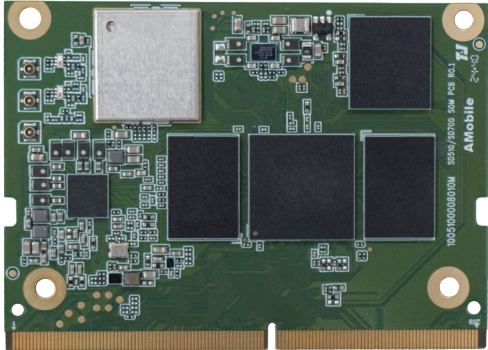




MEDIATEK

Features

- MT8370 Genio 510 (6nm) with 2 Cortex-A78 (2.0GHz) and 4 Cortex-A55 cores (2.0GHz).
- Optimized for lightweight AI and IoT with powerful AI acceleration.
- Built-in WiFi 5, Bluetooth 5.1, GbE, and expandable to WiFi 6/BT5.2, 4G & 5G
- Supports Android 14 & Yocto 4.0 (upgradable)
- Versatile I/O interfaces for different user scenarios.
- RTC function ensures clock memory retention during power-off.
- 10-year product longevity for industrial and commercial use.

System

Processor	Mediatek G510
CPU	2x CA78(2.0G)+4x CA55(2.0G)
GPU	Mali-G57 MC2
APU/NPU	1x MLDA3.0 + 1x VP6
Audio DSP	Tensilica HiFi5
Memory	LPDDR4X-3733Mbps, up to 8GB
Storage	eMMC5.1, 64GB, SDIO interface

Operating System

OS	Android 14, Yocto 4.0 Kirkstone(Kernel 5.15)
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Network

WiFi	802.11 a/b/g/n/ac, 2T2R
Bluetooth	BT 5.1
Ethernet	Gigabit Ethernet(RGMII)

Display Interface

eDP	up to 2560x1600 60fps
MIPI DSI	up to 1920x1200 60fps
HDMI	up to 4K 60fps
DP	up to 4K 60fps
Camera Interface	2x MIPI CSI

High-speed Interface

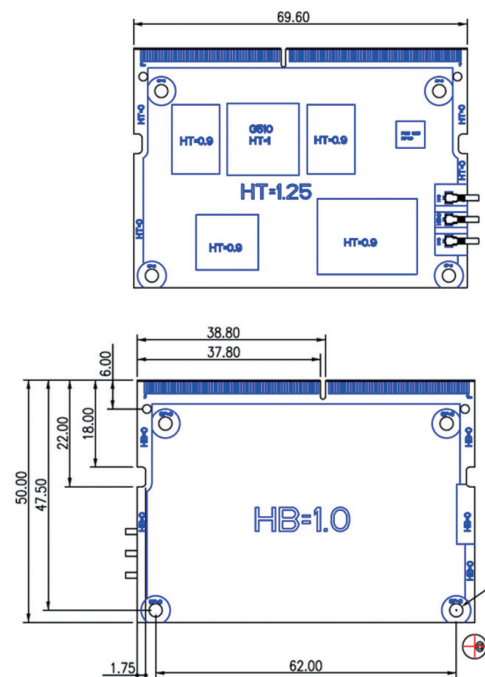
USB	1x USB2.0 Host, 1x USB2.0 OTG, 1x USB3.1
PCIe	1x PCIe2.0

Serial Port	2x UART 4-wires, 2x UART 2-wires
Audio	1x I2S, 1x PDM 2 channel (up to 4x PDM via SW configuration)
Other Interface	7x I2C, 2x SPI, 1x ADC, GPIO

Mechanical & Environmental

Dimension (L x W)	69.7mm x 50mm, SO-DIMM 260 edge connector
Weight	100 g
Operating Temp	-10°C ~ 60°C(Commercial), -20°C ~ 85°C(Extended)
Operating Humidity	0%~95% at 60°C(relative humidity; non-condensing)

Dimensions



All specifications are subject to change without notice. Last update: Nov.27.2024

