ArmSoM Camera Module 1

ArmSoM uses a high-performance ultra clear 4K camera ov13850.

The OV13850 module has the following characteristics:

- Pixel size: 1.12 millimeters x 1.12 millimeters
- 13 million pixels, 30fps
- Supports image sizes of 13.2MP (4224 x 3136), 10MP (4224 x 2376), 2K (2112 x 1568), EIS1080P (2112 x 1188), EIS 720P (1408 x 792), etc Dual Wire Serial Bus Control (SCCB)
- Up to 4-channel MIPI serial output
- Working temperature range: 0 °C~60 °C, storage temperature range: -30 °C~80 °C

Compatibility

- Sige 3/5/7
- LM7 & W3
- CM5
- AIM7

Pinout

PIN NO	SYMBOL	Description
1	GND	Ground
2	CSI_RX_D3N	Channel 3 differential negative signal
3	CSI_RX_D3P	Channel 3 differential positive signal
4	GND	Ground
5	CSI_RX_D2N	Channel 2 differential negative signal
6	CSI_RX_D2P	Channel 2 differential positive signal
7	GND	Ground
8	NC	NC
9	NC	NC
10	GND	Ground
11	CSI_RX_D1N	Channel 1 differential negative signal
12	CSI_RX_D1P	Channel 1 differential positive signal
13	GND	Ground
14	CSI_RX_D0N	Channel 0 differential negative signal
15	CSI_RX_D0P	Channel 0 differential positive signal
16	GND	Ground
17	CSI_RX_CLK0N	output clock differential negative signal
18	CSI_RX_CLK1P	output clock differential positive signal
19	MIPI_VSYNC	Frame synchronization signal

PIN NO	SYMBOL	Description
20	MIPI_CLKOUT	clock signal
21	NC	NC
22	NC	NC
23	MIPI_CSI_PDN	control signal
24	I2C_SCL	I2C clock signal
25	I2C_SDA	I2C data signal
26	NC	NC
27	RESET	Global reset signal
28-29	VCC_3V3	VCCIO
30-31	VCC_5V0	VCCIO

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Purchase Samples

ArmSoM online shop: https://www.armsom.org/product-page/camera-module-1

ArmSoM Aliexpress online shop: https://aliexpress.com/item/3256806937514891.html

ArmSoM Taobao shop: https://item.taobao.com/item.htm?ft=t&id=802634842391

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