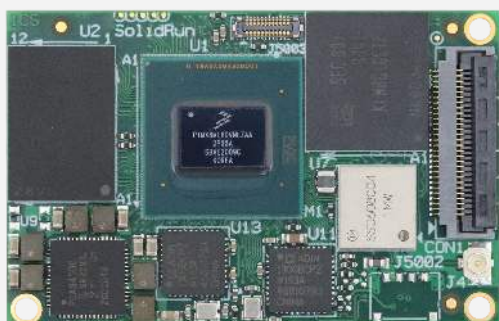


i.MX8M Plus SOM

Up to 4 x Arm Cortex-A53, 1 x Cortex-M7, Up to 1.8GHz

NXP i.MX 8M Plus Processor

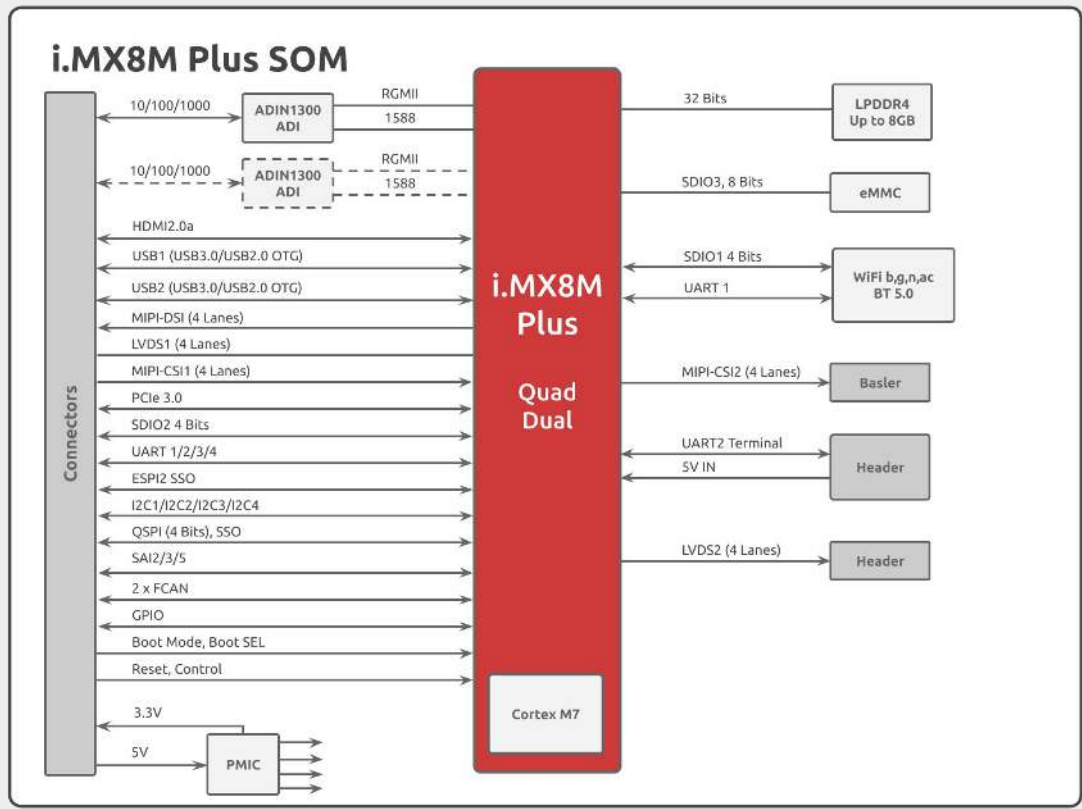
System on Module



- Integrated NPU (2.3 TOPs) for embedded AI/ML applications and edge inferencing
- Dual to Quad-core options with onboard WiFi/BT, eMMC, MIPI-CSI, LVDS
- Connect up to 2 MIPI cameras, 4K vision with HDR for detailed image processing



i.MX8M Plus Quad		
CPU Details	CPU Name	NXP i.MX8M Plus Quad
	CPU Type	4 x Cortex A53 1 x Cortex M7 1 x NPU up to 2.3 TOPs
	CPU Speed	1.8GHz Commercial 1.6GHz Industrial
	Floating Point	VFPv4
	SIMD	NEON
RAM	Memory & Storage	1GB LPDDR4
	Internal Storage	8GB eMMC
	External Storage Support	NOR-Flash SD PCIe-SSD
Networking	Ethernet	2 x 10/100/1000 Mbps (By default only 1 PHY assembled) 1 x with TSN
	Wireless	802.11 ac/a/b/g/n + BT 5.0
Multimedia	GPU	Vivante GC7000UL
	3D GPU Support	OpenGL ES 3.1/3.0 Vulkan OpenCL 1.2 FP OpenVG 1.1
	Video Decoder	1080p60
	Video Encoder	1080p60
	Display Interfaces	HDMI 2.0, MIPI-DSI, LVDS
	Camera Interface	2x MIPI-CSI2 (4 lane); first MIPI-CSI2 is on the SOM, second on the carrier
	S/PDIF Input / Output	1
Connectivity	Digital Audio Serial Interface	18x I2S TDM, DSD512, 8-ch PDM Mic input, eARC, ASRC Low power voice accelerator: Cadence® Tensilica® HiFi 4 DSP @ 800 MHz
	USB 3.0	2
	PCIe	1 (Gen 3.0)
	I2C	3
	SPI	1
	UART	2 (RTS/CTS/RX/TX) +1 (TX/RX)
	GPIO	75
	PWM	4
	CAN	2
	SD/MMC	1
OS Support	JTAG	Test point header
	Embedded Linux	Linux
Physical	Size	47 x 30 mm
	Interface	3 x Hirose DF40 connectors
Power	Main Voltage	5V
	I/O Voltage	3.3V/1.8V
Environment	Temperature	Commercial: 0°C to 70°C Industrial: -40°C to 85°C
	Humidity	Humidity (non-condensing): 10% – 90%



Ordering Information

Kits	
	Description
Buy Now	i.MX8 Plus HummingBoard Pro Evaluation Kit - SOM i.MX8M Plus HummingBoard Pro Inc. WiFi/BT 8GB RAM 32GB eMMC Inc. Heatsink Universal power adapter Micro SD Dual Ethernet PHY SKU: SRMP8-EVKHP-R08-32E
	i.MX8 Plus HummingBoard IIOT Basic Evaluation Kit - SOM i.MX8M Plus HummingBoard IIOT 8GB RAM LPDDR4 128GB eMMC Universal power adapter Micro SD SKU: SRMP8-EVKIIOTB-R01
	i.MX8 Plus HummingBoard IIOT Advanced Evaluation Kit - SOM i.MX8M Plus HummingBoard IIOT 8GB LPDDR4 128GB eMMC Universal power adapter Micro SD LVDS 7" Touch Display SKU: SRMP8-EVKIIOTD-R01

For more information about the i.MX8M Plus SOM Software/Hardware visit our:

Developer Center