

BPC-iMX8MP-08 Industrial Computer

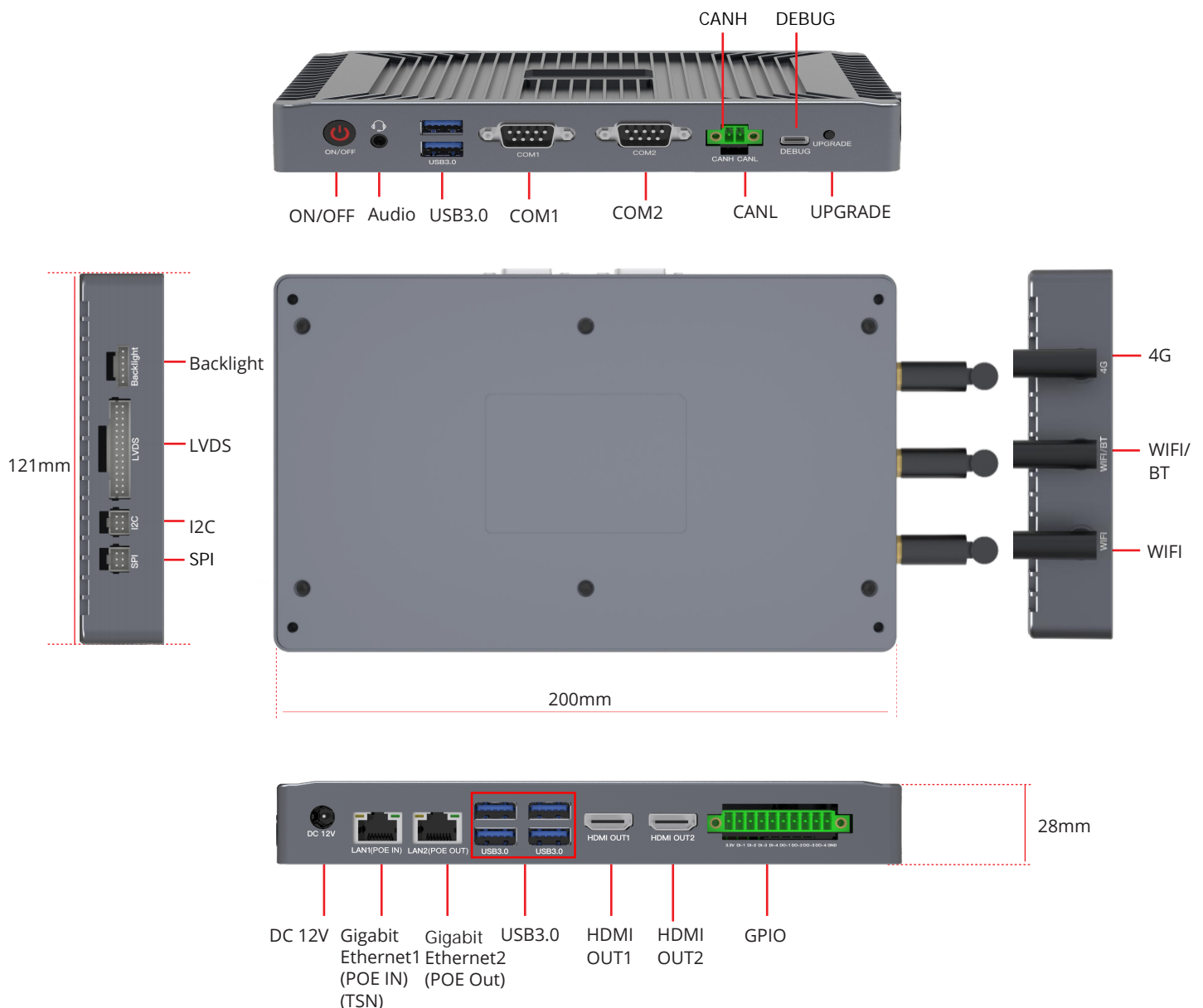


Industrial Computer Based on NXP i.MX 8M Plus Processor

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:

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 x 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 PCIe 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	
Dimension	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

Compatible with DEBIX's Accessories:

Product	Model
DEBIX Display Screen	DEBIX TD050H
	DEBIX TD070H
	DEBIX TD101H

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 -40°C or above 85°C . This will damage the machine. It needs to be kept in an environment at controlled temperature.

Contact Us:

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