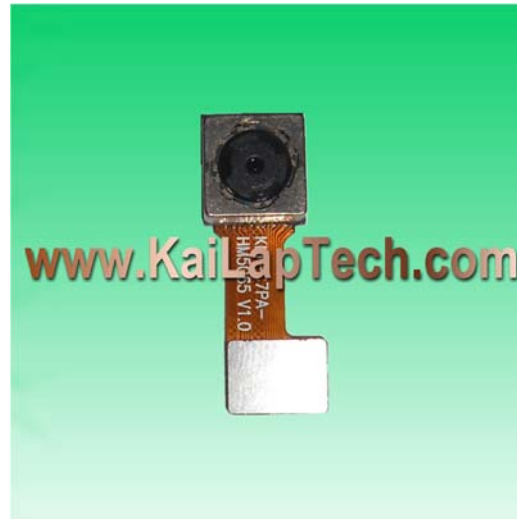


KLT-C7PA-HM5065 V3.0

Himax HM5065 DVP并行接口 自动对焦 500 万像素 摄像头模组



| | |
|---------|-----------------------------|
| 摄像头模组型号 | KLT-C7PA-HM5065 V3.0 |
| 图像感光芯片 | HM5065 |
| 焦距 | 3.2 mm |
| 光圈 | 2.8 |
| 像素 | 2592 x 1944 |
| 可视角度 | 70° |
| 镜头类型 | 1/4 英寸 |
| 镜头尺寸 | 8.50 x 8.50 x5.02 mm |
| 模组尺寸 | 24.02 x 8.50 mm |
| 模组类型 | 自动对焦 |
| 接口 | DVP并行 |

配对连接器型号: **GB042-28S-H10**



主板上的对应连接器。分开售卖。



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HM5065 5 Megapixel SOC

15fps ■ 1/4" 5MP ■ Color CIS SOC ■ Auto Focus VCM, JPEG Encoder, MIPI-CSI2

The HM5065 is a high performance 5.0MP System-On-Chip camera solution that delivers brilliant image quality and advanced camera features in a compact 1/4" format for next-generation mobile imaging applications. The HM5065 operates up to 15FPS in full resolution, and supports 720p HD and VGA using pixel data binning to increase frame rate and sensitivity. The sensor offers context switching and an embedded JPEG encoder to effortlessly transition between video and still image snapshot.

The fast acquisition Auto Focus feature can be quickly implemented using the integrated VCM Driver while minimizing camera module cost, space, and design complexity – compared to the use of a discrete driver. The HM5065 high level of integration enables an Auto Focus camera module to be designed in a compact 8.5mm² module size. All sensor parameters are controlled through a 2-wire serial interface.

Image Sensor SOC Features

- High performance 1/4" 5.0MP sensor SOC operating up to 15 frames per second
- 2 lane MIPI CSI2 and 8-bit parallel interface with embedded JPEG encoder
- 720p HD video readout up to 30FPS using 2x2 analog binning; VGA video up to 60 FPS using 4x4 binning
- Advanced Image Processing Pipeline for color processing, correction, and enhancements, which dynamically adjusts to changing light levels and color temperatures

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- Embedded controller for automatic exposure, white balance control, 50/60Hz flicker cancellation, dynamic adjustment of noise reduction, and contrast stretching
- On-chip Auto Focus engine with integrated Voice Coil Motor actuator driver and 3.6V charge pump
- Context switching to simplify transition between preview and still capture mode
- Fully programmable independent H and V scaling with derating down to UXGA (1600 x 1200)
- Low voltage 1.2V digital core reduces power consumption with support for 1.8V internal regulation

Image Sensor SOC Specifications

| | |
|----------------------------|--|
| Part Number | HM5065-AGA (RW), HM5065-APA / APC (PLCC, MIPI), HM5065-APB / APD (PLCC, Parallel) |
| Color Filter | RGGB |
| Array Diagonal | 4567 μ m |
| Resolution | 5MP (2592 x 1944) |
| Output Format | RAW, YUV, JPEG422, RGB565, RGB555, RGB444 |
| Optical Format | 1/4" |
| Pixel Size | 1.4 μ m |
| Frame Rate | 15FPS 5MP, 30FPS Bin2/Sub2, 60FPS Bin4/Sub4 |
| Sensitivity (FD @ 530nm) | 520 mV / Lux-sec |
| SNRmax | 35.6dB |
| CRMax | 25.8° non-linear |
| AVDD / DVDD / IOVDD (typ.) | 2.8V / 1.8V / 1.8, 2.6V |
| Power Consumption | Active: 255 mW, Powerdown: <10 μ W |
| Temperature | Operating: -20° to 70°C, Storage: -40° to 85°C |
| Package | PLCC, Bare Die |

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