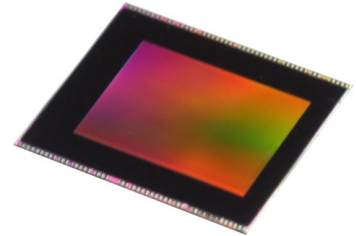


CMOS image sensor

8Megapixel 1.4 μ m**T8EV4****1/3.2 inch 8M pixel 1.4 μ m CMOS image sensor**

The Toshiba T8EV4 is a CMOS image sensor with 8 mega pixels for optical format of 1/3.2 inch and it is suitable for mobile phone.

■ Features**Applications**

- ▶ Mobile phones and Smart phones

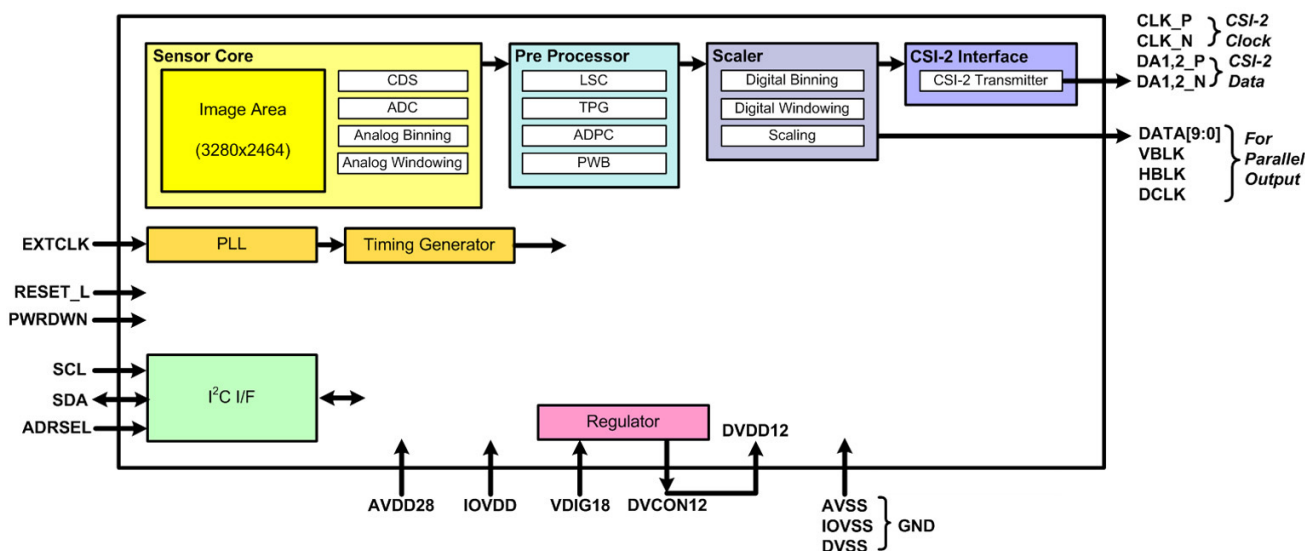
Features

- ▶ 1/3.2" 8M pixel (1.4 μ m)
- ▶ Progressive scan
- ▶ 10bits parallel output
- ▶ CSI-2 2lanes or CCP2 serial output
- ▶ I²C interface
- ▶ Binning:
 - Horizontal 1/2
 - Vertical 1/2 to 1/8
- ▶ Built-in phase lock loop (PLL)
- ▶ Automatic functions
 - Auto defect pixel correction
- ▶ Lens shading correction
- ▶ Standby mode, Power down mode
- ▶ Built-in regulator (1.8 V to 1.2 V)

Specifications

- ▶ Optical format: 1/3.2"
- ▶ Pixel size: 1.4 μ m $\times$ 1.4 μ m
- ▶ Effective pixels: 3280(H) $\times$ 2464(V)
- ▶ Data formats: RAW8, RAW10, DPCM10-8, DPCM10-6
- ▶ Frame rate: 15 fps @full resolution
- ▶ Power supply:
 - Analog=2.6 to 3.0 V
 - Digital=1.7 to 1.9 V
 - I/O=1.7 to 3.0 V
- ▶ Power consumption: 230 mW (Typ.)
- ▶ Sensitivity: 590 mV/lx-s
- ▶ SNR: 35 dB
- ▶ Dynamic range: 62 dB
- ▶ Operating temperature: -20 to +60 °C
- ▶ Storage temperature: -40 to +85 °C

■ System Block Diagram



» For further information about Toshiba Sensors, please visit
<http://www.semicon.toshiba.co.jp/eng/product/sensor/index.html>

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