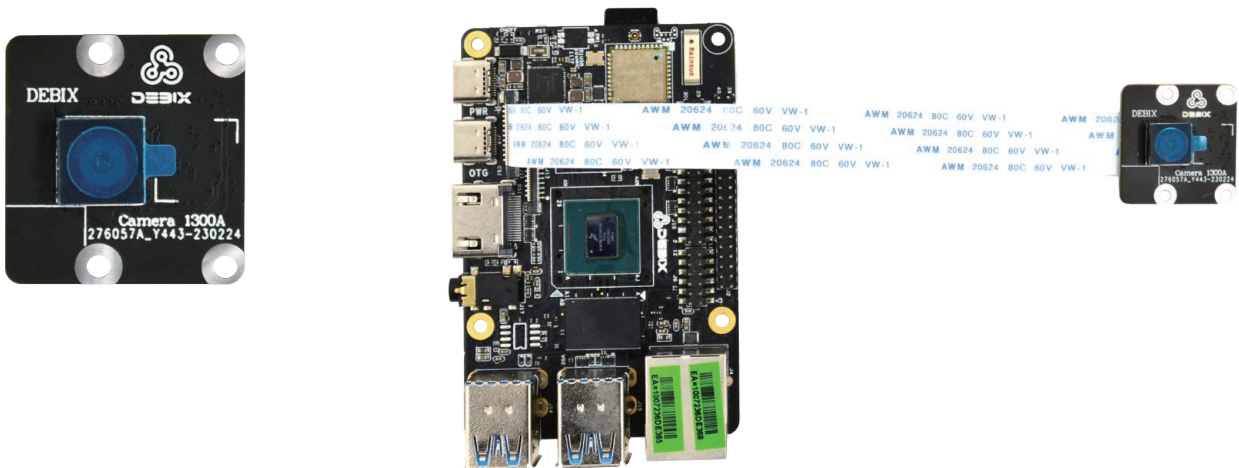# Camera 1300A

DEBIX Camera 1300A Module

Overview:

DEBIX Camera 1300A Module is a compact HD camera for DEBIX SBCs with a 13MP sensor and 5P + 1IR lens. Featuring a diagonal FOV of 80° and higher still resolution, it supports 4208 x 3120 video mode at 30fps, enabling your DEBIX SBCs to see more of the world. As with the Camera 500A, Camera 1300A is set to support fast auto focus by default, and both of them can be set to support fixed focus.

Main Features:

· 13 megapixels still resolution, three video modes: 4208 x 3120/30fps, 3840 x 2160/30fps, 1920 x 1080/60fps
· 80 degrees diagonal FOV, 69 degrees horizontal FOV, 54 degrees vertical FOV
· Auto focus for default, could be changed to fixed 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 1300A	
Still Resolution	13 megapixels
Video Modes	4208 x 3120/30fps 3840 x 2160/30fps 1920 x 1080/60fps
Sensor	AR1335
Sensor Resolution	4208 x 3120 pixels
Sensor Image Area	4.629mm x 3.432mm
Pixel Size	1.1um x 1.1um
Optical Size	1/3"
Depth of Field	Approx 10cm to ∞
Diagonal FOV	80 degrees
Horizontal FOV	69 degrees
Vertical FOV	54 degrees
Focus	Auto
Focal Length	3.34mm
Focal Ratio (F-Stop)	2.2
Maximum Exposure Time (seconds)	/
Lens Mount	N/A
Size	25mm x 24mm x 7.7mm
Flexible Flat Cable	15cm

Camera Lens	
Output Formats	Raw/YCbCr4:2:2/RGB565
Lens Construction	5P + 1IR
TV Distortion	<1%
Thread	M6.5 x 0.25P
IR Filter	650±10nm
S/N Ratio	37dB
Dynamic Range	69dB
Power Supply	Core: 1.2VDC Analog: 2.7VDC I/O: 3.3VDC
Power Consumption	Operating：270mW
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
21	CSI-DP2
22	GND
23	CSI-DN3
24	CSI-DP3

TOP VIEW

BOTTOM VIEW

**24PIN Connector
FP5212D1W-R24-01**
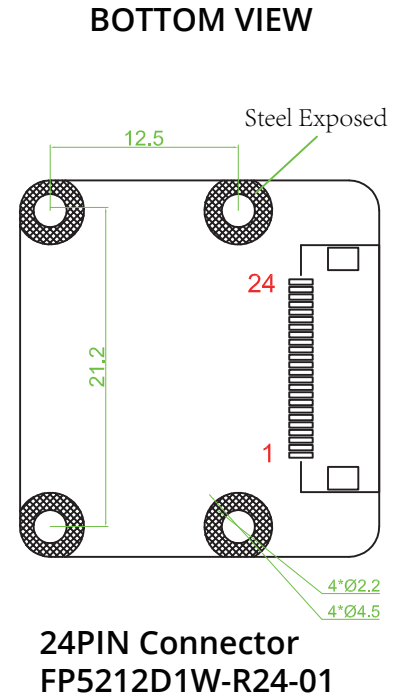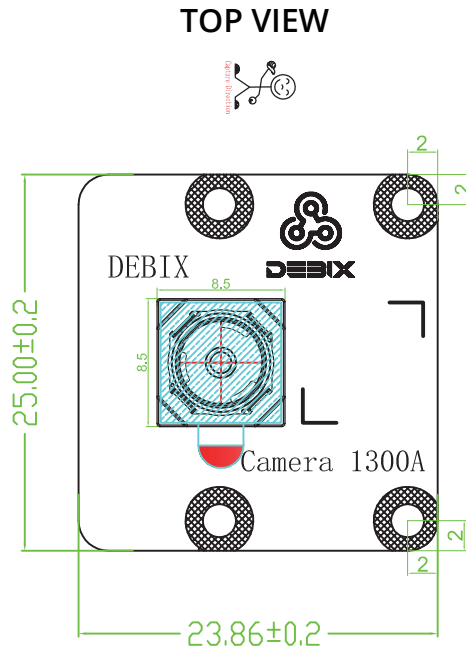
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