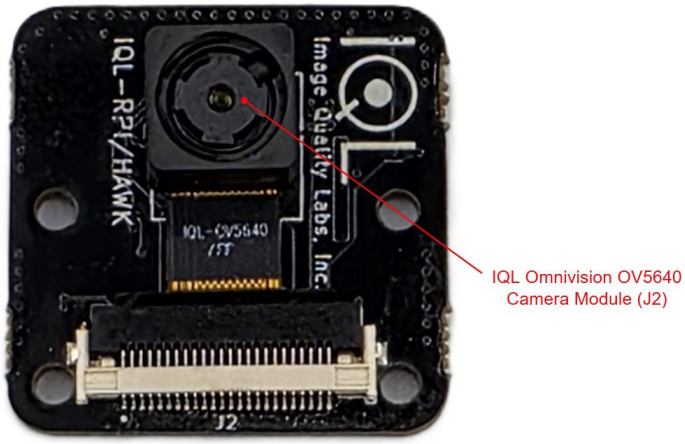


Part Number	Body Size
IQL-OV5640/FF/Hawk	25 mm × 25 mm

1 Description

The IQL-OV5640/FF/Hawk interfaces the IQL-OV5640/FF 5MP Camera Module with a Raspberry Pi. This evaluation/development board is meant to provide a stable platform for driver development and image tuning.

2 Compatibility

- Raspberry Pi
- Other platforms utilizing Raspberry Pi Camera Interface

3 Applications

- Research and Development
- Educational Projects
- Prototype Testing
- Robotics and Automation
- Wildlife and Environmental Monitoring
- Time-lapse and Slow Motion Photography
- IoT devices

4 Pin Configurations

4.1 22Pin RPi Connector Configuration

Header	Pin Number	Name
J1	1	GND
	2	D0_N
	3	D0_P
	4	GND
	5	D1_N
	6	D1_P
	7	GND
	8	C_N
	9	C_P
	10	GND
	11	NC
	12	NC
	13	GND
	14	NC
	15	NC
	16	GND
	17	CAM_GPIO
	18	NC
	19	GND
	20	CSI_SCL
	21	CSI_SDA
	22	VCAM

5 Electrical Characteristics

5.1 Absolute Maximums

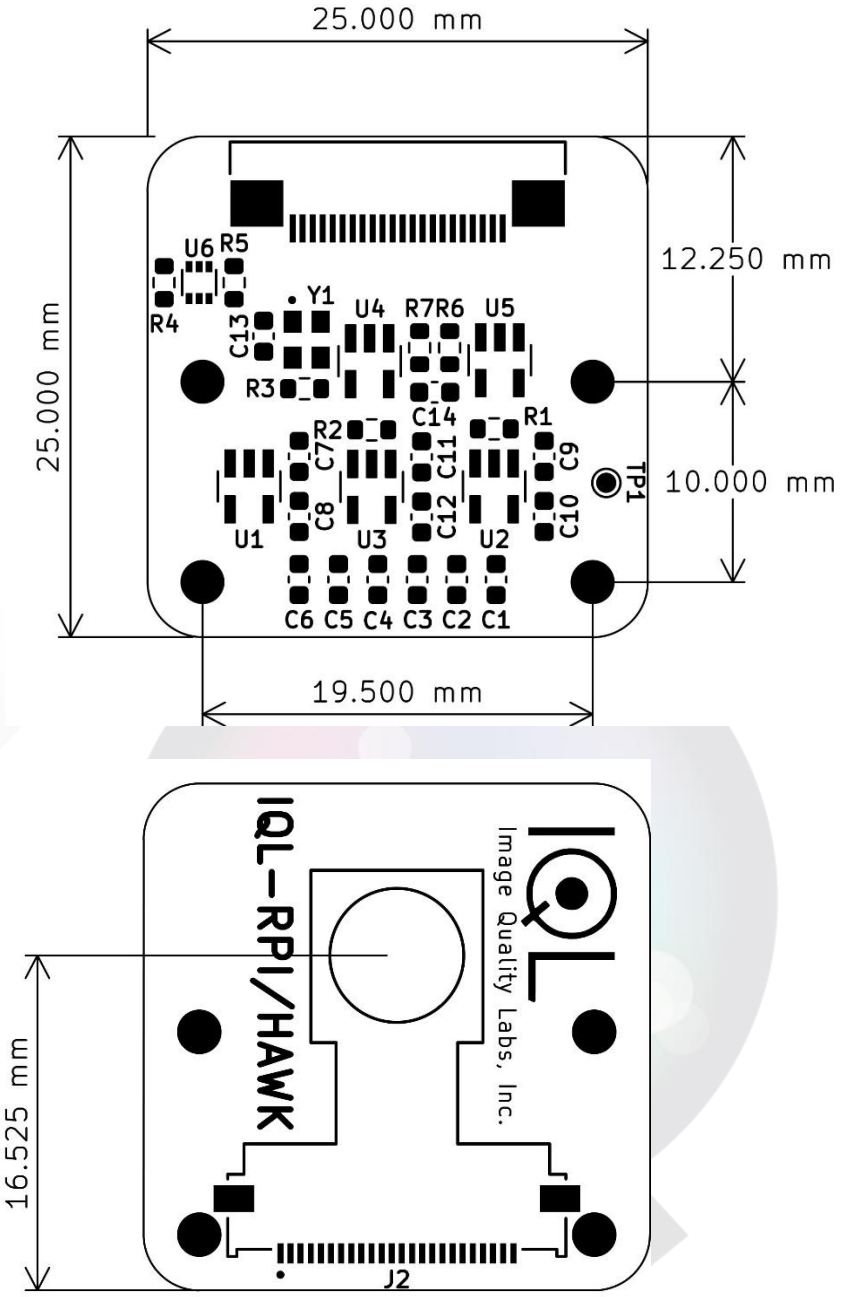
Net	Minimum	Maximum	Unit
CAM_GPIO	0	5.5	V
CSI_SCL	0	5.5	V
CSI_SDA	0	5.5	V
VCAM	3.1	5.5	V

5.2 Recommended Operating Conditions

Net	Minimum	Typical	Maximum	Unit
CAM_GPIO	1.6	3.3	5.5	V
CSI_SCL	1.8	3.3	5.5	V
CSI_SDA	1.8	3.3	5.5	V
VCAM	3.1	3.3	3.8	V

Minimum CAM_GPIO, CSI_SCL, CSI_SDA is V_{IH}
OV5640 Input Clock Frequency: 24.000MHz

6 Mechanical Information



7 Raspberry Pi 5 Connection (Type B FFC)

