

OSM-3568

Open Standard Module-Computer on
Module with Rockchip RK3568J Quad-core
Cortex-A55



Product Features

- OSM 1.1 size-L type 45*45mm
- 2GB LPDDR4
- OS supports Debian 11, Andriod 11
- Enhanced reliability for mobile edge devices
- 16GB eMMC
- Wide operating temperature: -40~85°C

Specification

System Information

System Memory	2GB LPDDR4
Processor	Quad-core Cortex-A55
Chipset	Rockchip RK3568J

Storage

Storage	16GB eMMC 5.1
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OSM Module I/O

PCIe	1 x 3.0 1 x 2.0
GPIO	x 24
LVDS	x 1 single channel (share with MIPI DSI)
HDMI	x 1, 4k60Hz
I2C	x 3
eDP	x 1
MIPI CSI	x 1 (4 lane)

MIPI DSI	x 2 (4 lane) one share with LVDS
SPDIF	x 1
I2S	x 2
SPI	x 2
CAN	x 2
SDIO	2 x SDIO 3.0
COM	1 x debugging port 2 x UART
Network	2 x RJ45, 1000M
USB Port	1 x USB Host 3.0 1 x USB OTG 3.0 2 x USB Host 2.0

Certifications

Certification Information	CE, FCC Class B
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Mechanical & Environmental

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

Software Support

OS Information	Linux Debian 11 (First), Android 11
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Ordering Information

Ordering Information	TBD
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Development board Interfaces

Gigabit Ethernet	RJ45 (100M/1000M Ethernet)x2
USB	2 x USB 3.0 Host, 2 x USB 2.0 Host, 1 x USB Type C(OTG)
Mini-PCIE	x 1
MIPI CSI	x 1
MIPI DSI	x 1

DC-IN	x 1
SW	K1 (Recovery mode)
Dimensions	125 x 120 mm
Display	Support HDMI x 1 /eDP x 1, MIPI DSI interface
CAN	x 2
SPI	x 1
UART	x 2
Adapter	DC input voltage 12V