

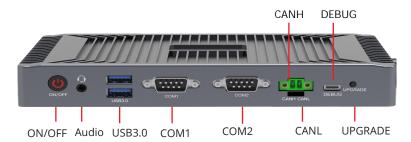
BPC-iMX8MP-08 Industrial Computer

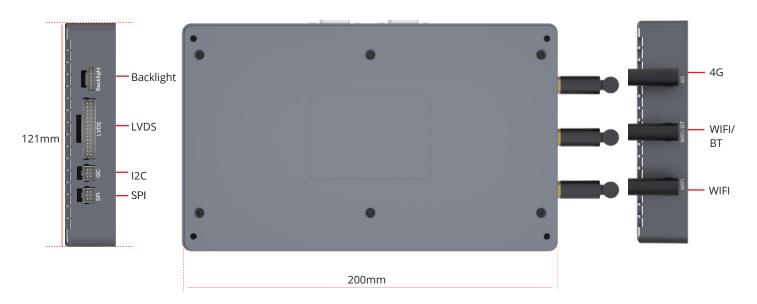


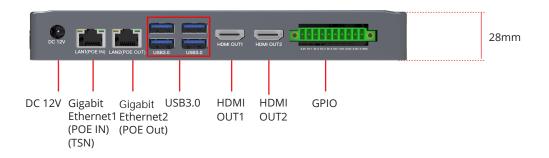
Industrial Computer Based on NXP i.MX 8M Plus Processor Overview:

BPC-iMX8MP-08 Industrial Computer is composed of a DEBIX customized board and an aluminium alloy enclosure. Engineered for industrial applications with fanless design and compact appearance, it comes with rich interfaces including 4 x DI, 4 x DO, and 1 x CAN. It has strong network connectivity with dual Gigabit Ethernet supporting IEEE 802.3 af, one for POE PSE and the other for POE PD and TSN, 2.4GHz & 5GHz Wi-Fi and Bluetooth 5.3, supports 4G/5G via Mini PCIe. And two HDMI OUT, one LVDS support 4K@30Hz + 1080P@60Hz Dual screen display.

I/O Interfaces and Dimension:







Specification:

Dimension

System		
CPU	NXP i.MX 8M Plus, 4 x ARM Cortex-A53, 1.6GHz, 2.3 TOPS NPU	
Memory	2GB LPDDR4 (4GB/8GB optional)	
Storage	16GB eMMC (32GB/64GB/128GB/256GB optional)	
OS	Android 11, Ubuntu 20.04, Debian 12.6, Yocto-L6.6.23_2.2.0, Windows 10 IoT Enterprise (4GB/8GB LPDDR4 version)	
Communication		
Gigabit Ethernet	$2 \times Gigabit Ethernet ports (independent MAC address), support IEEE 802.3af (1 x POE PD & TSN, 1 x POE PSE)$	
WIFI & BT	1 x M.2 2230 2.4GHz & 5GHz WIFI and BT5.3 Combo Module (optional)	
4G	1 x Mini PCle for 4G/5G Module (optional)	
Antenna	3 x ANT (1 x 4G Main ANT, 1 x WiFi Main ANT, 1 x WiFi Diversity ANT+BT Main ANT)	
HDMI	2 x HDMI OUT	
LVDS	1 x LVDS, single & dual channel 8 bit	
Backlight	1 x Backlight for LVDS	
Audio	1 x 3.5mm Headphone and Mic combo port	
I/O Interface		
LED & KEY	(1) 1 x ON/OFF System Key with LED (2) 1 x Upgrade Key (eMMC firmware upgrade and update for system storage)	
DC IN	1 x DC IN female connector	
USB 3.0	6 x USB 3.0 Host	
Debug	1 x System Debug	
COM	2 x COM (RS232 for default, supports RS485 via internal DIP switch)	
CAN	1 x CAN	
I2C	1 x I2C	
SPI	1 x SPI	
DIN/DO	(1) 4 x Digital Output (2) 4 x Digital Input	
Power Supply		
Power Supply	DC 12V/3A	
Mechanical & Environmental		

200.0mm x 121.0mm x 28.0mm (±0.5mm)

(Continued)

Mechanical & Environmental	
Net Weight (PCBA)	175g (±0.5g)
Net Weight (PCBA+Enclosure)	637g (±0.5g) (excluding antennas)
Operating Temp.	-20°C ~ +70°C (-40°C ~ +85°C optional)
Enclosure Color	Grey (Black is optional)
Enclosure Material	Aluminum alloy

Safety Instruction:

To avoid malfunction or damage to this product please observe the following:

- Disconnect the device from the DC power supply before cleaning. Use a damp rag. Do not use liquid detergents or spray-on detergents.
- Keep the device away from moisture.
- During installation, put the device on a reliable table. It will be damaged if you drop it.
- Before connecting the power supply, ensure that the voltage is in the required range.
- The air vent in the bottom of the enclosure is used for heat dissipation. To prevent the device from overheating, don't cover the hole.
- Put the power cable in place to avoid stepping on it.
- If the device is not used for a long time, power it off to avoid damage caused by sudden overvoltage.
- Do not pour liquid into the hole of the enclosure, as this could cause fire or electrocution
- For safety reasons, the device can only be disassembled by professional personnel.
- Do not place the device in a place where the ambient temperature is below -20 $^\circ$ C or above 70 $^\circ$ C. This will damage the machine. It needs to be kept in an environment at controlled temperature.

Contact Us:

Headquarters: DEBIX Technology Inc., 8345 Gold River Ct., Las Vegas, NV 89113, USA Factory: 5-6/F., East Zone, Shunheda A2 Building, Liuxiandong Industrial Park, Xili, Nanshan

Dist., Shenzhen, China Email: info@debix.io Website: www.debix.io

Community: https://discord.com/invite/adaHHaDkH2

