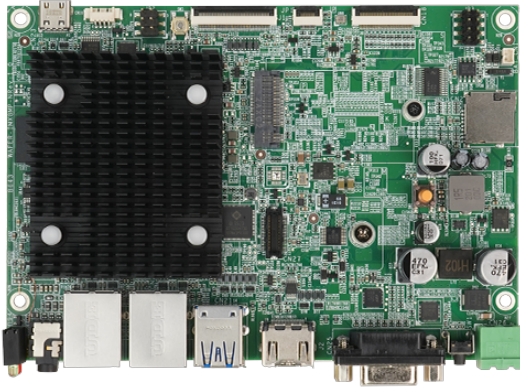


WAFER-IMX8MP

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, I²C, 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 13 / Yocto 4.0 (Linux Kernel 5.10)

Specifications

尺寸类型	
尺寸类型	3.5" SBC
系统	
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
内存	4GB LPDDR4-3200
内存上限	up to 8GB
散热方案/系统风扇	Heatsink
支持的操作系统	Android 13, Yocto 4.0, Ubuntu 22.04
物理特性	
尺寸 (LxWxH) (mm)	146 x 102
存储	
存储	SD/MicroSD card : Micro SD slot eMMC : 16GB eMMC NAND flash, up to 128GB
I/O 接口	
显示输出	1 x HDMI™ : output 2.0a Type A, up to 4K 1 x MIPI DSI : 4 lanes (40-pin 0.5mm FPC 90°)
网络	2 x LAN : GbE RJ45
音频	描述: 1 x 3.5mm Audio Jack (Mic-in & Line out) 2 x Speaker (3W/8Ω)
I/O接口	1 x 外部RS-232/422/485 (DB9 Port) 1 x 内部RS-232/422/485 : RS-232/RS-485 (2x3 pin header) 1 x I ² C (for Touch, 8-pin 2.0mm FPC) GPIO : 8 bit (4 in / 4 out, pin header)
扩展	3 x USB - 2 x Type-A (5 Gb/s) 1 x Type-C (Support USB 2.0 for download) 1 x PCIe x1 (Gen 3) 1 x M.2(NGFF) : B Key Slot (3G/LTE/5G module optional)
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)
电源	
Input	12V DC
环境	
操作温度	0°C ~ 70°C with air flow
存储温度	-20°C ~ 80°C
Humidity	10% ~ 99% (non-condensing)
认证	
Safety & EMC	EMC Class B

Ordering Information

WAFER-IMX8MP-Y/BD-R10	3.5" SBC supports NXP i.MX 8M Plus Processors with 4GB LPDDR4 memory & 16GB eMMC NAND Flash, Yacto platform
WAFER-IMX8MP-U/BD-R10	3.5" SBC supports NXP i.MX 8M Plus Processors with 4GB LPDDR4 memory & 16GB eMMC NAND Flash, Ubuntu platform
WAFER-IMX8MP-D/BD-R10	3.5" SBC supports NXP i.MX 8M Plus Processors with 4GB LPDDR4 memory & 16GB eMMC NAND Flash, Debian platform
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

Packing List

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