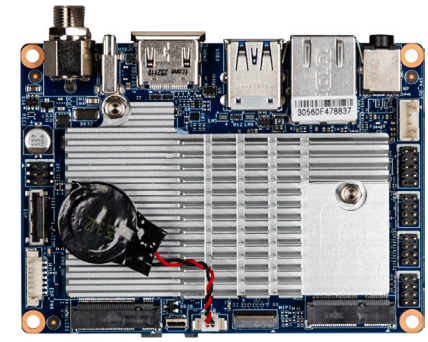
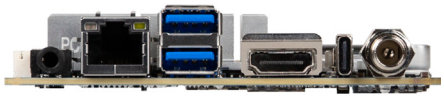
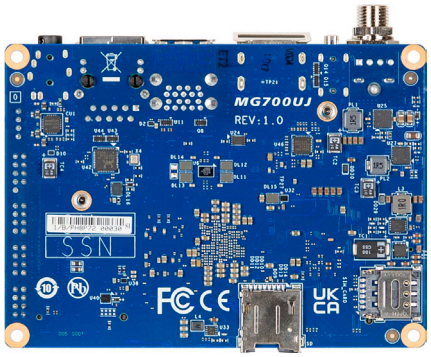
PICO Series

PICO-G700A (MG700UJ)

PICO-ITX with MediaTek Genio 700, Onboard LPDDR4X 8GB, eMMC 64GB, 2 x USB 3.0, 1 x USB Type-C OTG







Features

- PICO-ITX form factor
- MediaTek Genio 700 (MT8390)
- Onboard 8GB LPDDR4X
- eMMC 64GB
- HDMI, MIPI, eDP for dual Display support
- Wide voltage support 12~24V

Specifications

Form Factor	PICO ITX 100W x 72D (mm)
CPU	MediaTek Genio 700 (MT8390) : 2 x Arm Cortex-A78, 2.2GHz 6 x Arm Cortex-A55, 2.0GHz
AI Inference Computing Power	MediaTek 5th-Gen NPU 4.0 TOPS (1x MDLA3.0 + 1x Tensilica VP6)
Memory	Onboard 8GB LPDDR4X
Ethernet	Realtek® RTL8211F-CG (10/100/1000 Mbps)
Video	Arm Mali-G57 MC3 GPU, Support OpenGL ES 1.1/2.0/3.2, and Vulkan 1.0/1.1 : 1 x HDMI 2.0, supporting a maximum resolution of 4096x2160 @60Hz (Android only 1920x1200 @60Hz) 1 x MIPI-DSI (DSI 7" 1920x1200) (supports panel model : SHENZHEN STARTEK KD070FHFID078-01-C021A) 1 x eDP (2 x Lan), supporting a maximum resolution of 1920x1080 @60Hz (supports panel model : BOE PV156FHM-N20) * (2 independent display outputs)
Audio	MT6365 (Integrated)
Storage	eMMC v5.1 64GB (on board)
Expansion Slots	1 x 2230 M.2 E-key slot (PCIe x1, USB2.0), supports WiFi6 : Azurewave AWXB468NF (IC:MT7921L) 1 x 3052 M.2 B-Key slot (USB3.0), supports 5G : QUECTEL RM500K-CN / RM520N-GL
Internal I/O	1 x Front panel header 1 x Speaker header 2 x UART 1 x GPIO (8 bits) header 1 x MIPI-DSI 2 x USB 2.0 headers 1 x eDP power header 1 x Nano SIM card slot 1 x Micro SD card slot
Rear I/O	1 x DC In power jack - System adapter 12~24V 2 x USB 3.0 Ports (Host) 1 x USB Type C (OTG) 1 x RJ45 LAN Port 1 x HDMI 1 x Combo audio jack (Headphone & Headset)
OS Compatibility	Yocto 24.1 * Ubuntu 22.04 * Android 13 (by demand)
Operating Properties	Operating temperature: -20°C to 60°C Operating humidity: 60°C @ 20-95% (non-condensing) Non-operating temperature: -40°C to 85°C Non-operating humidity: 85°C @ 95% (non-condensing)
Order Information	9MG700UJMR-SI (Box packing)

* If other eDP panel supported is needed, please contact with your sales representitives for more information.
* Yocto OS does not support hot-plug. Please make sure to plug-in Headset before booting up the system.
* Ubuntu OS supports single audio channel only.

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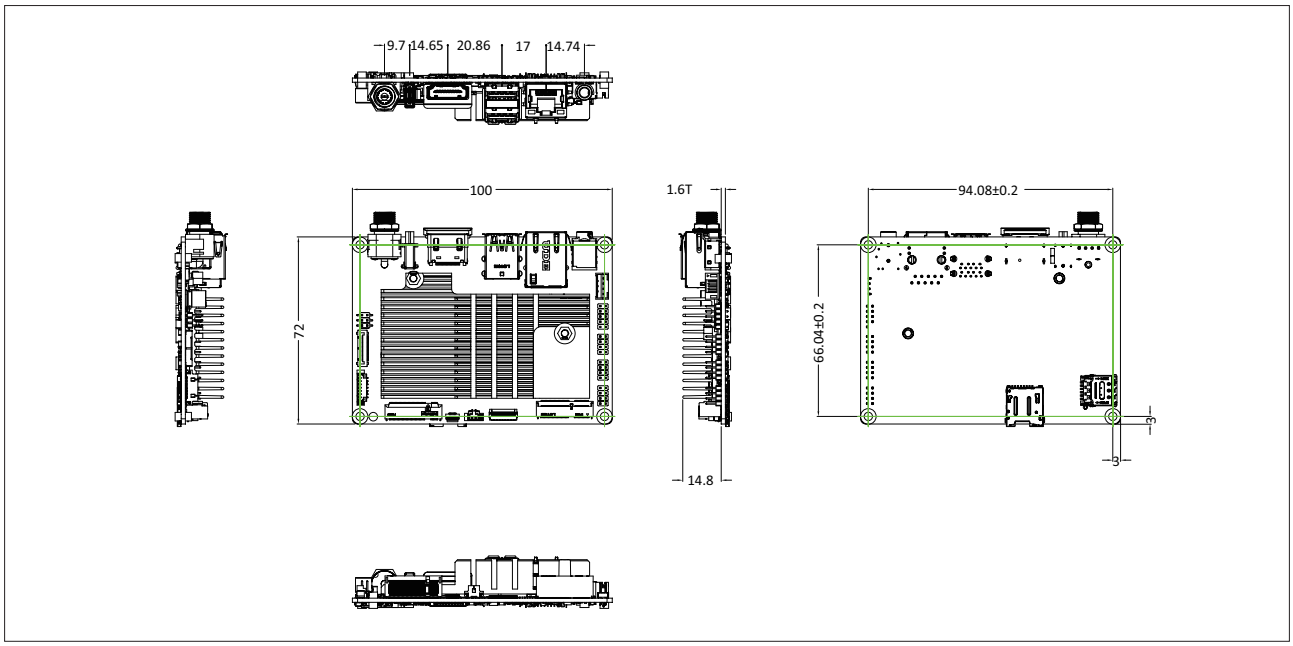
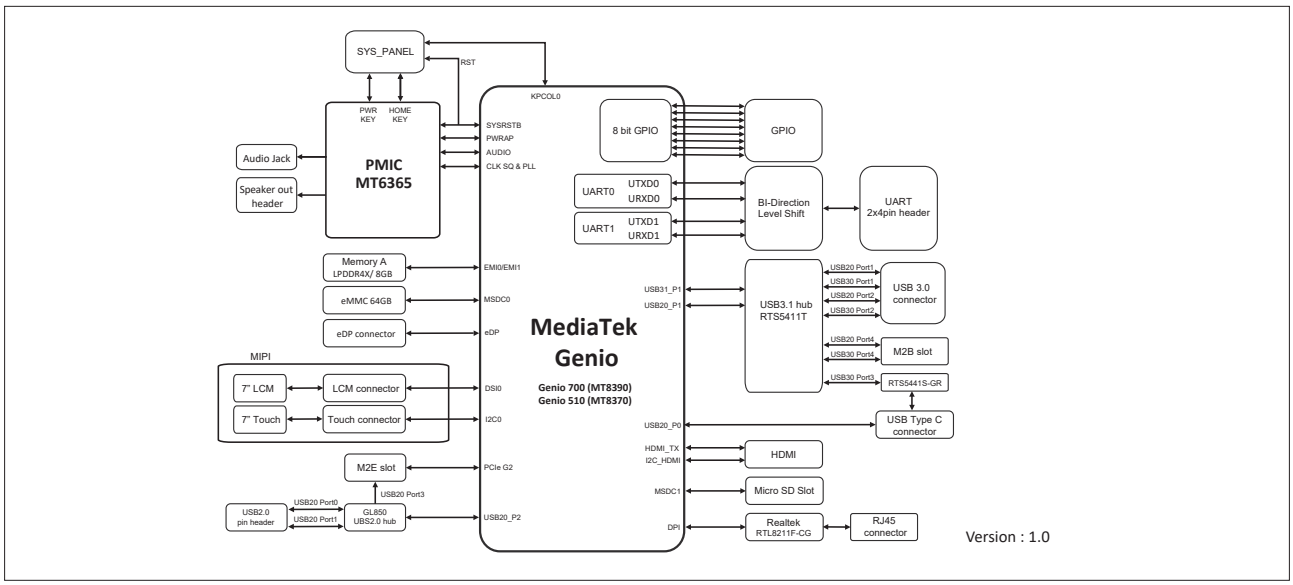
Dimension (Unit: mm)

2026/04/15



Block Diagram



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