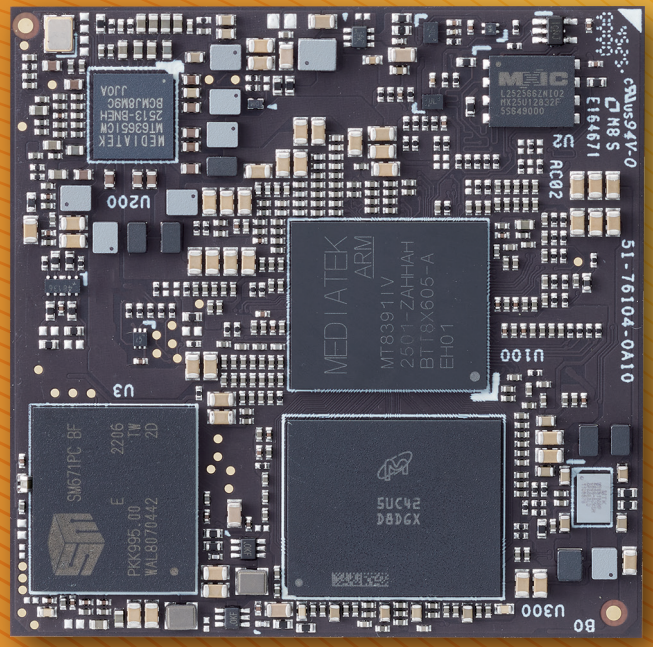
ADLINK
LEADING EDGE AI COMPUTING

For Edge AI Workloads

OSM-MTK520

MediaTek® Genio 520 OSM R1.2 Size-L Computer-on-Module



Designed to accelerate the development of high-performance, space-constrained edge applications, the ADLINK OSM-MTK520 Computer-on-Module powered by MediaTek Genio 520 SoC combines robust compute, integrated AI acceleration, and rich multi-display capabilities into an ultra-compact form factor.

Built on the revolutionary SGeT's Open Standard Module (OSM) solder-down BGA design, this module completely eliminates mechanical board-to-board connectors to deliver absolute immunity against high shock, severe vibration, and harsh operating environments.

- MediaTek® Genio 520 SoC with 2x Arm Cortex-A78 and 6x Cortex-A55
- MediaTek® 8th Gen NPU, up to 10 TOPS
- up to 16GB LPDDR5, up to 512GB UFS
- DP, eDP, LVDS 4L or DSI 4L
- Extreme Rugged: -40°C to +85°C (optional)
- SGeT OSM R1.2 Size-L (45mm x 45mm)

OPEN STANDARD MODULE™

Powered by MediaTek Genio

adlinktech.com/en/Computer_on_Modules_OSM

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ADLINK
LEADING EDGE AI COMPUTING

OPEN STANDARD MODULE™

Unlock Innovations with I-Pi Devkits

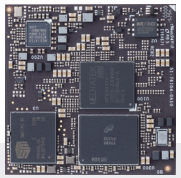


Fast-track your design with the I-Pi OSM 520! Skip lengthy board design and validate your software, carrier layout, and I/O instantly. Complete with out-of-the-box breakout interfaces and reference schematics, this kit minimizes design risk and cuts months off your time-to-market.

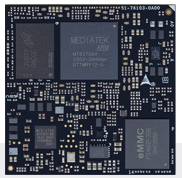
Key Features

- Edge AI
- High Scalability
- Reduced TCO
- 10 Years Longevity

Specifications



OSM-MTK520



OSM-MTK510

	OSM-MTK520	OSM-MTK510
CPU	MediaTek Genio 520 (2x Arm Cortex-A78 + 6x Arm Cortex-A55)	MediaTek Genio 510 SoC (2x Arm Cortex-A78+4x Arm Cortex-A55 cores)
Memory/Storage	up to 16GB LPDDR5, up to 512GB UFS	up to 8GB LPDDR4, up to 256GB eMMC
Boot Loader	Uboot	Uboot
Graphics Outputs	DP, eDP, LVDS 4L or DSI 4L	HDMI or DP, eDP, DSI 4L
Camera	2x 4 lane CSI	1x 4 lane CSI
LAN	1x GbE REGMII	1x GbE REGMII
USB	2x USB 2.0, 1x USB 3.1 Gen1, 1x USB 2.0 OTG	2x USB 2.0, 1x USB 3.1 Gen1
Extension Ports	2x SDIO, 2x I2C, 3x SPI, 4x UART, 22x GPIO, 1x PWM, 2x ADC	2x SDIO, 6x I2C, 3x SPI, 4x UART, 19x GPIO, 1x PWM
Audio	1x I2S	1x I2S
PCI Express	1x PCIe Gen2 x1	1x PCIe Gen2 x1
SEMA Support	-	-
Power Supply	5.0 V DC+/-5%	5.0 V DC±5%
Operating Temperature	Standard: 0°C to 60°C / Industrial: -40°C to 85°C	-40°C to +85°C
Form Factor & Compatibility	OSM Size-L Rev.1.2, 45 x 45mm	OSM Size-L Rev.1.1, 45 x 45mm
OS support	yocto PROJECT	yocto PROJECT

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www.ipi.wiki

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