



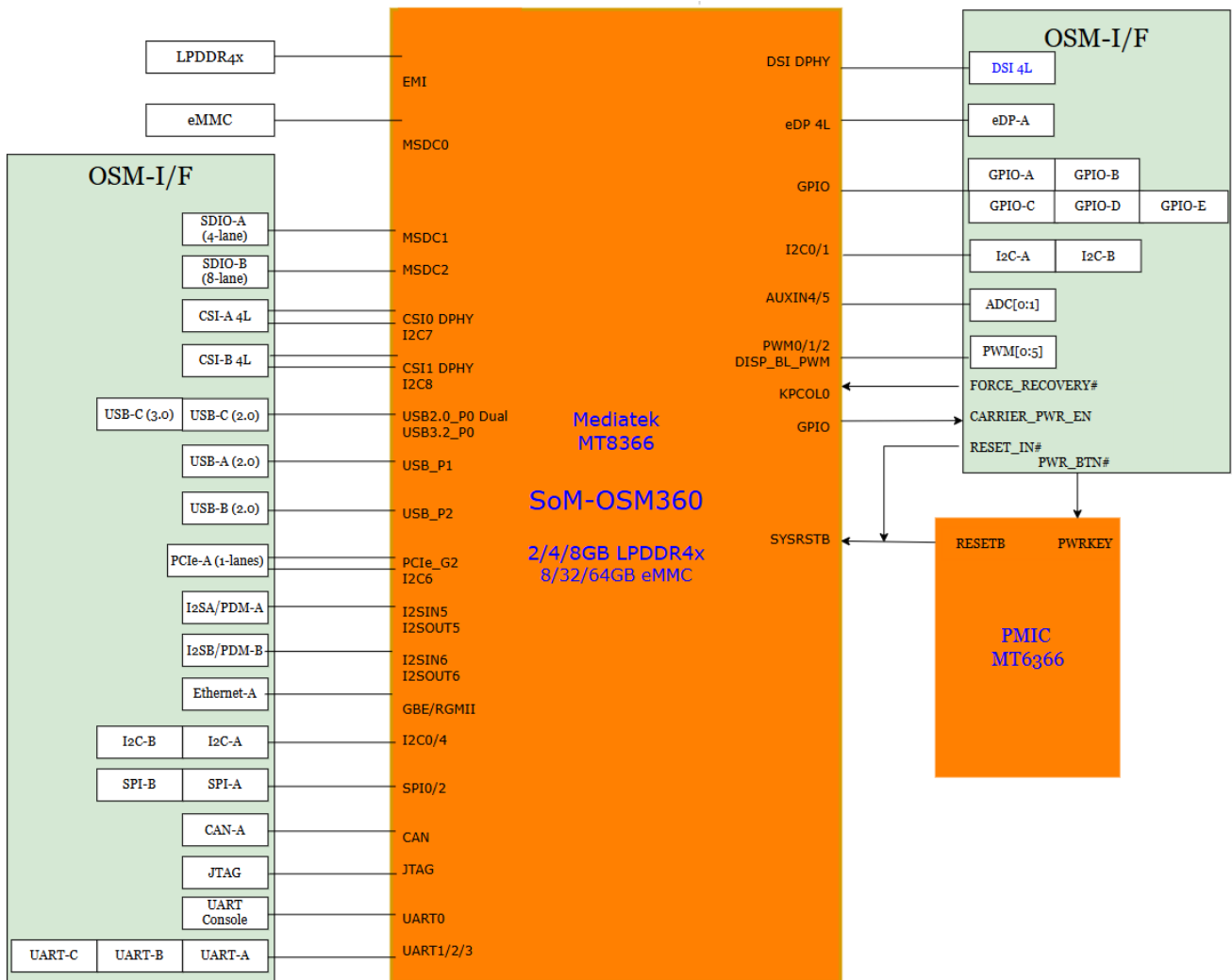
Features & Highlights

- **High-Performance Computing:** Powered by 1x Arm Cortex-A76@2.0GHz & 5x A55@2.0GHz, delivering reliable performance for demanding applications.
- **Advanced Graphics & Multimedia:** Integrated Mali-G57 GPU enables smooth 4K at 30fps decoding and FullHD at 90fps encoding.
- **Edge AI Ready:** Embedded Mediatek 8th NPU which can offer up to 5.1 TOPS for Edge AI applications.
- **Standards Compliant:** OSM revision 1.2 compliant, ensuring reliability and interoperability in system designs
- **Flexible OS Support:** Android 16/Yocto 5 (developing)/Ubuntu 24.04 (later)

System	
Processor	MediaTek G360 (MT8366)
Security	*Arm Trust Zone Security *Power Good Detector *eFuse Custom Field *Secure Boot with RSA4096 key *NIST 800-22 and NIST 800-90C compliant RNG
CPU	1x CA76 (2.0GHz) + 5x CA55 (2.0GHz)
GPU	Mali-G57 MC2
AI/NPU	NPU 8.0, 5.1 TOPS
Memory	
RAM	2/4/8 GB LPDDR4x-3733
Strong	8/32/64GB eMMC5.1
Operating System	
OS	• Android 16 • Yocto 5.0 Scarthgap (Kernel 6.6) • Ubuntu 24.04 (Planning)
Network	
Ethernet	Megabit (10/100/1000Mbps) Ethernet
Display	
MIPI DSI	1x MIPI DSI, up to 1920x1200@60Hz
eDP	1xeDP 4 lane, up to 4K60

Multimedia	
Video decode	4K30, H.265/H.264/VP9
Video encode	FHD90, H.265/H.264
Camera	2 x MIPI CSI
Peripheral	
USB	1x USB3.0 (including USB2.0), 2 x USB2.0
UART	1x Console, 3x general UART
SPI	2x
I ² S	2x
I ² C	2x
SDIO	2x (1x 4 lanes, 1x 8 lanes)
GPIO	29x
Power	
	5Vdc +/- 5%
Mechanical & Environmental	
From Factor	SGet OSM version 1.2
Dimension (L x W)	OSM size-L: 45 x 45 mm
Weight	15g
Operation Temperature	• Standard: 0°C to +60°C • Industrial: -40°C to +85°C (optional)
Humidity	• 5 - 90% RH operating, non-condensing • 5 - 95% RH storage
Shock & Vibration	IEC 600682-2-64 & IEC-60068-2-27





SoM-OSM360 Block Diagram

