CMOS CAMERA MODULES

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JAL-GC2235-A128F

GalaxyCore GC2235 MIPI Interface Fixed Focus 2MP Camera Module

Camera Module No.	JAL-GC2235-A128F
Image Sensor	GC2235
EFL	2.95 mm
F.NO	2.8
Pixel	1600 x 1200 (UXGA)
View Angle	60°
Lens Type	1/5 inch
Lens Dimensions	6.5 x 6.5 x 4.6 mm
Module Size	14.45 x 8.5 mm
Module Type	Fixed Focus
Interface	MIPI

Mating Connector Part No. 24-5804-024-000-829

Mating Connector On Main Board. Sold Separately.

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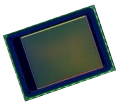

GC2235 product brief

1/5" UXGA CMOS Image Sensor

GC2235 is a high quality 2Mega CMOS image sensor, for mobile phone camera applications and digital camera products. GC2235 incorporates a 1616V x 1232H pixel array, on-chip 10-bit ADC, and image signal processor.

The full scale integration of high-performance and low-power functions makes the GC2235 best fit the design, reduce implementation process, and extend the battery life of cell phones, PDAs, and a wide variety of mobile applications.

It provides RAW10 and RAW8 data formats with MIPI interface. It has a commonly used two-wire serial interface for host to control the operation of the whole sensor.

Application

- Cellular Phone Cameras
- Notebook and desktop PC cameras
- PDAs
- Toys
- Digital still cameras and camcorders
- Video telephony and conferencing equipment
- Security systems
- Industrial and environmental systems
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Product Features

- BSI process
- Output formats: Raw Bayer 10bit/8bit
- Support for image sizes: UXGA and 720P
- Interface support:
  - -DVP parallel
  - -MIPI(1_lane/2_lane)
- PLL support
- Windowing support
- Horizontal /Vertical mirror

Product Specifications

- Optical Format: 1/5 inch
- Pixel Size: 1.75um x 1.75um(BSI)
- Active pixel array: 1616x1232
- ADC resolution: 10 bit ADC
- Max Frame rate: full resolution@30fps
- Power Supply:
  - -AVDD28: 2.7~3.0V
  - -DVDD18: 1.7~1.9V
  - -IOVDD: 1.7~3.0V
- Power Consumption:
  - -Active: 140mW
  - -Standby: <100uA
- SNR: 37.4 dB
- Dark Current: 60 e-/sec@60℃
- Sensitivity: 6700 e-/lux·sec
- Dynamic Range: 61.7 dB
- Operating temperature: -20~70℃
- Stable Image temperature: 0~50℃
- Optimal lens chief ray angle (CRA): 25°(non-linear)
- Package type: CSP/wafer

Functional block diagram