

MTB-620

MTK High-Performance Octa-Core AIOT Board



Feature:

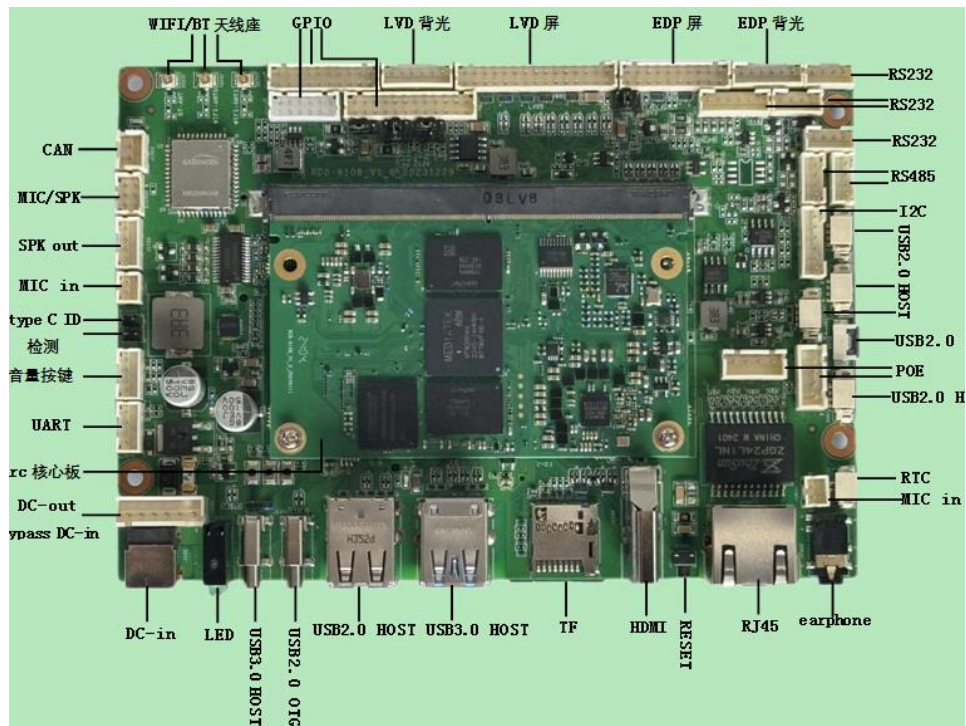
- MTK MT8390(Genio700) 2xA78+6xA55
- NPU 4.0TOPS
- HDMI、LVDS、EDP、DP
- 10xUSB、GbE、WiFi6&BT5.2
- Support 4G module 、POE Extension
- DC12V in、PD_OUT(TypeC)

Specifications

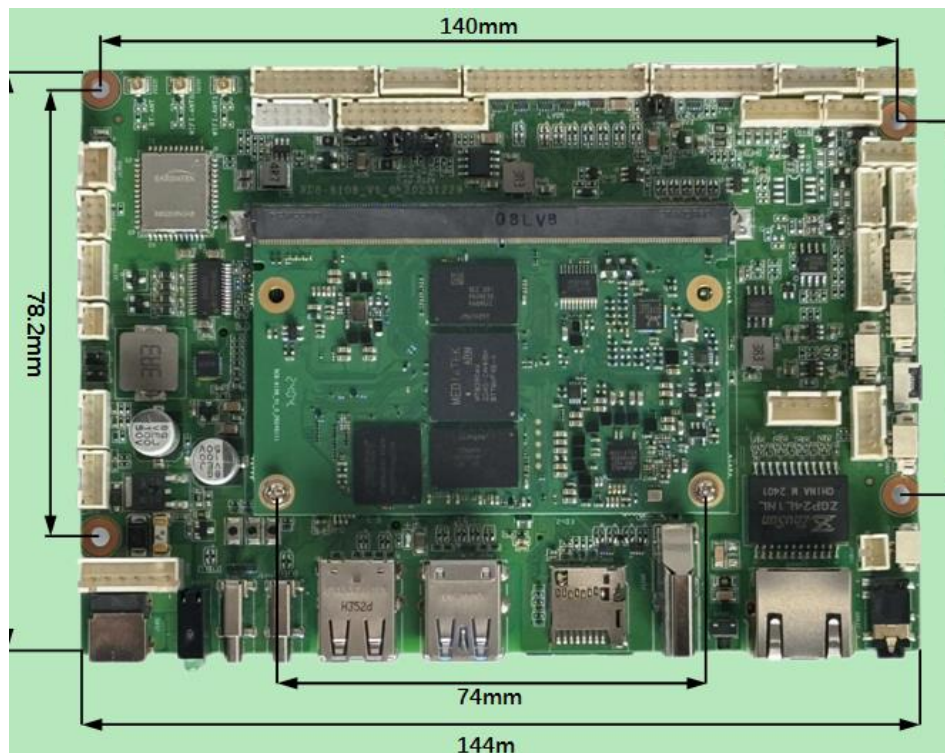
Processor	MT8390(Genio 700) 2xA78@2.2GHz+6xA55@2.0GHz NUP 4.0TOPS	
Memory	Onboard 8GB LPDDR4X	
	On-board 64GB eMMC, 1 TF slot	
I/O	HDMI type A port、EDP、Dual 8-bit LVDS、DP	
Camera	MIPI-CSI	1x30P B2B CN
Interfaces	Touch	IIC 6-pin FPC connector 6-pin PH2.0 terminal
	Microphone	2-pin PH2.0 socket
	Audio	Speaker: 2 x 5W 8 Ω , 4-pin PH2.0 socket Line out: 3.5mm 4-pole audio jack
	USB	1x USB Type-C OTG 2x USB 3.0 Type-A 1x USB 3.0 Type-C 5x USB 2.0, 4-pin GH1.25 socket 1x USB 2.0, 4-pin PH2.0 socket
	RS232	1x RS232, 9-pin GH1.25 socket 1x RS232, 6-pin GH1.25 socket
	OTHERS	IIC(FPC/PH2.0)/ GPIO/(for expansion)
	LTE	1x Mini PCIe slot 1x Standard SIM card slot
Connectivity	Ethernet	1x 10M/100M/1000Mbps RJ45 port (PoE supported)
	WiFi&BT	WiFi6 2T2R+BT5.2 1T1R(MT7921)
Power	voltage range	DC 12V input
	Power input interface	DC 2.5 terminal / PD_IN Type-C
	Power output interface	PD_OUT Type-C

Dimension	140mm(L)*110mm(W)	
Environment	Operating Temp	0° C to 60° C (0% to 90% RH, non-condensing)
	Storage Temp	-20° C to 70° C

Interface View



Dimension view



Production Selection

NO.	Part NO.	DDR	Memory	Wifi&BT	USB	RS232	LTE	Operating Temp
1	MTB-612-L01	8G	64GB	Yes	10	2	Minipcie socket	0°C60°C

Optional Accessories

Type	Model	Memory
4G Module	EC20CEFILG	Mainland China, Cat4, with Positioning, Mini PCIe
4G Module	EC20CEFHLG	Mainland China, Cat4, with Diversity, Mini PCIe
4G Module	EC200N-CN	Mainland China, Cat1, with Diversity, Mini PCIe