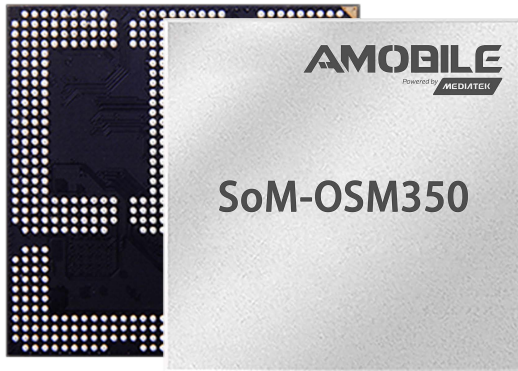


SoM-OSM350



Features & Highlights

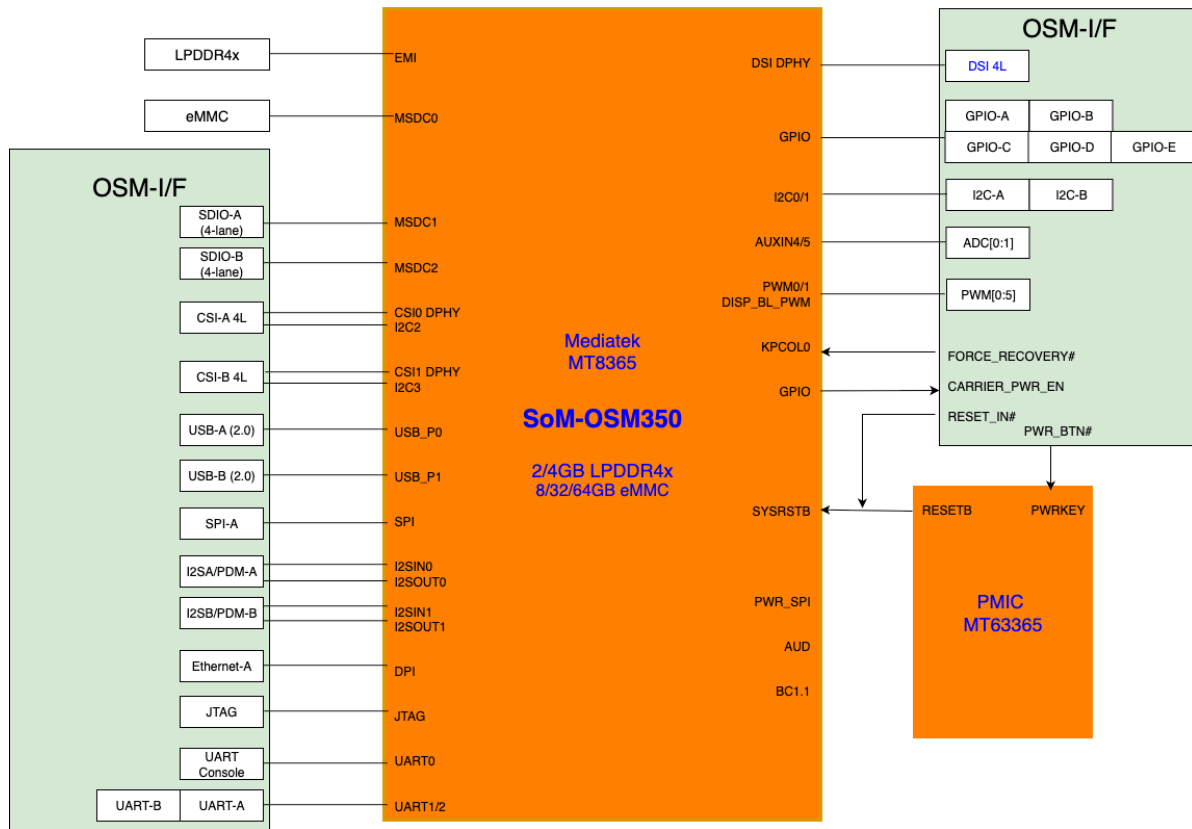
- **High-Performance Computing:** Powered by 4x ARM Cortex-A53 cores at 2.0GHz, delivering reliable performance for demanding applications.
- **Advanced Graphics & Multimedia:** Integrated Mali-G52 GPU enables smooth FHD dual-display at 60fps and supports H.265 video decoding.
- **Edge AI Ready:** Embedded VP6 APU and HiFi4 DSP accelerate AI workloads and on-device intelligence for Edge AI applications.
- **Standards Compliant:** OSM revision 1.2 compliant, ensuring reliability and interoperability in system designs
- **Flexible OS Support:** Android13/Yocto4/Ubuntu22.04

System	
Processor	MediaTek G350
Security	<ul style="list-style-type: none"> • Arm TrustZone (CA53 TZ) • Secure Boot +AVB • DRM support for AES/SHA • True random number generation (RNG) • Manufacturing protection support/Secure Non-Volatile Storage (SNVS)
CPU	4x CA53 (2.0G)
GPU	Mali-G52 MC1
AI/NPU	Cadence Tensilica VP6 processor, 0.3 TOPS
Audio DSP	Tensilica HiFi4 Audio Engine DSP
Memory	
RAM	2/4 GB LPDDR4X-3200Mbps
Strong	8/32/64GB eMMC5.1
Operating System	
OS	<ul style="list-style-type: none"> • Android 13 • Yocto 4.0 Kirkstone (Kernel 5.15.37) • Ubuntu 22.04
Network	
Ethernet	Megabit (10/100Mbps) Ethernet
Display	
MIPI DSI/LVDS	1x MIPI DSI (pin mix w/ LVDS), up to FHD60

Multimedia	
Video decode	FHD60, H.265/H.264/VP9
Video encode	FHD60, H.265/H.264
Camera	2 x MIPI CSI
Peripheral	
USB	1x USB 2.0 host, 1x USB2.0 OTG
UART	1x Console, 2x general UART
SPI	1x
I ² S	1x
I ² C	2x
SDIO	2x (w/4 lane)
GPIO	30x
Power	
	5Vdc +/- 5%
Mechanical & Environmental	
From Factor	SGet OSM version 1.2
Dimension (L x W)	OSM size-L: 45 x 45 mm
Weight	TBD
Operation Temperature	<ul style="list-style-type: none"> • Standard: 0°C to +60°C • Industrial: -40°C to +85°C (optional)
Humidity	<ul style="list-style-type: none"> • 5 - 90% RH operating, non-condensing • 5 - 95% RH storage
Shock & Vibration	IEC 600682-2-64 & IEC-60068-2-27

All specifications are subject to change without notice. Last update: August 14th, 2025 Preliminary





SoM-OSM350 Block Diagram

