



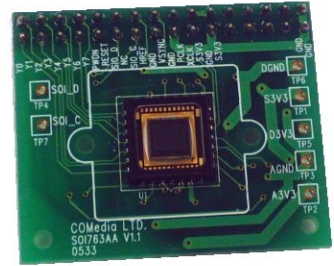
General Description

This is a series of digital sensor module using various CMOS image sensor.

The digital video port provides 8bit RGB signals. All camera functions, such as exposure, gamma, gain, white balance, color matrix, windowing, are programmable through SCCB interface.

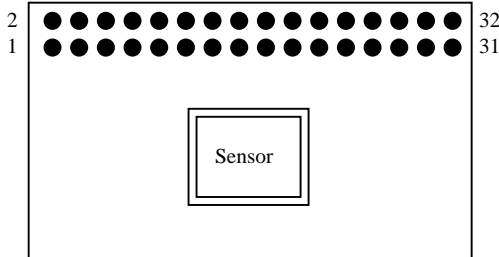
Features:

- VGA CMOS image sensor, SOI763A
- sensor array 640x480 pixels
- lens format: 1/4"
- Small size : 40 x 34 mm
- Built-in Len (Optional)
- 8Bit RGB raw data output
- Progressive Scan
- Serial Camera Control Bus interface
- Single 3.3V operation
- Low power consumption (<120mW)



Pin Description

1~8	Y0-Y7	Digital output Bus.
9	PWDN	Power down mode
10	RST	Reset
11	SIOD	Serial data
12	NC	
13	SIOC	Serial clock input
14	HREF	Horizontal window reference output
15	AGND	Analog Ground
16	VSYN	Vertical Sync output
17	AGND	Analog Ground
18	PCLK	Pixel clock output
19	EXCLK	External clock input
20	VCC	Power Supply 3.3VDC
21	AGND	Analog Ground
22	VCC	Power Supply 3.3VDC
23~30	NC	
31~32	GND	Common ground



PCB Layout (Top view)

Lens Information

Focal length	4.9mm
F No	2.8
Focus	2M to infinity
FOV	42 x 32 deg
IR cut filter	650nm

Lens can be subjected to customer's requirement.

Module Specification

Dimension	40x34mm
Header Pin	16pin x 2 row
Pin pitch	2.54mm
Total height from pcb	14mm

- Note: 1. Please refer to the data sheet of SOI sensor for detail specification and features.
2. Using external clock : Remove the crystal, C14, C15 and R11 Short R9.