOST+OTG) or 1x USB Type-C (USB +DP) 2x USB 2.0
	MASS STORAGE	eMMC or UFS drive soldered on-board
	PERIPHERAL INTERFACES	UART, SPI, I ² C, GPIOs, JTAG, SDIO
	PCIe	1x PCIe Gen2 1-lane
	OPERATING SYSTEM	- Linux Yocto - Android
	POWER SUPPLY	+5V DC
	DIMENSIONS	35 x 55 mm
	OPERATING TEMPERATURE*	Industrial qualified

* 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

