

Camera 200A



DEBIX Camera 200A Module

Overview:

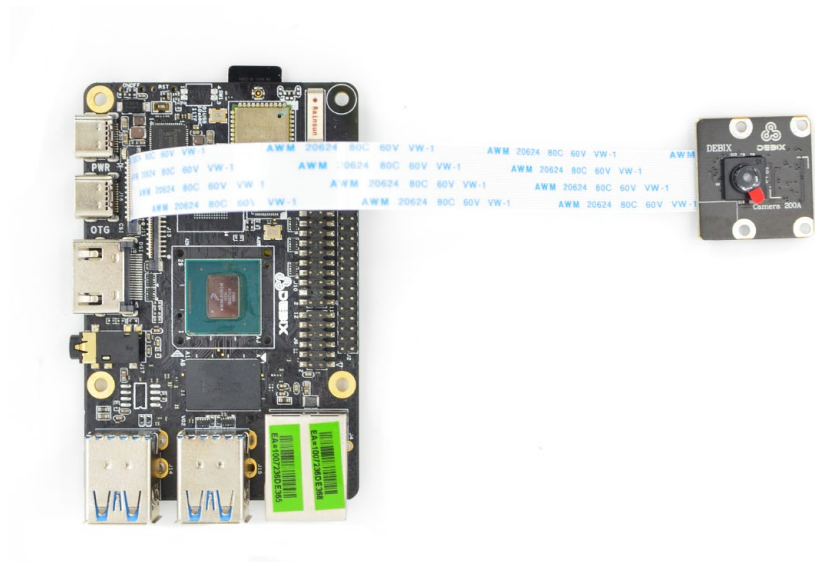
DEBIX Camera 200A Module is a tiny camera with the GC2145 sensor. It supports recording 1600 x 1200 video at 20fps, and features high still resolution of 2 megapixels and a diagonal field of view of 76 degrees. Camera 200A includes a 15cm flexible flat cable to connect with the CSI input connector on DEBIX SBCs.

Main Features:

- 2 megapixels still resolution, 1600 x 1200/20fps video mode
- 76 degrees diagonal FOV, 60 degrees horizontal FOV, 50 degrees vertical FOV
- Fixed focus for default, could be changed to auto focus

Compatibility:

- Compatible with DEBIX Model A, DEBIX Model B, DEBIX Model C and DEBIX Infinity
- Support for use with DEBIX SOM A I/O Board through an add-on board



Certificates:



Specification:

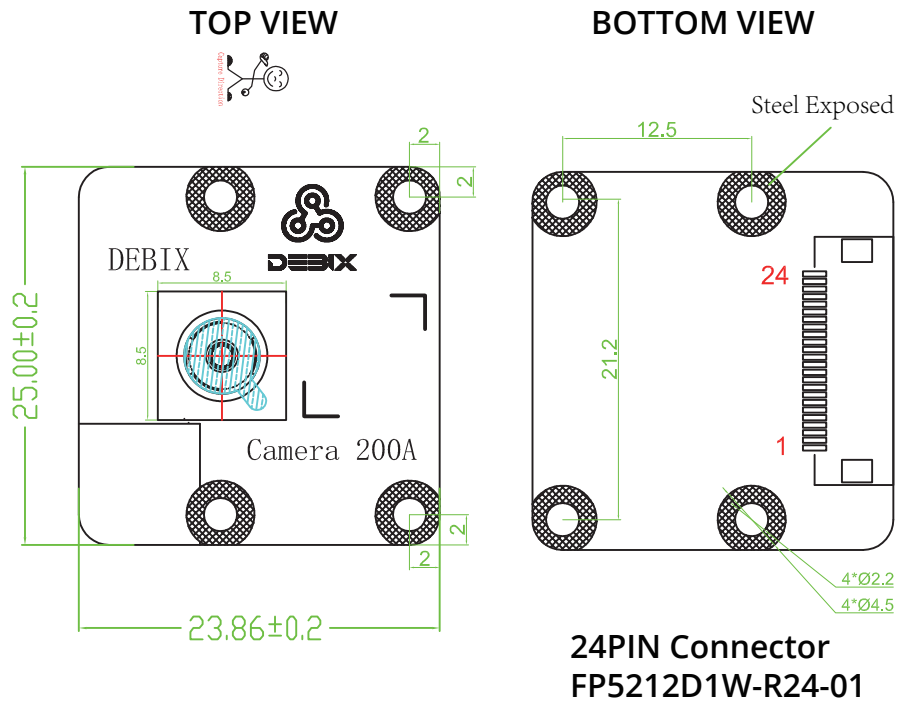
Camera 200A	
Still Resolution	2 megapixels
Video Mode	1600 x 1200/20fps
Sensor	GC2145
Sensor Resolution	1616 x 1232 pixels
Sensor Image Area	2.83mm x 2.16mm
Pixel Size	1.75um x 1.75um
Optical Size	1/5"
Depth of Field	Approx 30cm to ∞
Diagonal FOV	76 degrees
Horizontal FOV	60 degrees
Vertical FOV	50 degrees
Focus	Fixed
Focal Length	2.27mm
Focal Ratio (F-Stop)	2.2
Maximum Exposure Time (seconds)	/
Lens Mount	N/A
Size	25mm x 24mm x 8.85mm
Flexible Flat Cable	15cm

Camera Lens	
Output Formats	Raw/YCbCr4:2:2/RGB565
Lens Construction	3P + 1IR
TV Distortion	<1.5%
Thread	M5 x 0.35P
IR Filter	650±10nm
S/N Ratio	TBD
Dynamic Range	TBD
Power Supply	Core: 1.8VDC Analog: 2.8VDC I/O: 3.3VDC
Power Consumption	Operating: 100mW
Temperature Range	Operating Temp.: -30°C~ 70°C Storage Temp.: -40°C~ 85°C

PIN Definition and Mechanical Dimension:

24 PIN DESCRIPTION

No	Name
1	VDD_5V
2	VDD_3V3
3	VDD_1V8
4	CSI-PWD
5	CSI-NRST
6	CSI-I2C-SDA
7	CSI-I2C-SCL
8	CSI-SYNC
9	CSI-MCLK
10	GND
11	CSI-DN0
12	CSI-DP0
13	GND
14	CSI-DN1
15	CSI-DP1
16	GND
17	CSI-CKN
18	CSI-CKP
19	GND
20	CSI-DN2 (NC)
21	CSI-DP2 (NC)
22	GND
23	CSI-DN3 (NC)
24	CSI-DP3 (NC)



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