

P05D00129-01

NXP i.MX8M Plus

Front View



Features

- Powered by NXP i.MX8M Plus
- Quad-core Arm Cortex-A53 + Cortex-M7 for high-performance computing and real-time control
- Integrated NPU up to 2.3 TOPS for Edge AI and machine vision applications
- Designed for AIoT, Smart HMI and Industrial Automation

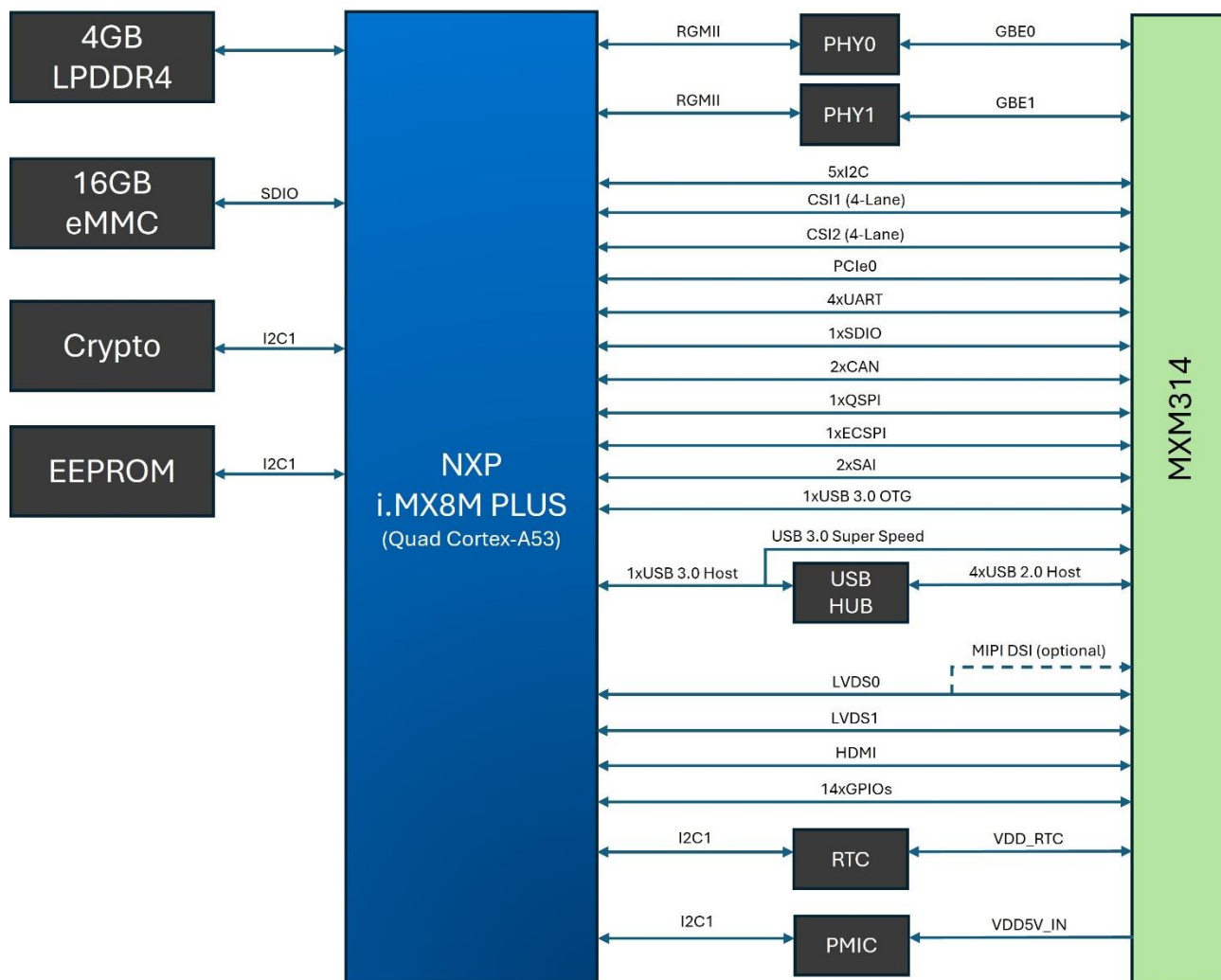
Specifications

Hardware		
CPU	i.MX8M Plus	Quad Core, 1.8GHz ARM Cortex-A53 & ARM Cortex-M7
GPU	3D Graphics	Vivante GC7000UL
	2D Graphics	Vivante GC520L
NPU	Integrated in CPU	Accelerator with processing performance up to 2.3 TOPS
Memory	On Board RAM	1 × 4GB LPDDR4 SDRAM
	On Board Flash	1 × 16GB eMMC Flash, 1 × 8K Bit EEPROM
I/O	Display	1 × MIPI DSI (optional) 2 × LVDS channels 1 × HDMI 2.1
	USB	1 × USB 3.0 OTG 1 × USB 3.0 Super Speed 4 × USB 2.0 Host (through USB HUB)

	Ethernet	2 × 10/100/1000 Mbps
	Default Peripheral (maximum)	4 × UART (UART2 for Debug Used) 5 × I2C 2 × SAI 2 × CAN 1 × QSPI 1 × ECSPi 1 × SDIO 1 × PCIe 3.0 14 × GPIOs

Software		
OS	Default	Yocto 5.X
	Optional	Android

Block Diagram



Dimensions

