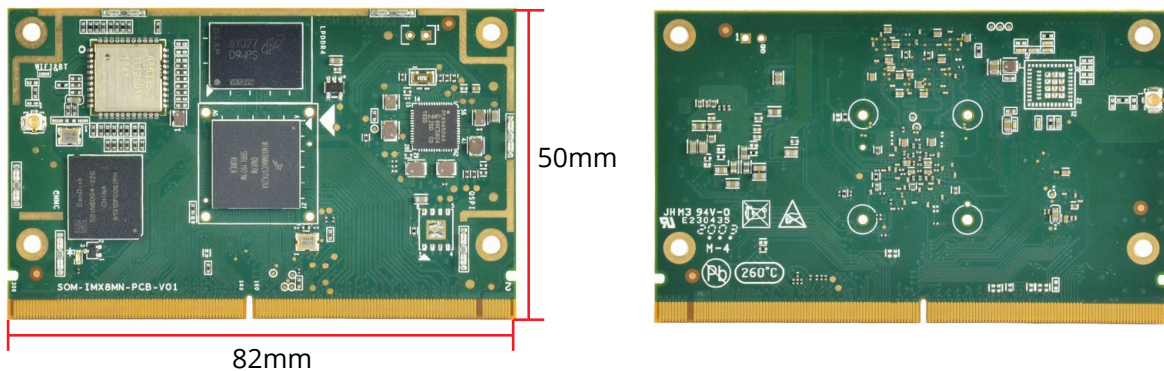POLYHEX

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

Introduction:

SOM-IMX8MN is a consumer & industrial grade core board based on NXP i.MX 8M Mini CPU, and it comes with onboard 4GB RAM and 32GB eMMC. SOM-IMX8MN supports Android 10.0 operation system and a variety of interfaces like HDMI, SPDIF, DSI, CSI, USB2.0 & USB OTG, GPIO, etc. For internet connection, it is perfectly compatible with WIFI-2.4Ghz/5Ghz, BT4.0 and 10/100/1000M LAN.

Features:

· NXP i.MX 8M Mini CPU

· Android 10.0 operating system

· Onboard 4GB RAM 2GB optional

· 32GB eMMC 8GB/16GB/64GB/128GB optional

· 10/100/1000M LAN, WIFI-2.4GHz/5GHz, BT4.0

50mm

82mm

Specification:

System	
CPU	MIMX8MM6CVTKZAA:Quad Cortex®-A53, 1.6GHz
	(Support Consumer&Industrial i.MX8M Mini SoloLite/Solo/DualLite/Dual/QuadLite/Quad)
Memory	Onboard 4GB LPDDR 4, Support2GB
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, BT4.0
LAN	1 x 10/100/1000M LAN Port
Connectivity	
SDIO	1 x SDIO
HDMI	1 x HDMI OUT
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
Mechanical	
Size	82 x 50 x 1.2mm

POLYHEX
Beyond the Embedded Deployment