

Built on the EDIMM 2.0 standard and powered by NXP® i.MX952, the i.Core MX952 delivers energy-efficient edge computing for AI-driven vision and sensor fusion. Featuring a 2.0 eTOPS eIQ® Neutron NPU, 3D graphics, real-time CPU processing, and integrated EdgeLock® functional safety, it is purpose-built for advanced industrial vision and HMI connectivity.



FEATURES



	CPU	NXP® i.MX952
	CORES	<ul style="list-style-type: none"> 4x Arm Cortex-A55, up to 1.7 GHz 1x Arm Cortex-M7, up to 800 MHz 1x Arm Cortex-M33, up to 333 MHz
	MEMORY	Up to 16GB (@ up to 6000 MT/s) LPDDR5
	AI & GRAPHICS	<ul style="list-style-type: none"> NXP eIQ® Neutron 2.0 eTOPS NPU Arm Mali-G310 3D GPU supporting 50 GFLOPs FP32. OpenGL® ES 3.2 Vulkan® 1.3 OpenCL 3.0 2D GPU
	VIDEO INTERFACES	<ul style="list-style-type: none"> 1x LVDS 4-lane 1x LVDS/MIPI-DSI 4-lane MIPI CSI 1x 4-lane or 2x 2-lane
	VIDEO PROCESSING	<ul style="list-style-type: none"> 4Kp60 H.265/H.264 decode, 1x JPEG Decoder 4Kp30 H.264 encode, 1x JPEG Encoder
	AUDIO	<ul style="list-style-type: none"> SAI Interface
	NETWORKING	2x Gb Ethernet interfaces (1x RGMII option available)

HIGHLIGHTS

- Standard EDIMM 2.0
- Powerful NXP® i.MX952 processor with GPU, NPU and VPU
- Suitable for HMI and advanced multimedia applications

APPLICATIONS



	USB	2x USB 2.0
	MASS STORAGE	eMMC drive soldered on-board
	PERIPHERAL INTERFACES	UART, SPI, LPSPI, I²C, CAN Bus, JTAG, GPIOs
	PCIe	1x PCIe Gen3 1-lane
	OPERATING SYSTEM	<ul style="list-style-type: none"> Linux Yocto Android
	POWER SUPPLY	+5V DC
	DIMENSIONS	32 x 67,6 mm
	OPERATING TEMPERATURE*	Extended 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

