

2D Barcode Products & Solutions



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Products & Solutions

2D Barcode Miniature Engine (CSE-6000)

CSE-6000 SDK

2D Barcode Miniature Imager (CSI-6000)

2D Barcode LCD Reader (CSL-6000)

2D Barcode Miniature Engine (CSE-6000)

CSE-6000 is new small 2D barcode engine for OEM systems & hardwares. This miniature engine enables customers to fast and reliably integrate 2D barcode decoding solutions into target systems & and hardwares. This engine can also to be provided in software to customers with the same Features and benefits of handheld scanner products.



Features / Benefits

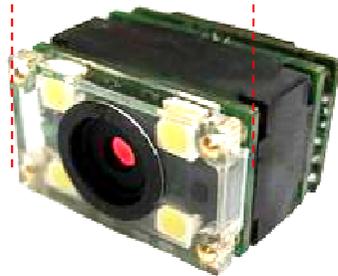
- ◆ **World-wide smallest Miniature style.** [20mm(W)*12.5mm(H)*17.5(D)]
- ◆ **All-in-One Model.** (Light LED + Image Sensor Module + Decoding Module)
- ◆ **Wide Viewing Angle.** (Wide $\pm 53^\circ$, Standard $\pm 40^\circ$)
- ◆ **Red / Green / Blue or White LED Lighting Architecture** for various target material.
- ◆ **Smart Laser Aiming.**
- ◆ **Real-time Image Uploading.** (within JPEG Engine)
- ◆ Quack and easy integration into target system and hardware.
- ◆ Flexible OEM customization.
- ◆ Lightweight optical module for reading symbols in most demanding environments.
- ◆ Fast decoding of 1D/2D symbols.
- ◆ Omni-directional reading.
- ◆ Full support to 2 byte characters with Chinese QR.
- ◆ Easy firmware upgrade.
- ◆ Low power consumption for PDA application or Wireless solutions.
- ◆ Competitive price.
- ◆ SDK(CSE-6000SDK) for test and evaluation.
- ◆ Technical Support for PDA application or other target machine.

Compare with HHP Engine

HHP 5x80 [38.35(W)*19.43(H)*28.23(D) mm]

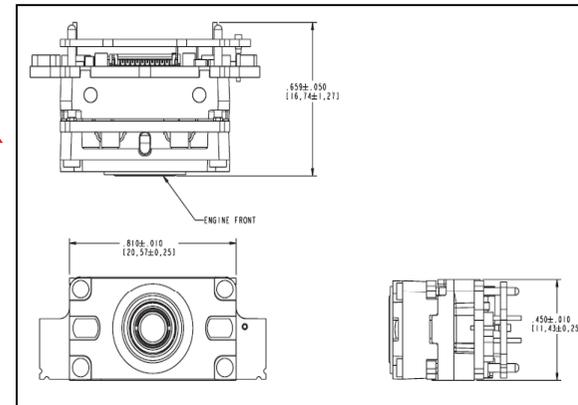
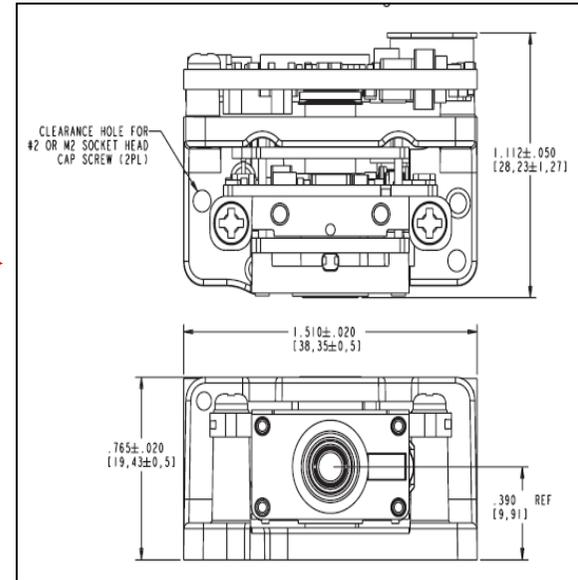


Decoder



Our Engine with Decoder
[20(W)*12.5(H)*17.5(D) mm]

HHP Imager + Decoder
[38.35(W)*19.43(H)*28.23(D) mm]



HHP Imager
[20.57(W)*11.43(H)*16.74(D) mm]

Specifications

Performance Characteristics

Image Sensor	CMOS Sensor, Max. 752*480, 8-bit grayscale
Target Distance	5~32.5cm : Depends on code size.
Viewing Angle	Wide $\pm 53^\circ$, Standard $\pm 40^\circ$
Aiming Pattern	Laser Aiming
Ambient Lighting	Total darkness to full sunlight
Directions	360 ^o omni-directional

Symbologies

1 Dimensional	Code11, Code32, Code39, Code93, Code128, UPC/JAN/EAN, Codabar, Interleaved 2 of 5, STF, RSS14, RSS Limited, RSS Truncated
2 Dimensional	PDF-417, Data Matrix, QR Code (including Chinese QR), *Maxi Code, *AZTEC
OCR	Application-specific OEM only

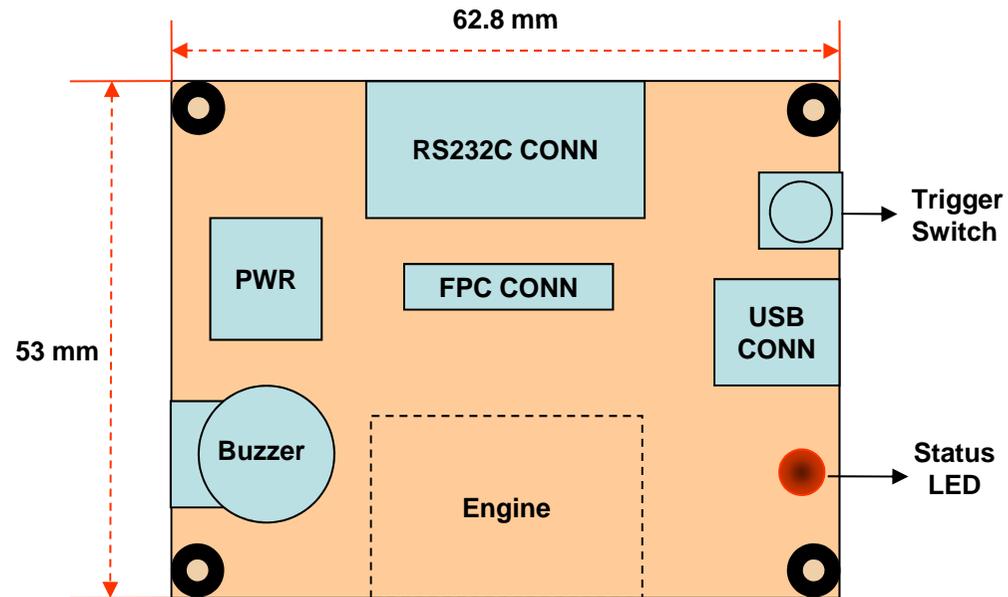
* means under development

Environments & Regulatory

Operating Temperature	-10°C to +50°C (-14°F to 122°F)
Operating Storage	-20°C to +60°C (-4°F to 140°F)
Shock	Multiple 4ft/1.2M drop to concrete
Humidity	0 to 95%
Certifications	FCC Class A & CE

CSE-6000 SDK

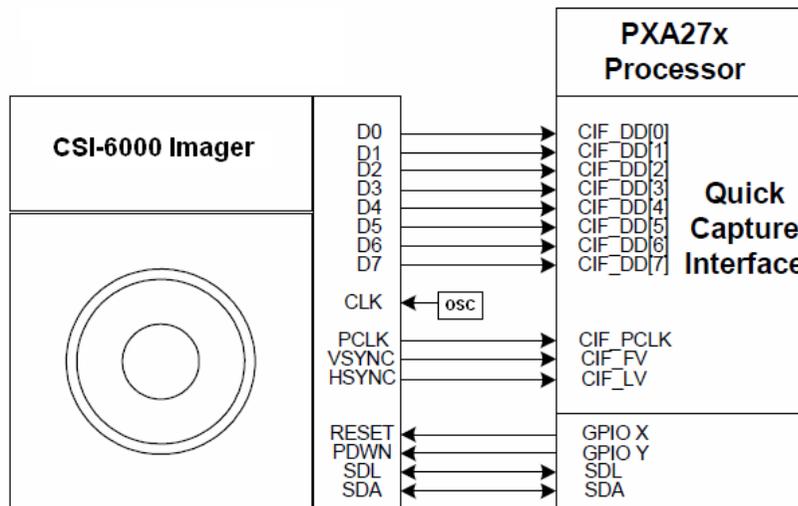
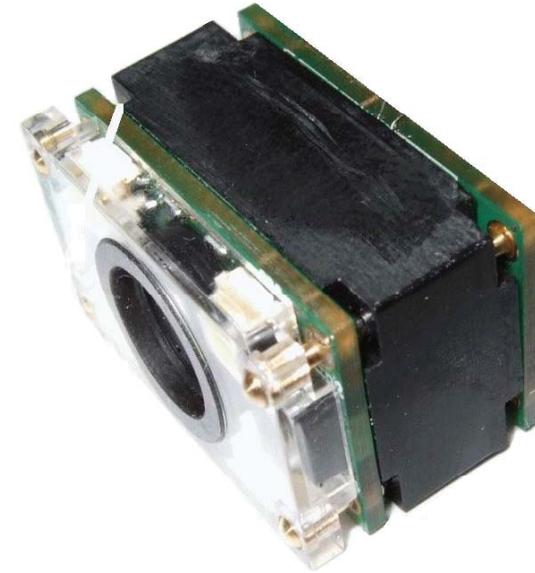
- ❖ CSE-6000SDK/RS232C : RS232C interface
- ❖ CSE-6000SDK/USB : Serial to USB bridge interface
- ❖ CSE-6000SDK/HID : HID keyboard interface



2D Barcode Miniature Imager (CSI-6000)

CSI-6000 is new small Imager for OEM systems & hardwares.
Support to ARM based H/W and others. (ex: PDA Systems)

Standard SDK support to Intel PXA27X, Samsung S3C244x
or other ARM Processors.



Example Block Diagram for illustration of a typical 8-bit master parallel connection between the PXA27x processor and an CSI-6000 imager. It is important to note that master mode refers to the case where the sensor module drives the line and frame synchronization signals. Slave mode is the case where the PXA27x processor drives the line and frame synchronization signals.

2D Barcode LCD Reader (CSL-6000)

CSL-6000 LCD Reader can read and decode 1D/2D symbols displayed on the LCD (Liquid Crystal Display) of cellphone and printed on paper. Various types including handheld reader and fixture one are available for Customer's requirements.



Features / Benefits

- ◆ LCD and paper readability.
- ◆ Command-leveled setup and system control for the interface with application programs.
- ◆ Fast decoding of 1D/2D symbols.
- ◆ Easy firmware upgrade.
- ◆ Competitive price.
- ◆ **World-wide largest LCD Window size.** [65mm(W)*45mm(H)]
- ◆ **Real-time Image Uploading.** (within JPEG Engine)
- ◆ Support to various hardware types for OEM/ODM customer's requirements.
- ◆ RS232C, USB (USB to Serial), HID Keyboard interface

Application Areas

- ◆ Mobile applications & systems
- ◆ Kiosks
- ◆ Ticketing applications (i.e., airline & train ticketing)

