

ArduCam

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Camera breakout board

Introduction

0.3MP OV7251 Global Shutter

0.36MP MT9V034/MT9V022 Global Shutter

1MP OV9281 Global Shutter

1.2MP AR0134/AR0135 Global Shutter

0.3MP OV7675

1.3MP MT9M001

2MP MT9D111

Hardware Guide

Software Guide

2MP OV2640

5MP MT9P031

5MP OV5640

5MP OV5642

9MP MT9N001

10MP MT9J001/MT9J003

13MP IMX135

13MP OV13850

14MP MT9F001/MT9F002

16MP IMX298

18MP AR1820HS

Home > Docs > Camera breakout board > 2MP MT9D111 > Hardware Guide

Hardware Guide

Introduction

This hardware guid helps for interfacing the Arducam MT9D111 camera module. There are hardware **USB2** or **USB3**(you also need **Arducam Parallel Camera Adapter Board** for USB3)camera shield develop boards which can well mate this camera module without designing any customize board, they can be used for fast evaluation for this camera module.

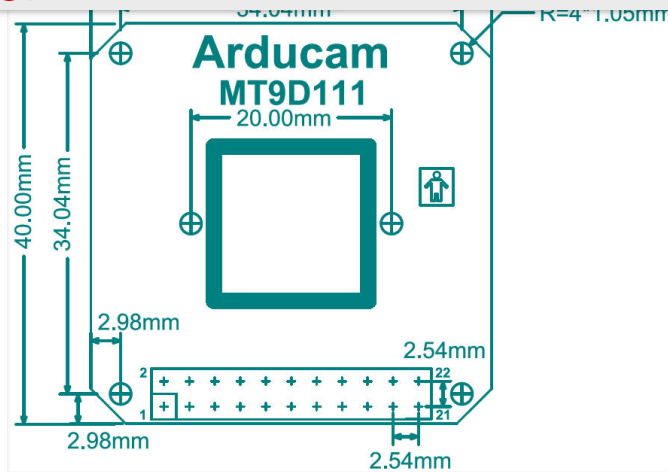
Pin Definition

The camera module using 3M **929836-02-11-RK** or similar 22pin (2×11)2.54mm pitch header.

Pin No.	PIN NAME	TYPE	DESCRIPTION
1	VCC	POWER	3.3v Power supply
2	GND	Ground	Power ground
3	SCL	Input	Two-Wire Serial Interface Clock
4	SDATA	Bi-directional	Two-Wire Serial Interface Data I/O
5	VSYNC	Output	Active High: Frame Valid; indicates active frame
6	HREF	Output	Active High: Line/Data Valid; indicates active pixels
7	PCLK	Output	Pixel Clock output from sensor
8	XCLK	Input	Master Clock into Sensor
9	DOUT7	Output	Pixel Data Output 7 (MSB)
10	DOUT6	Output	Pixel Data Output 6
11	DOUT5	Output	Pixel Data Output 5
12	DOUT4	Output	Pixel Data Output 4
13	DOUT3	Output	Pixel Data Output 3
14	DOUT2	Output	Pixel Data Output 2
15	DOUT1	Output	Pixel Data Output 1
16	DOUT0	Output	Pixel Data Output 0 (LSB)
17	NC	NC	NC
18	NC	NC	NC
19	RST	Input	Sensor reset signal, active low
20	STANDBY(PWDN)	Input	Standby-mode enable pin (active HIGH)
21	NC	NC	NC
22	NC	NC	NC

Mechanical Dimension

1/2



Lens Option

There are M12 or CS/C mount lenses can be used together with is camera module. This is 1/3.2" optical format sensor, so make sure the lens optical format is bigger than 1/3.2" or else there will be dark corner. More lens options can be found from [lens product page](#).

Updated on May 1, 2019

[Software Guide](#) →

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