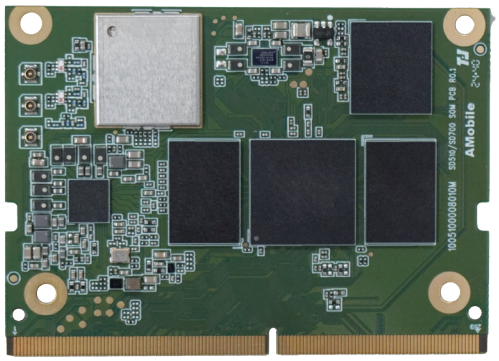
AMOBILE
Powered by MEDIATEK

SoM-SD700

Arm®-based System-on-Modules



Features

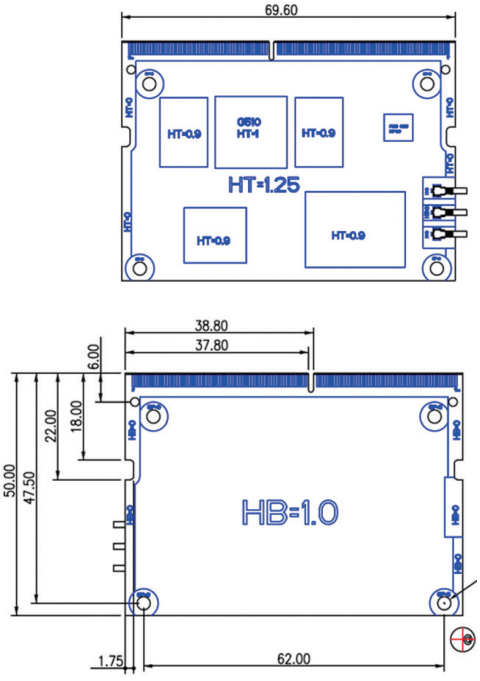
- MT8390 Genio 700 (6nm) with 2 Cortex-A78 (2.2GHz) and 6 Cortex-A55 cores (2.0GHz).
- Optimized for lightweight AI and IoT with powerful AI acceleration.
- Built-in WiFi 5, Bluetooth 5.1, GbE, and expandable to WiFi 6/BT5.2, 4G & 5G
- Supports Android 14 & Yocto 4.0 (upgradable)
- Versatile I/O interfaces for different user scenarios.
- RTC function ensures clock memory retention during power-off.
- 10-year product longevity for industrial and commercial use.

MEDIATEK

System	
Processor	Mediatek G700
CPU	2x CA78(2.2G)+6x CA55(2.0G)
GPU	Mali-G57 MC3
APU/NPU	1x MLDA3.0 + 1x VP6 / 4Tops
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)
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