

**KLT-L7MA-HI-843B V1.0****Hynix HI-843B MIPI Interface Mise au point automatique 8MP Module de caméra**

<b>Module de caméra No.</b>	<b>KLT-L7MA-HI-843B V1.0</b>
<b>Capteur d'image</b>	HI-843B
<b>EFL</b>	2.93 mm
<b>F.NO</b>	2.0
<b>Pixel</b>	3280 x 2464
<b>Angle de vue</b>	75°
<b>Type d'objectif</b>	1/4 pouce
<b>Dimensions de l'objectif</b>	8.50 x 8.50 x 4.82 mm
<b>Taille du module</b>	17.24 x 8.50 mm
<b>Type de module</b>	Mise au point automatique
<b>Interface</b>	MIPI

**Référence du connecteur d'accouplement. FH26-25S-0.3SHW(60)**

Connecteur d'accouplement sur la carte principale. Vendu séparément.

# Hi-843

## 8MP 1/4" CMOS Image Sensor

**Advanced 1.12 $\mu$ m BSI 8M pixel image sensor generating 30fps full-resolution at low power consumption**

➤ **Compact Form Factor for Front Camera**

Fit into 6.5mm X 6.5mm camera module size  
(Fixed Focus)

➤ **Low Power Consumption**

180mW @ 30fps full-resolution

➤ **Competitive Image Quality**

Advanced optical path structure to reduce X-talk and temporal color noise

➤ **High Frame Rate**

8M(3264x2448) 30fps over 2 or 4 lane MIPI for zero shutter lag

➤ **Large OTP Memory**

8K Byte OTP Memory for customer use(storing module calibration data such as LSC and AWB)

➤ **2D-LSC**

Built-in 2D-LSC for per-module LSC calibration

➤ **Frame Synchronization**

FSYNC for dual camera application

### Applications

- Smart Phones
- Tablets

# Hi-843

## 8MP 1/4" CMOS Image Sensor

Features	
<b>Resolution</b>	8Mpixel (3,280 x 2,464)
<b>Optical format</b>	1/4"
<b>Pixel size</b>	1.12um BSI
<b>Frame rate</b>	30fps@QUXGA 60fps@FHD 1080P 90fps@HD 720P
<b>Power consumption</b>	180mW @ 30fps full-resolution
<b>Interface</b>	MIPI 4-Lane
<b>CRA</b>	32.80 degree non-linear
<b>OTP</b>	8K Byte
<b>On-chip functions</b>	Black level calibration 2D-LSC Frame synchronization iHDR

Specifications	
• <b>Active array size</b>	3673.60um(H) X 2759.68um(V)
• <b>Power Supply</b>	Analog: 2.8V (Typical) Digital Core: 1.2V (Typical) I/O: 1.8V/2.8V (Typical)
• <b>Input Clock Frequency</b>	6~27MHz
• <b>Output Format</b>	10bit Bayer Raw
• <b>Gain</b>	Analog : 1.0x~16.0x Digital : 1.0x~8.0x
• <b>Subsampling</b>	1/2, 1/4

[Functional Block Diagram]

