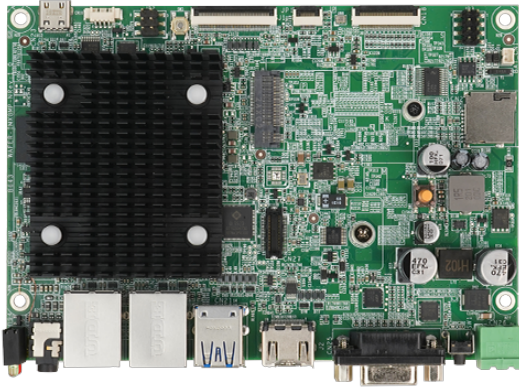


# WAFER-IMX8MP

3.5" SBC supports NXP i.MX 8M Plus Processors with 4GB LPDDR4 memory & 16 GB eMMC NAND FLASH on board default, dual display and MIPI\_CSI, I<sup>2</sup>C, GPIO, dual GbE Lan, USB 3.2 Gen 1, Full RS-232, 0°C~70°C and RoHS



## Features

- » 3.5" SBC with NXP i.MX 8M Plus Quad processor on-board SoC
- » 4GB LPDDR4 memory (up to 8GB) & 16GB eMMC NAND flash (up to 128GB)
- » Dual displays with HDMI™, MIPI DSI and camera MIPI CSI input
- » Rich I/O: GbE RJ45, USB 5Gb/s, full RS-232/422/485, micro SD slot
- » M.2 B Key Slot (3G/LTE/5G module optional)
- » Optional Wi-Fi 5 / Wi-Fi 6 / Bluetooth 5.0
- » OS supports Android 12 / Yocto 4.0 (Linux Kernel 5.10)

## Specifications

Form Factor	
Form Factor	3.5" SBC
System	
CPU	» Processor: NXP i.MX 8M Plus Quad (Quad-core Cortex-A53 up to 1.8 GHz) » GPU: GC7000UL 3D (2 shaders), GC520L » NPU: up to 2.3 TOPS
Memory	4GB LPDDR4-3200
Memory Max.	up to 8GB
Cooling method / System Fan	Heatsink
Supported OS	Android 12, Yocto 4.0
Physical Characteristics	
Dimensions (LxWxH) (mm)	146 x 102
Storage	
Storage	eMMC : 16GB eMMC NAND flash, up to 128GB SD/MicroSD card : Micro SD slot
I/O Interface	
Display Output	1 x HDMI™ : output 2.0a Type A, up to 4K 1 x MIPI DSI : 4 lanes (40-pin 0.5mm FPC 90°)
Ethernet	2 x LAN : GbE RJ45
Audio	Description: 1 x 3.5mm Audio Jack (Mic-in & Line out) 2 x Speaker (3W/8Ω)
I/O Interface	1 x External RS-232/422/485 (DB9 Port) GPIO : 8 bit (4 in / 4 out, pin header) 1 x I <sup>2</sup> C (for Touch, 8-pin 2.0mm FPC) 1 x Internal RS-232/422/485 : RS-232/RS-485 (2x3 pin header)
Expansion	3 x USB - 2 x Type-A (5 Gb/s) 1 x Type-C (Support USB 2.0 for download) 1 x M.2(NGFF) : B Key Slot (3G/LTE/5G module optional) 1 x PCIe x1 (Gen 3)
Wireless	
Wi-Fi	Support Wi-Fi 5/6 (B to B IEI module optional)

Bluetooth	Bluetooth V5.0 optional
Other Features	
Camera	1 x MIPI CSI 4 lanes (30-pin 0.5mm FPC)
Power	
Input	12V DC
Environment	
Operating Temperature	0°C ~ 70°C with air flow
Storage Temperature	-20°C ~ 80°C
Humidity	10% ~ 99% (non-condensing)
Certifications	
Safety & EMC	EMC Class B

## Ordering Information

WAFER-IMX8MP-A/BD-R10	3.5" SBC supports NXP i.MX 8M Plus Processors with 4GB LPDDR4 memory & 16GB eMMC NAND Flash, Android platform
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## Packing List

1 x WAFER-IMX8MP single board computer	1 x Pluggable female terminal block
1 x QIG	