

Features

- MT8391 Genio 721 (6nm) with 2 Cortex-A78 (2.6GHz) and 6 Cortex-A55 cores (2.0GHz).
- Optimized for lightweight AI and IoT with powerful AI acceleration.
- Built-in WiFi 6, Bluetooth 5.3, GbE, and expandable to WiFi 6/BT5.2, 4G & 5G
- Supports Android 15 & 5.0 Scarthgap
- 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 G721
CPU	2x CA78(2.6G)+ 6xCA55(2.0G)
GPU	Mali-G57 MC2
APU/NPU	1x MLDA3.0 + 1x VP6
Audio DSP	Tensilica HiFi5
RAM	LPDDR5: 6400MHz, 4GB
Storage	UFS2.2, SDIO interface
AI/NPU	NPU850, 9.0 TOPS

Operating System

OS	Android 15, Yocto 4.0 Kirkstone(Kernel 6.6)
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Network

WiFi	WiFi 6 802.11 a/b/g/n/ac, 2T2R (MT7921)
Bluetooth	BT 5.3
Ethernet	Gigabit Ethernet (1xRGMII)

Display Interface

Single Display	• MIPI: 2.5K60, 2.5K120 (w/ DSC)
	• LVDS: FHD60
Concurrent Dual Display	• eDP: up to 4K60 (w/Merge)
	• DP: 4L up to UW5K60 (w/ Merge), 2L up to 4K60(w/ Merge, DSC)
	• eDP+DSI
	• eDP+LVDS (FHD60)
	• eDP+DP
	• eDP+eDP

High-speed Interface

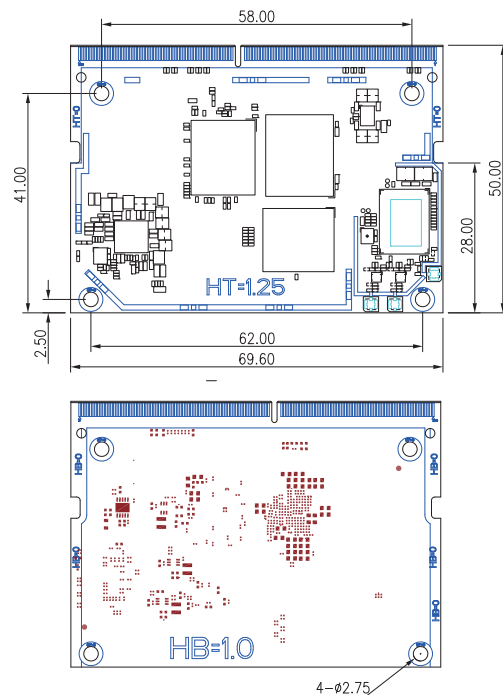
USB	3x USB 2.0, 2x USB3.2
PCIe	1x PCIe for 4G/5G module

Serial Port	2x UART 4-wires, 2x UART 2-wires
Audio	1x I2S, 1x PDM 2 channel
Other Interface	9x I2C, 2x SPI, 1x ADC, GPIO

Mechanical & Environmental

Dimension (L x W)	69.6mm x 50mm, SO-DIMM 260 edge connector
Weight	14 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: JAN.19.2026

