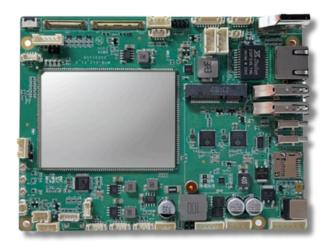


Drive into your future

MTB-613

Industrial AIOT Motherboard





Features

- MediaTek Genio 510 Dual-Core Cortex A78, 2GHz+ Quad-Core Cortex A55, 2GHz
- Built-in Integrated Mali-G57 GPU for High performance multimedia processing with low power consumption
- 8GB LPDDR4X Memory onboard and 64GB eMMC onboard design
- Comprehensive connectivity: Wi-Fi6 (2T2R) +BT5.2(1T1R) and 4G module via miniPCle socket
- Flexible Media output for selection: HDMI, LVDS, eDP, USB-C w/Alt DP Mode
- Rich IO: 10 x USB, 2xRS232, 1x GbE Ethernet (Support PoE), speaker, MIC, Line-out connectors
- Multiple OS Support : Android 13,Linux Yocto

Introduction

MTB-613 is a high-performance motherboard tailored for industrial AloT applications. Powered by the MediaTek Genio 510 (MT8370) processor, it features dual-core Cortex-A78 and quad-core Cortex-A55 running at up to 2GHz, alongside a dedicated Al accelerator for advanced tasks like image recognition and data analytics. With 8GB LPDDR4X memory and 64GB eMMC storage, it supports both Android 13 and Linux Yocto, offering flexible application development. Its extensive I/O options include HDMI, DisplayPort, eDP, USB-C (with video output), and PoE Ethernet, making it suitable for smart manufacturing, security, and retail environments. These interfaces enable seamless connections to displays, cameras, and network devices, meeting real-time data needs and making it an ideal choice for high-performance edge computing and industrial automation applications.

Specification Specific Action			
System	Processor	MT8370(Genio510) Dual-Core Cortex-A78@2GHz + Quad-Core Cortex-A55@2GHz	
	Memory	Onboard LPDDR4X 8GB	
	Storage	64GB eMMC onboard and 1 TF card slot	
	Display	HDMI Type A, Display Port, eDP, Dual 8-bit LVDS	
	Touch	Support I2C (6P PH 2.0mm Header)	
	Camera	MIPI-CSI	



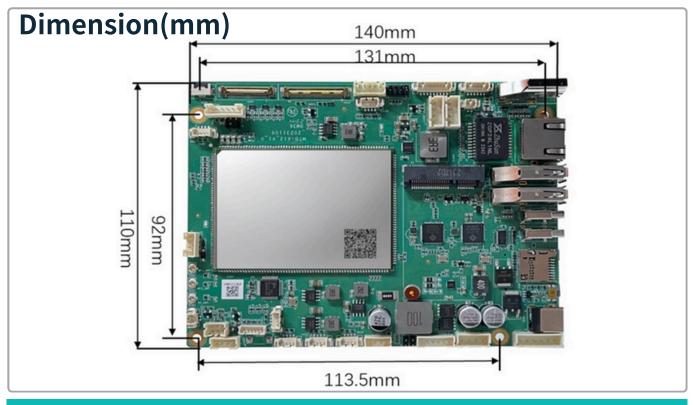


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MTB-613



Specification Specific Action			
Connectivity	Wi-Fi+BT	Wi-Fi6 (2T2R) +BT5.2(1T1R) (MT7921)	
	LAN	10/100/1000Mbps	
I/O Interface	Ethernet	1x RJ45 connector (Support PoE)	
	USB Port	2x USB 3.0 Type-A, 1x USB Type-C for OTG, 1x USB 3.0 Type-C w/ Alt DP mode; 1x USB 2.0 w/ 4P PH 2.0 header; 5x USB 2.0 w/ 4P GH 1.25mm	
	Audio	2x 5W/8Ω speaker out, w/ 4P PH 2.0 socket; 1x Line-out w/ 3.5mm, 1x MIC w/ 2Pin header	
	СОМ	1x RS232, 9P GH 1.25mm socket; 1xRS232, 6P GH 1.25mm socket; 1x TTL Debug Port, 4P PH 2.0 socket	
	Expansion	1x MiniPCle socket, 1x SIM Card Slot	
	Others	I2C, GPIO, 1x RESET Button	
Power Supply		12V DC Power Input; support 1x 2.5mm DC Jack , 1x Type-C PD	
Dimension		140x 110mm	
Operating Temperature		$0^{\circ}\text{C} \sim 60^{\circ}\text{C}$ (0% to 90% RH, non-condensing)	
Storage Temperature		-20°C ~ 70°C	
Operating System		Android 13/ Linux	





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