



## Camera sensors hardware components



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## 1 Article purpose

The purpose of this article is to:

- List the camera sensors hardware components that might be integrated in the different boards.
- Link these components to the corresponding software framework(s).
- Point to the appropriate component datasheets.
- Explain, when necessary, how to configure these components.

## 2 Software frameworks

Do	Peri	Software frameworks			Comment
mai C o r t e x - A 7 s e c u r e ( O P- T E E)	Cor tex - A 7 n o n- s e c u r e ( L i n u x )	Cortex-M4  (STM32Cube)			
Vi	O m n i V i		V4L2 camera		Camera



Do	Peri	Software frameworks		Comment
mai	pher		framework	sensor
al	al			
	O			
	V5			
	64			
	0			

## 3 OmniVision OV5640

The OmniVision OV5640 camera sensor supports both parallel and MIPI<sup>®</sup>CSI interfaces.

For details and the datasheet please contact the OV5640 provider.

### 3.1 Linux driver

Bindings: Documentation/devicetree/bindings/media/i2c/ov5640.txt

Sources: drivers/media/i2c/ov5640.c

Open Portable Trusted Execution Environment

Mobile Industry Processor Interface, open membership organization that includes leading companies in the mobile industry that share the objective of defining and promoting open specifications for interfaces inside mobile terminals, see MIPI<sup>®</sup> Alliance standard web site <https://www.mipi.org>

Multi Speed Internal oscillator (STM32 clock source)