

Toshiba CMOS Image Sensor Camera Module TCM8240MD

Highlights

- Toshiba image sensors provide best-in-class picture quality with CMOS process technology
- CMOS process technology enables low-cost, small form factor and low-power consumption
- The TCM8240MD camera module integrates color imaging with ADC and DSP functions including JPEG compression
- Toshiba has proven manufacturing capability to serve high-volume consumer markets for mobile phone products
- Sleep-mode operation minimizes power consumption
- Reduced external part count simplifies design
- Module integrates a lens unit

Description

The TCM8240MD camera module is one of the newest member of the Toshiba family of CMOS image sensors providing best-in-class picture quality at low-power consumption. Featuring 1280(H) x 1024(V) 1.3M pixel resolution and 15 frames per second operation with JPEG compression, the TCM8240MD camera module integrates color imaging and camera signal processing in a compact 10(W) x 10(D) x 7mm(H) module. TCM8240MD is ideal for high volume electronic products where small size, low-power consumption and high-quality imaging are key design criteria.

Features

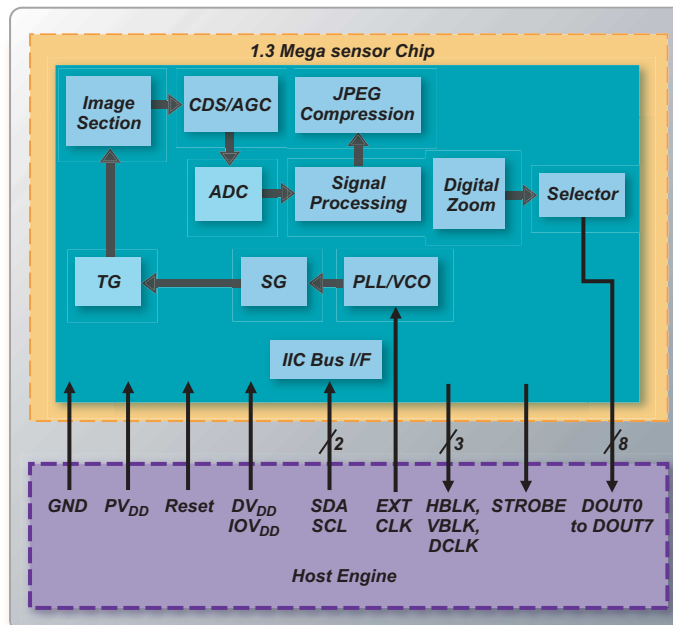
- Module Size:
10(W) x 10(D) x 7(H) mm

- 1/3.3 inch optical format
- Power supply: 1.5V and 2.8V
- I²C bus control
- Output pixel numbers: 1.3M Pixels (1280(H) x 1024(V))
- Pixel pitch: 3.3 μ m(H) x 3.3 μ m(V)
- Frame frequency: 15 fps max with JPEG
- Built-in PLL circuit and timing controller
- Multiple picture size and exposure modes
- Digital outputs:
YUV=4:2:2 or RGB=5:6:5 (8-Bit parallel) or JPEG encoded data

Specifications

- Storage temperature: -30 to 85°C
- Operating temperature: -20 to 60°C
- Power consumption: 300 mW with YUV, 225 mW with JPEG
- Lens field of view (fixed): 46° Horizontal, 38° Vertical, 62° Diagonal

Block Diagram: 1.3M Chip



Product Brief

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