

OSM-IMX8MM

Open Standard Module-Computer on Module
with NXP i.MX8M Mini Arm Cortex-A53



Product Features

- OSM 1.1 size-L type 45*45mm
- 2GB LPDDR4
- Wide operating temperature: -40~85°C
- Enhanced reliability for mobile edge devices
- 8GB eMMC
- OS supports Yocto 2.5 and 4.0

Specification

System Information

System Memory	2GB LPDDR4
Processor	Quad-core Cortex-A53 Core Cortex-M4
Chipset	NXP iMX8M Mini Arm

Storage

Storage	8GB eMMC 5.1
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OSM Module I/O

PCIe	1 x 2.0
GPIO	x 24 (3 share with PWM)
HDMI	x 1 , 4k60Hz
I2C	x 3
MIPI CSI	x 1 (4 lane)
MIPI DSI	x 1 (4 lane)
SPDIF	x 1

I2S	x 1
SPI	x 2
LAN	1 x Ethernet 1000M
SDIO	2 x SDIO 3.0
COM	1 x debugging port 3 x UART
USB Port	2 x USB Host 2.0

Certifications

Certification Information	CE, FCC Class B
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Mechanical & Environmental

Storage Temperature	-40~85 Degree
Dimension	45mm x 45mm (Size-L)
Power Requirement	DC input voltage 5V
Operating Humidity	5% to 95%, non-condensing
Operating Temperature	Industry: -40~80 Degree

Software Support

OS Information	Yocto 2.5 and 4.0
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Ordering Information

Ordering Information	TBD
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Development board Interfaces

Gigabit Ethernet	x 1 Port(JP2 Support POE PD Function with POE Module)
Wi-Fi/BT	AP6275S module,support 802.11 a/b/g/n/ac
USB	x 2 (2 x USB 2.0 Type A, 1 x Expansion Connector)
Micro SD Slot	x 1
SIM Card Slot	x 1
Mini-PCIE	x 1 (Support 4G module)
MIPI CSI	x 1
IR Module	x 1 (Support USB IR RECEIVE MODULE)
Speaker	x 1

DC-IN	12V/2A
SW	K1 (Recovery mode)
Dimensions	125 x 120 mm