



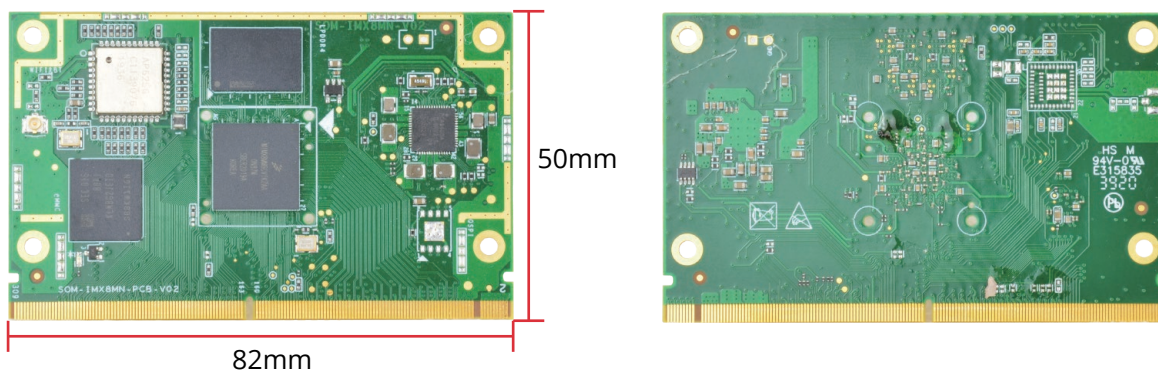
System on Module Based on NXP i.MX 8M Mini CPU

Introduction:

SOM-iMX8MM is a commercial & industrial grade core board based on NXP i.MX 8M Mini CPU, and it comes with onboard 4GB RAM and 32GB eMMC. SOM-iMX8MM supports Android 10.0 operating system and a variety of interfaces like SPDIF, DSI, CSI, USB2.0 & USB OTG, GPIO, etc. For network connection, it supports WIFI-2.4Ghz/5Ghz, BT5.0 and 10Mbps/100Mbps/1000Mbps network port.

Features:

- NXP i.MX 8M Mini CPU
- Android 10.0 operating system
- Onboard 4GB RAM, 2GB optional
- 32GB eMMC, 8GB/16GB/64GB/128GB optional
- 10Mbps/100Mbps/1000Mbps LAN, WIFI-2.4GHz/5GHz, BT5.0



Specification:

System	
CPU	MIMX8MM6CVTKZAA:Quad Cortex®-A53, 1.6GHz (Support Commercial & Industrial i.MX 8M Mini SoloLite/Solo/DualLite/Dual/QuadLite/Quad)
Memory	Onboard 4GB LPDDR 4, 2GB optional
Flash	32GB eMMC5.1, Support 8GB/16GB/64GB/128GB
OS	Android 10.0, Ubuntu 18.04 server, Yocto 2.5.2
Communication	
WIFI & BT	WIFI-2.4GHz/5GHz, BT5.0
LAN	1 x 10Mbps/100Mbps/1000Mbps network port

Connectivity

SDIO	1 x SDIO
CSI	1 x CSI
DSI	1 x DSI
PCIe	1 x PCIe
USB	1 x USB2.0 , 1 x USB OTG
SPI	2 x SPI
QSPI	1 x QSPI
I2C	4 x I2C
UART	3 x UART
JTAG	1 x JTAG
I2S	1 x I2S
SAI	1 x SAI , 8 Channel
GPIO	16 x GPIO
SPDIF	1 x SPDIF
Physical interface	MXM3.0 (Standard 314Pin)

Power

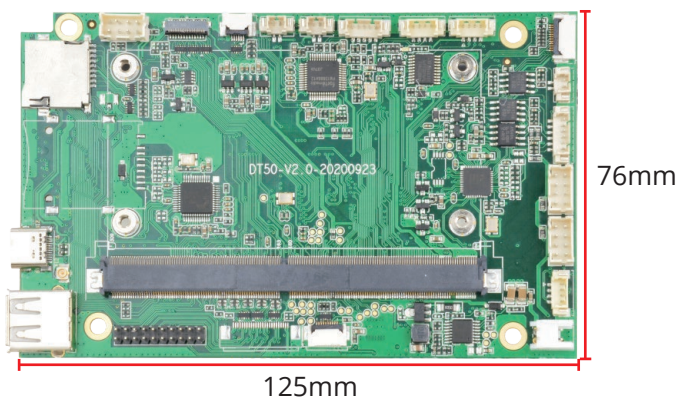
Power In	5VDC/2A
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Mechanical

Size	82mm x 50mm x 1.2mm
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SOM-iMX8MM is compatible with the following Carrier Board:

Model: BMB-01



Carrier Board Specification:

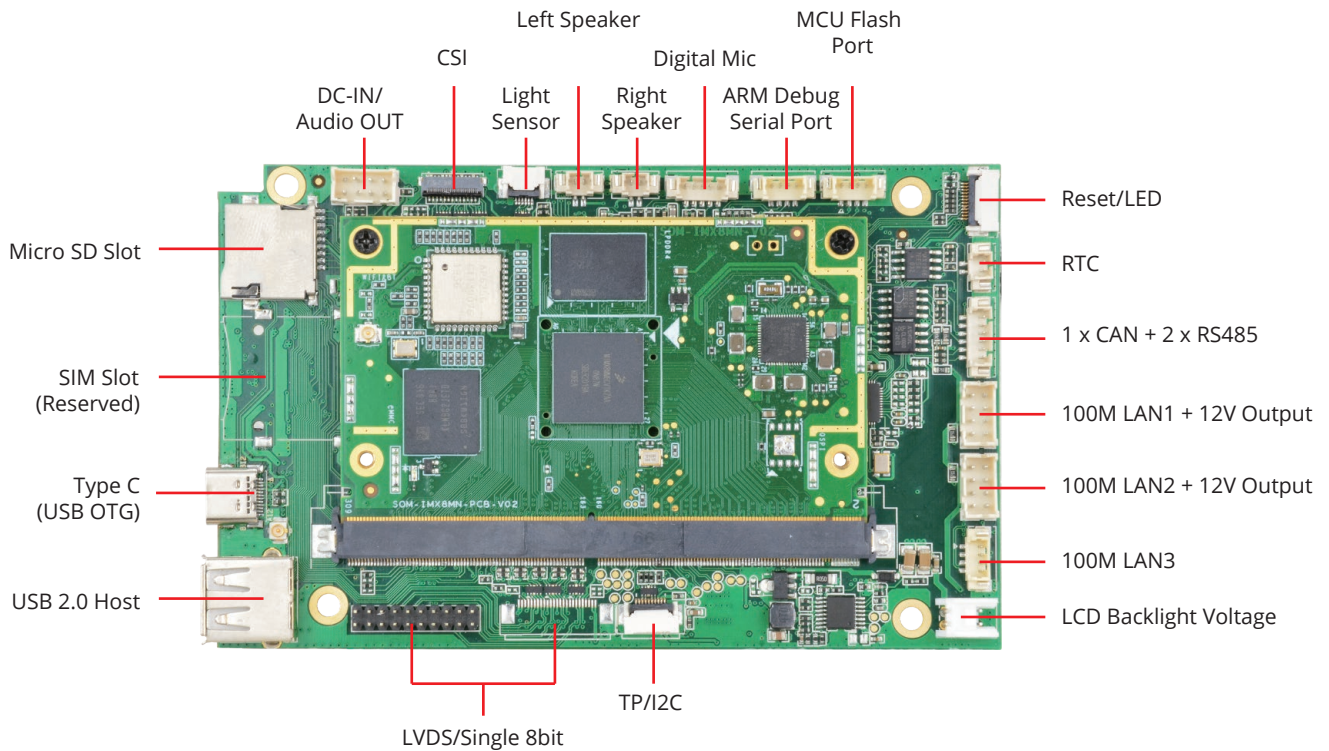
Interfaces**BMB-01**

LAN	3 x 100Mbps Network Port
WIFI	Insert WIFI IEEE802.11 a/b/g/n, support AP mode
Bluetooth	Support BT5.0
Display	1 x TP/I2C, 1 x LVDS/Single 8bit
Audio	1 x Left Speaker, 1 x Right Speaker, 3 x Digital Mic
CSI	1 x CSI
USB	1 x USB 2.0 Host Type-A, 1 x USB OTG Type-C



Micro SD Slot	1 x Micro SD Slot (Max. 128GB)
SIM Slot	1 x SIM Slot (Reserved)
Debug	1 x ARM Debug Serial Port
MCU Flash	1 x MCU Flash Port
CAN	1 x CAN
RS485	2 x RS485
RTC	1 x RTC
Power Supply	12V/1A
Button & Light	1 x Reset Button/LED Light, 1 x Backlight
Sensor	1 x Light Sensor
Size	125mm x 76mm

Interface Diagram:



ABOUT POLYHEX

As a board level and system level designer and manufacturer, Polyhex, with 9-year experience, always delivers best-in-class embedded computing solutions

