P05D00107-00

NXP i.MX8M Mini

Front View



Features

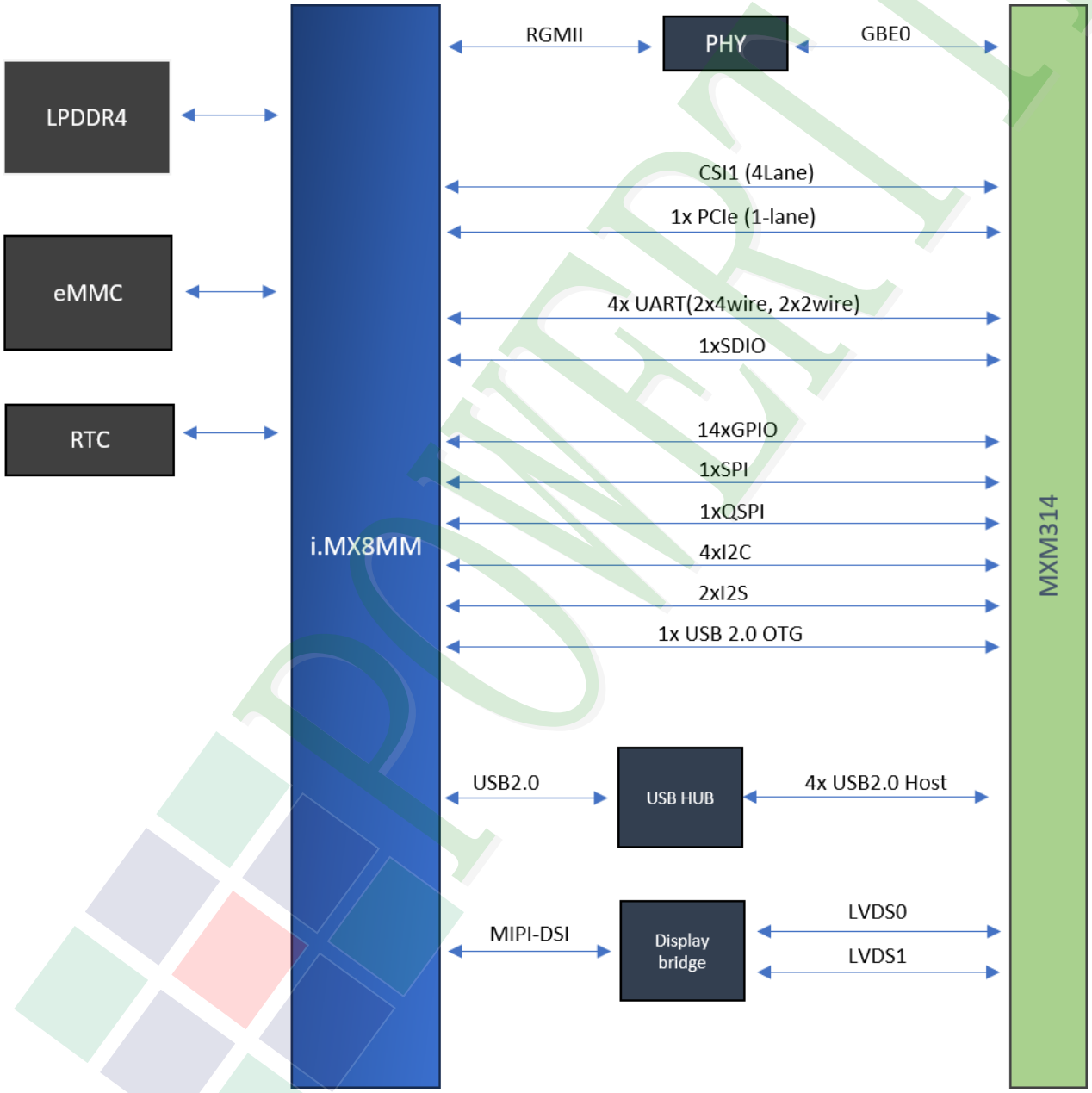
- Powered by NXP i.MX8M Mini
- Quad Arm Cortex-A53 + Cortex-M4 for real-time control
- SMARC form factor for compact, scalable integration
- Rugged design for industrial-grade HMI applications

Specifications

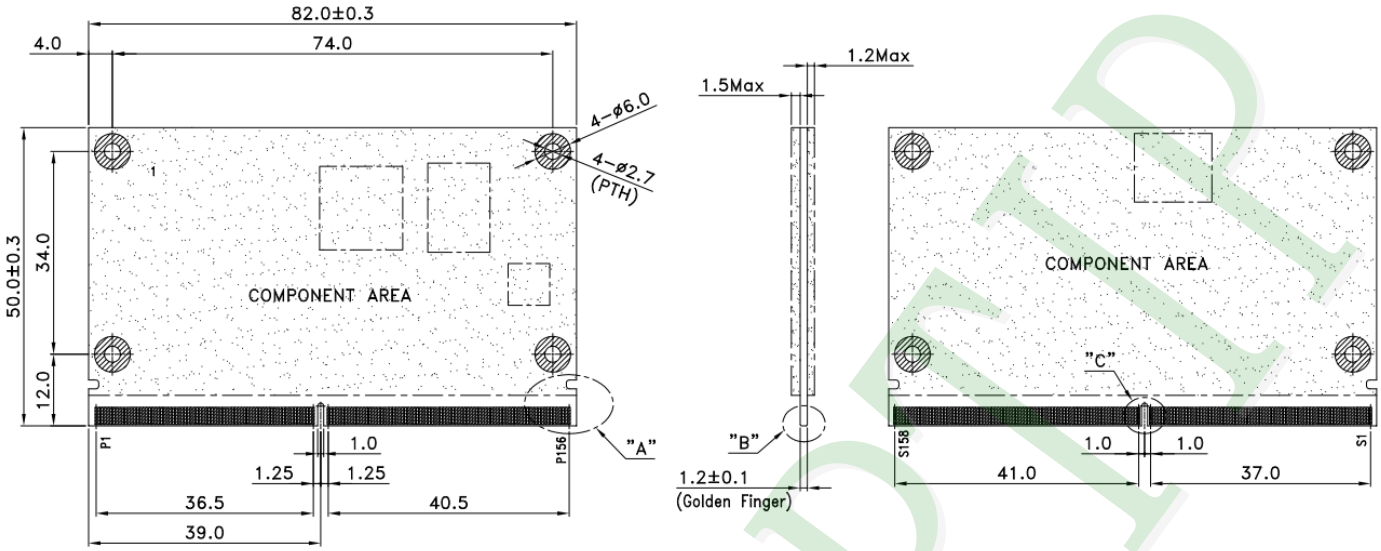
Hardware		
CPU	i.MX8M Mini	Quad-Core ARM Cortex-A53
Memory	Onboard RAM	2GB LPDDR4 SDRAM
	Storage (Default Boot Device)	8GB eMMC flash (Option: 32/64GB)
I/O	Display	1 × LVDS dual channel
	Camera	1 × MIPI-CSI (4-lane)
	Audio	2 × I²S
	USB	1 × USB 2.0 OTG 4 × USB 2.0 Host
	Ethernet	1 × RGMII (10/100/1000 Mbps)
	PCIe	1 × PCIe 2.0 x1
	SDIO	1 × SDIO
	Serial Port	4 × UART (SER3 for debug)
	Low-speed Bus	4 × I²C 1 × SPI 1 × QSPI
	GPIO	14 × GPIOs 2 × PWM
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 4.X
	Optional	Android

Block Diagram



Dimensions



POWERTIP