

SOM-RK391

SOM

Rockchip® RK3399 Processor System on Module



Features

- Soldered onboard Rockchip® RK3399 processor
- A large form factor of SOM family
- Mali-T860MP4 GPU supports OpenGL ES1.1/2.0/3.0/3.1, OpenVG1.1, OpenCL, DX11
- Various display interfaces for application: -eDP, MIPI DSI & HDMI
- **Extended operating temp.: -10 ~ 70°C**

System

Form Factor	SOM-1-L
Dimension	69.6 x 70 mm
Processor	Dual-Core Cortex A73+Quad-Core Cortex-A53
Memory	LPDDR4 2GB, optional to 4GB
Storage	16GB eMMC Flash, support SD Card boot up
Graphics	Mali-T860MP4 GPU
LAN	1x GbE
WiFi+BT	2T2R 802.11 a/b/g/n/ac Wifi + BT 5.0, real simultaneous dual-band (RSDB)
Display	1x HDMI, 1 x MIPI DSI, 1 x eDP
Camara	2 x MIPI CSI RX interface with 13MP ISP
Audio	Supported 2 x 1W Speaker; Supported 2 x Analog Microphone; Supported 1 x Digital Microphone; Supported 1 x Headphone

I/O

USB 2.0	4
USB 3.0	2 (Type C)
Serial Ports	2 UART ports, 2-wire; 2 UART ports, 4-wire
RTC	Supported
ADC	10-bit resolution; Up to 1MS/s sampling rate; 3 port 1.8V range single-ended input channels
SDIO	Supported
DIO	8-bit DI, 8-bit DO
GPIO	Supported
SPI	2
I2C	2

OS Support

Linux: Ubuntu, Buildroot, Android 9.0

Mechanical & Environmental

Power Requirement	5V/3A
Power Consumption	TBD
Operating Temp.	-10°C-60°C (14~140°F)
Operating Humidity	10 ~ 95% @ 70°C (non-condensing)
Dimension (L x W)	69.6 x 70 mm (2.74" x 2.76")