P05D00116-01

ST STM32MP257

Front View



Features

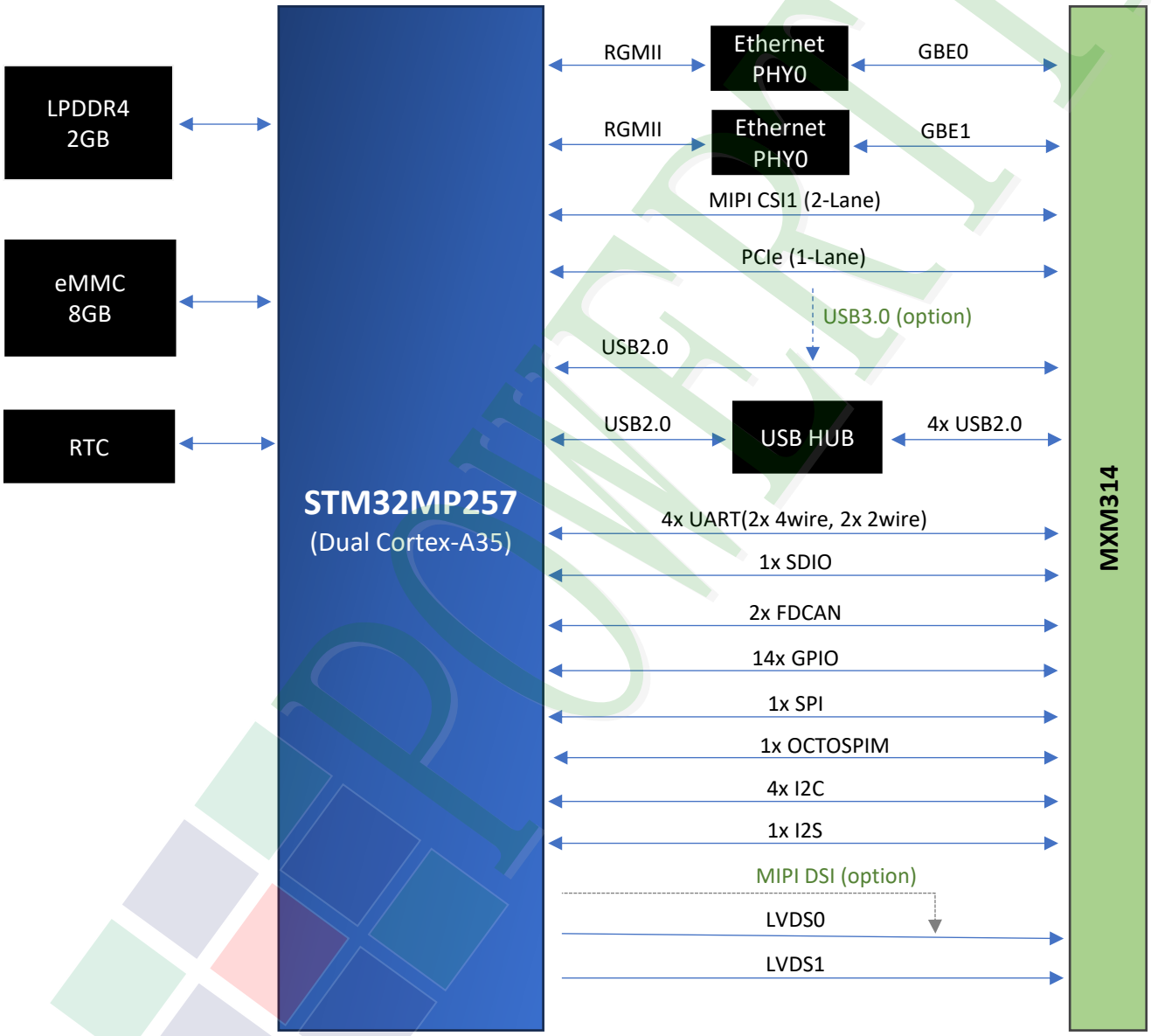
- High Performance, Low Power Consumption: Integrated with STM32MP257 dual-core processor
- Smart application areas: Industrial, Medical, Kiosks, and other HMI and AIoT application
- SMARC form factor for compact, scalable integration

Specifications

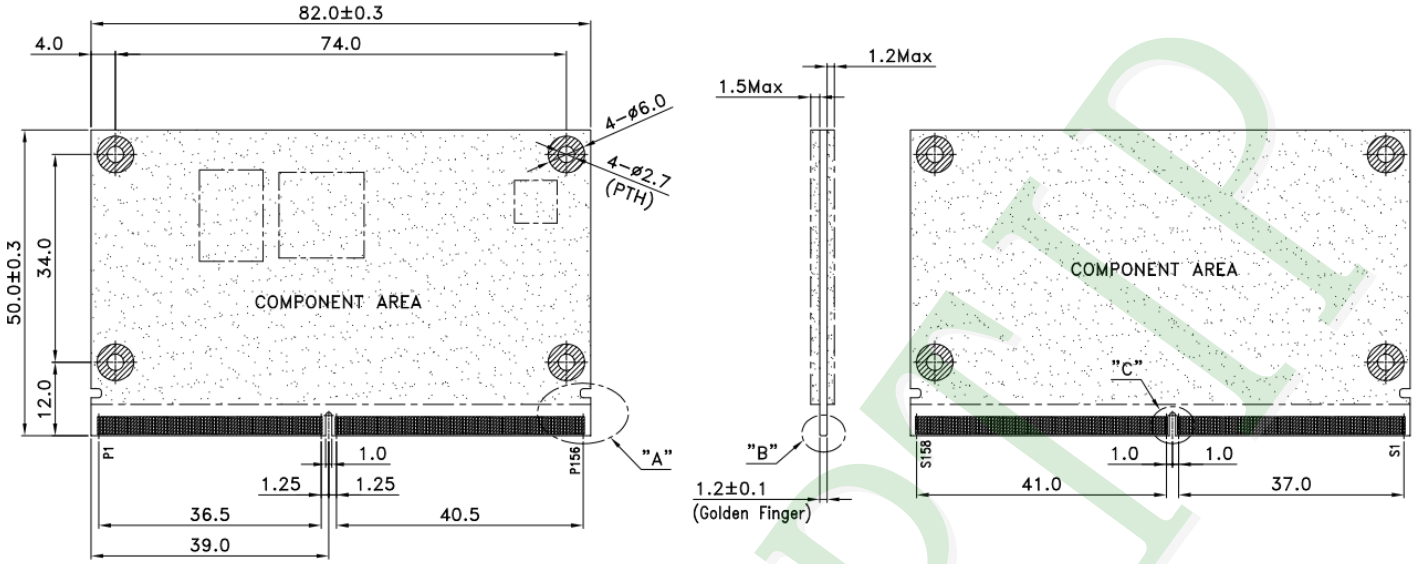
Hardware		
CPU	STM32MP257	Dual-core ARM Cortex-A35 1.5GHz, 1 × Cortex-M33
GPU	VeriSilicon	OpenGL ES 3.1, Vulkan 1.3, OpenCL 3.0, OpenVX 1.3
NPU	VeriSilicon	Accelerator with processing performance up to 1.35 TOPS
Memory	Onboard RAM	2GB LPDDR4 SDRAM (up to 4GB)
	Storage (Default Boot Device)	8GB eMMC Flash (Optional: 16GB/32GB/64GB)
I/O	Display	1 × LVDS (single/dual channel) or 1 × MIPI DSI (4-lane)
	Camera	1 × MIPI CSI (2-lane)
	Audio	1 × I^2S
	USB	1 × USB 2.0 Host/Device 4 × USB 2.0 Host
	Ethernet	2 × 10/100/1000 Mbps
	PCIe	1 × PCIe 2.0 x1
	SDIO	1 × SDMMC
	Serial Port	4 × UART (1 × debug)
	CAN Bus	2 × FDCAN
	Low-speed Bus	4 × I^2C 1 × SPI 1 × QSPI
	GPIO	14 × GPIOs
Environment	Operating Temp.	0 ~ 70 °C
	Storage Temp.	-30 ~ 85 °C
Mechanical	Form Factor	SMARC 2.2 Module [82 × 50 mm]

Software		
OS	Default	Yocto 5.X
	Optional	Android

Block Diagram



Dimensions



POWERTIP