



# SOM-RP301

# SOM

## Rockchip® PX30 Processor System on Module



### Features

- Soldered onboard Rockchip® PX30 processor
- A small form factor of SOM family with **fanless design**
- LVDS and MIPI DSI port share the same pin out
- **Extended operating temp.: -10 ~ 70°C**

### System

Form Factor	SOM-1-S
Dimension	69.6 x 50 mm
Processor	Quad-Core ARM Cortex-A35, 1.5GHz
Memory	LPDDR3 1GB, optional to 4GB
Storage	16GB, support SD card boot up
Graphics	Mali-G31 GPU
LAN	1x 10/100 Ethernet port
WiFi+BT	1 x 802.11 a/b/g/n/ac and BT 4.0
Display	LVDS or MIPI DSI
Camara	1x MIPI-CSI RX interface with 8MP ISP
Audio	Supported 1 x 1W (@4Ω )Speaker; Supported 1 x Analog Microphone; Supported 1 x Digital Microphone; Supported 1 x Headphone out
<b>I/O</b>	
USB 2.0	4 x USB2.0 with USB hub
USB 3.0	N/A
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	N/A
GPIO	Supported
SPI	2
I2C	2
<b>OS Support</b>	
Linux: Ubuntu, Buildroot, Android 9.0	

### Mechanical & Environmental

Power Requirement	5V/1.5A
Power Consumption	TBD
Operating Temp.	-10°C-70° ( 14~158°F )
Operating Humidity	10 ~ 95% @ 70°C (non-condensing)
Dimension (L x W)	70 x 50 mm (2.74" x 1.97")