

KLT-M6K-HI253 V1.0**Hynix HI-253 DVP Parallel Interface Fixed Focus 2MP Camera Module**

Camera Module No.	KLT-M6K-HI253 V1.0
Image Sensor	HI-253
EFL	2.95 mm
F.NO	2.8
Pixel	1600 x 1200 (UXGA)
View Angle	60°
Lens Type	1/5 inch
Lens Dimensions	6.50 x 6.50 x 4.02 mm
Module Size	16.12 x 20.30 mm
Module Type	Fixed Focus
Interface	DVP Parallel

Mating Connector Part No. AXT524124



Mating Connector On Main Board. Sold Separately.

Version 0.0
Preliminary



YACD511SBDBS

**1/5" 2M Pixels CIS
with Image Signal Processor
[Hi-253]**

1. OVERVIEW

1.1. Description

YACD511SBDBC is a high quality 2mega-pixel single chip CMOS image sensor for mobile phone camera applications and digital still camera products.

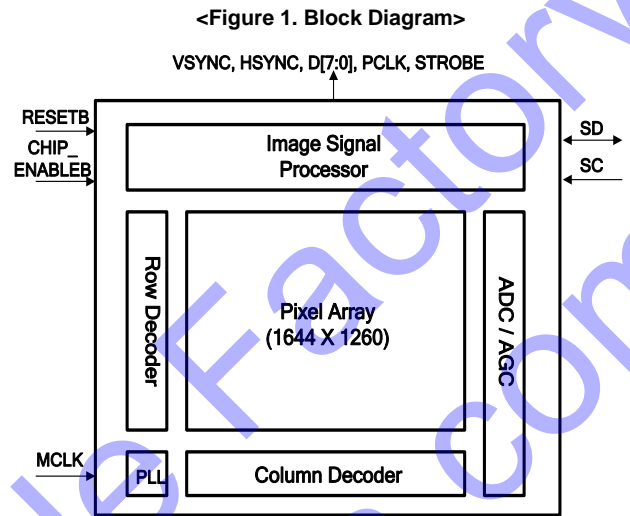
YACD511SBDBC incorporates a 1644 x 1260 pixel array, on-chip 10-bit ADC, and an image signal processor. Unique sensor technology enhances image quality by reducing FPN (Fixed Pattern Noise), horizontal/vertical line noise, and random noise.

1.2. Applications

- Mobile Phone Camera / Digital Still Camera
- PC Camera / Video Conference

1.3. Key Features

- Pixel Size: 1.75um X 1.75um
- Active Image Size : 2.856mm (H) X 2.156mm(V)
- Resolution: 1,600H X 1,200V
- Optical Format: 1/5 inch
- Frame Rate: 15fps@UXGA, 30fps@SVGA
- Power Supply: 2.8V / 1.8V
- Power Consumption: TBD @ 15fps, UXGA
- ADC: 10bit
- PLL: On Chip
- Operation Temperature: -20 ~ 60°C
- Master Clock: 48MHz(Max)
- Host Interface: two-wire serial bus interface
- Output Format: YUV4:2:2, RGB5:6:5, ITU656-like
- Edge Data for Auto Focus
- Motion Data for Auto Focus
- Windowing: Programmable



- Sub-Sample: 1/2, 1/4 (SVGA, QSVGA)
- Image Scaling : 1x ~ 1/64x
- Image Flip: X/Y Flip
- Auto Exposure
- Auto White Balance
- Anti-Flicker(50Hz / 60Hz): Auto/Manual
- Noise Reduction
- Black Level Calibration
- Strobe Control: Support Xenon / LED Type
- On-Chip Dead Pixel Correction
- Edge Enhancement
- Brightness
- Color Saturation
- Gamma Correction
- Color Correction
- Lens Shading Correction
- Image Effect: Mono, Sepia, Solarization, Negative, Sketch, Embossing