
Radxa Camera 8M 219

For Radxa

Revision 1.0

2024-05-17



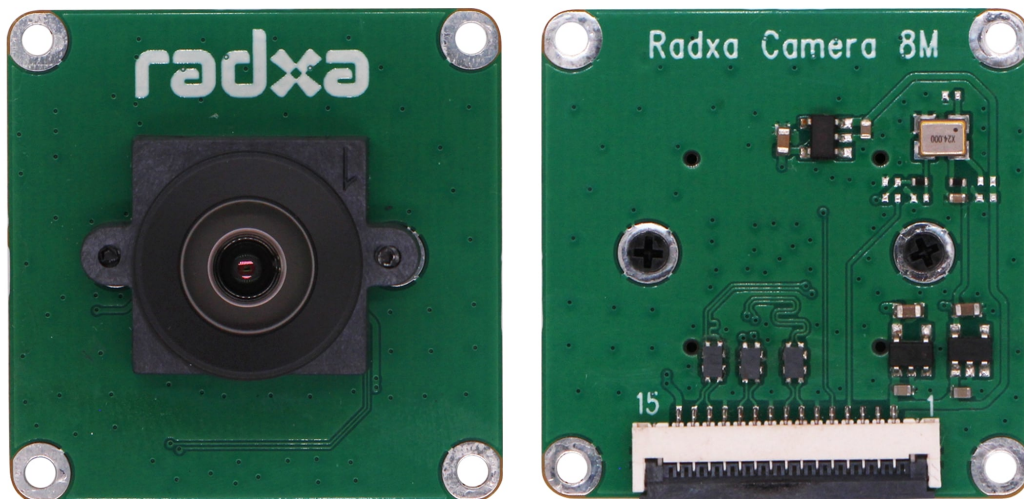
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1 Revision Control Table

Version	Date	Changes from previous version
1.0	2024/05/17	First Version

2 Overview



Radxa Camera 8M 219 is a high resolution camera module for Radxa products powered by a Sony IMX219 image sensor with 8M pixels. Radxa Camera 8M 219 Module is capable of the following applications:

- Face Recognition
- Road marking line recognition
- Licence plate recognition

3 Specification

- IMX 219 Sensor:
 - frame rate: Max. 30 frame/s in all-pixel scan mode
 - Pixel rate: 280Mpixel/s (All-pixels mode)
 - Data rate: Max. 912Mbps/Lane(@2lane)

- Number of active pixels: 3280 (H) × 2464 (V) approx. 8.08 M pixels
- Lens Specification:
 - Effective Focal Length: 2.95mm
 - F/NO: 2.5 ± 5%
 - View Angle: 54°
 - TV-Distortion: <0.3%
 - Composition: 1G4P
 - Chief Ray Angle: 17°
 - Filter: 650nm±10nm@50%

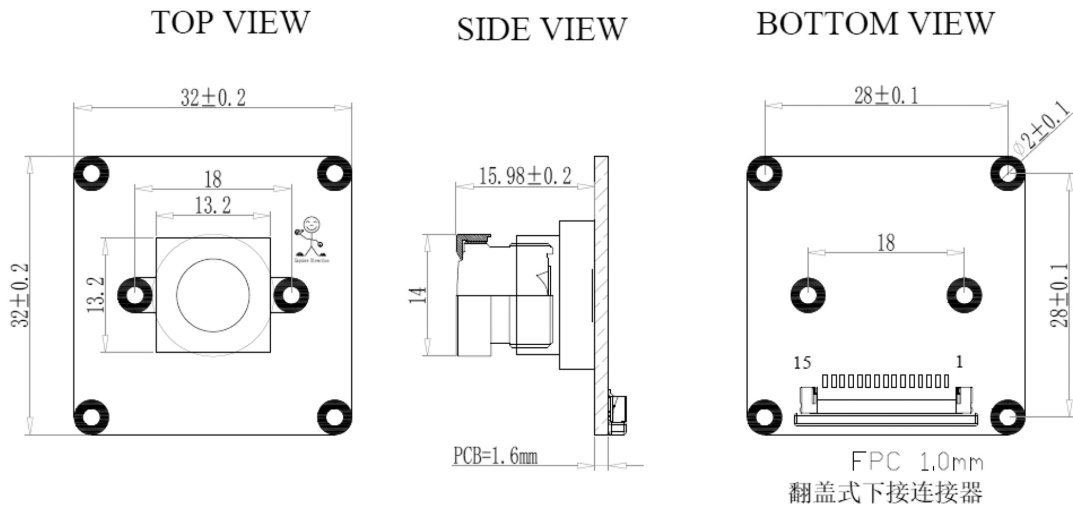
Field of view (Diagonal/Horizontal/Vertical)

D=74° H=62° V=49°

- Default FPC cable
 - length: 150 mm
 - Compatible with Radxa ZERO 3E / 3W

For compatibility with other Radxa SBCs, an additional fpc cable is required. Please refer to the [Radxa Website](#)

4 Physical specifications



Note: all dimensions in mm

5 Pin Definition

Pin	Signal	Pin	Signal
1	VCC3.3V	9	GND
2	SDA	10	MDP1
3	SCL	11	MCN1
4	MCLK	12	GND
5	PWDN	13	MDP0
6	GND	14	MDN0
7	MCP	15	GND
8	MCN		

6 Availability

Radxa guarantees availability of the Radxa Camera 8M 219 until at least September 2029.

7 Support

For support, please see the support documentation section of the [Radxa Website](#) website and post questions on the [Radxa Forum](#).