AISTAR OV5645 MIPI AF Module Spec

General Information:

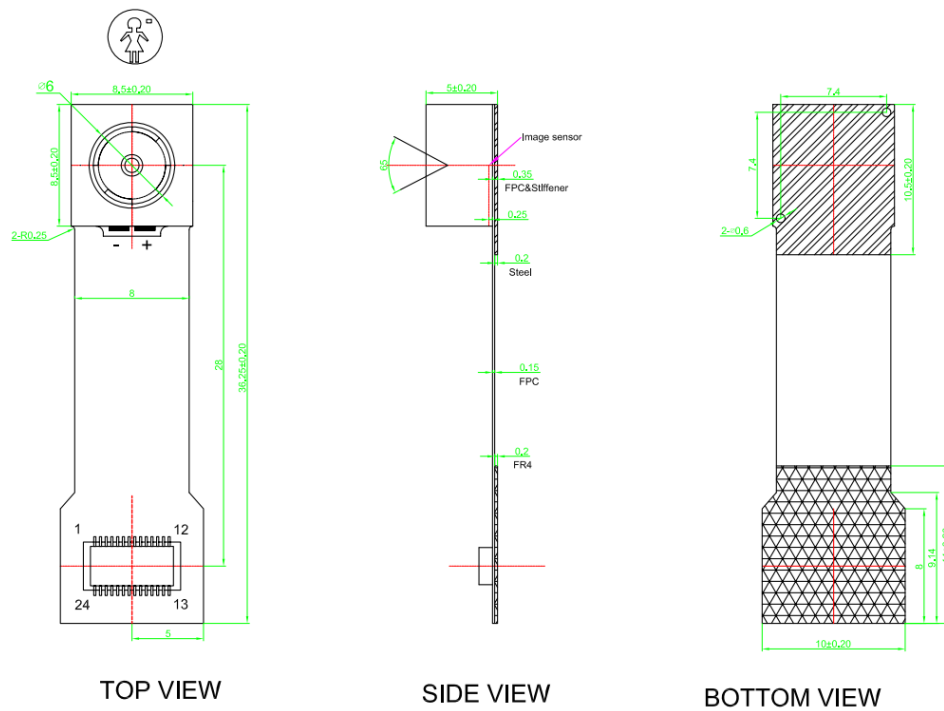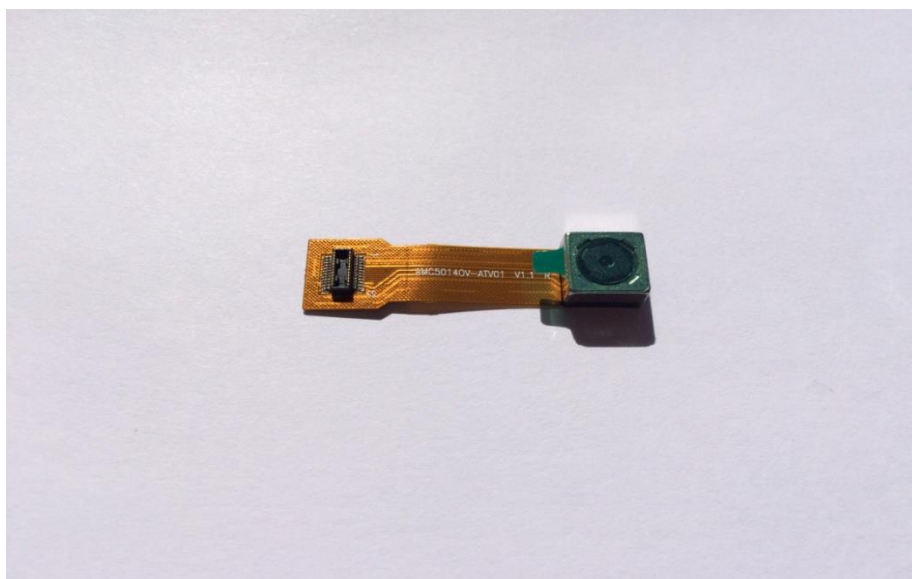| Module Part#		AMC5014OV-ATV01
Sensor Type		OV5645 with auto focus
Module Size		36.25x8.5x5.0(L*W*H)
Full resolution		2592x1944
Power Supply	Core	1.5V(optional,internal +1.5V regulator recommended)
	Analog	2.8V
	I/O	1.8V/2.8V
Lens		1/4″
Focal Length		3.37mm
F#		2.8
Field of view(FOV,diangonal)		65°
Focus range		10cm-infinity
Pixel size		1.4um*1.4um
IR Cutter		650nm
Working temperature		-30℃-70℃
Working Mode		2592*1944@15fps;1920*1080@30fps;1280*960@45fps 1280*720@60fps;640*480@90fps;320*240@120fps
Output Format		YUV
Connector		AXK824145

Module Pin assignment:

No.	Symbol	Pin Type	Description
1	STROBE	I/O	Strobe output or scan chain test mode input
2	AGND	Ground	Analog Ground
3	SDA	I/O	SCCB data
4	AVDD	Power	Analog Power Supply
5	SCL	Input	SCCB clock
6	RESET	Input	Reset(Active Low)
7	NC		
8	PWDN	Input	Power Down(Active High)
9	NC		
10	DVDD1.5V	Power	Digital Core Power
11	DOVDD1.8/2.8V	Power	I/O circuit Power
12	MDP1	I/O	MIPI positive output,second data lane
13	XCLK	Input	System input clock
14	MDN1	I/O	MIPI negative output,second data lane
15	DGND	Ground	Digital Ground

16	MCP	I/O	MIPI clock,positive
17	NC		
18	MCN	I/O	MIPI clock,negative
19	NC		
20	MDP0	I/O	MIPI positive output,first data lane
21	NC		
22	MDN0	I/O	MIPI negative output,first data lane
23	AF-VCC2.8V	Power	Auto Focus Analog Power
24	AF-AGND	Ground	Auto Focus Ground

Mechanical:

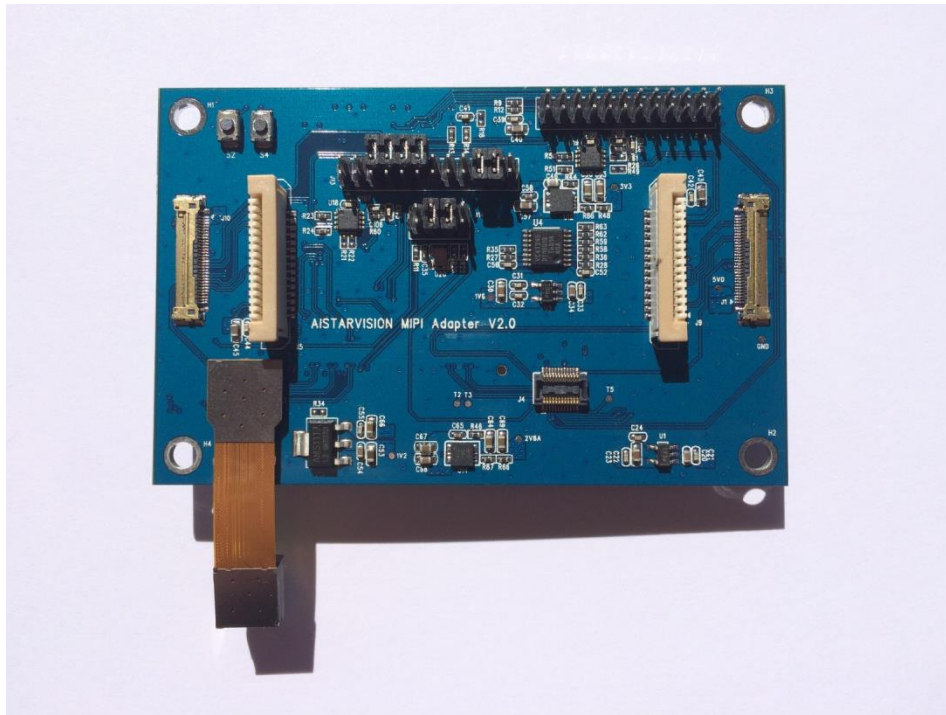TOP VIEW   SIDE VIEW   BOTTOM VIEW
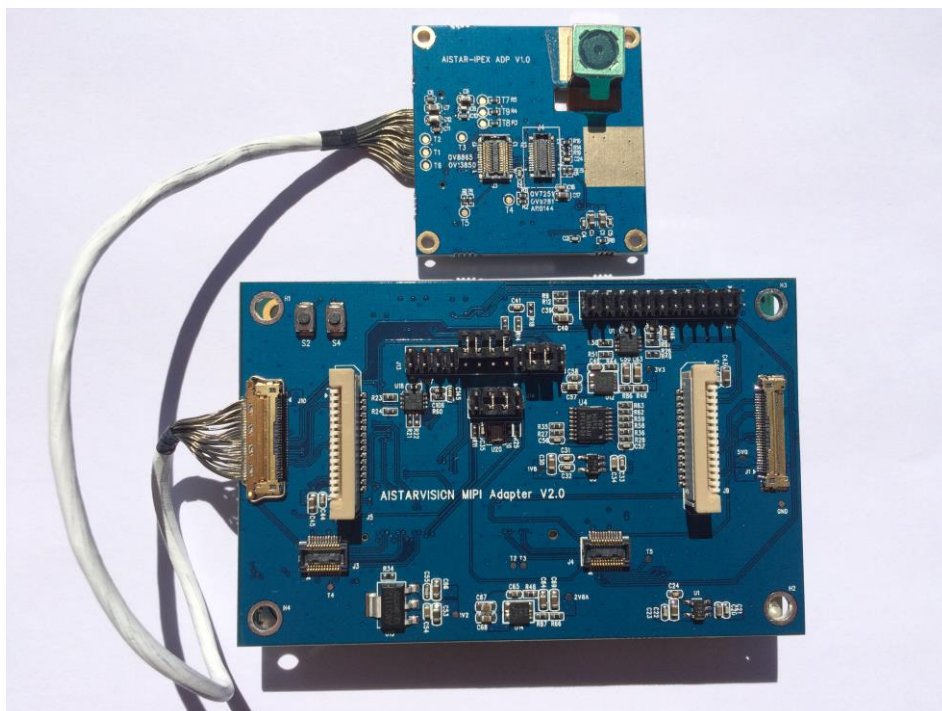
OV5645 module:

OV5645 with Dragonboard410C(Based on AISTAR MIPI Adapter)
Option1:AISTAR MIPI Adapter with OV5645

Option2:AISTAR MIPI Adapter with OV5645 camera board(IPEX cable)

Note:

This module is fully compatible with OV5640 MIPI AF module from Mouser Eletronics.For module customization service,please contact support@aistarvision.com for more information.

Check our online store for all available items:

96Boards Camera

Document History:

Revision	Date	Notes	Who
Rev1.0	11/29/2016	Initial draft	Kevin.W
Rev1.1	01/03/2017	Update	Kevin.W