OEM 바코드 스캔 엔진

iCom IComis 아이콤정보시스템
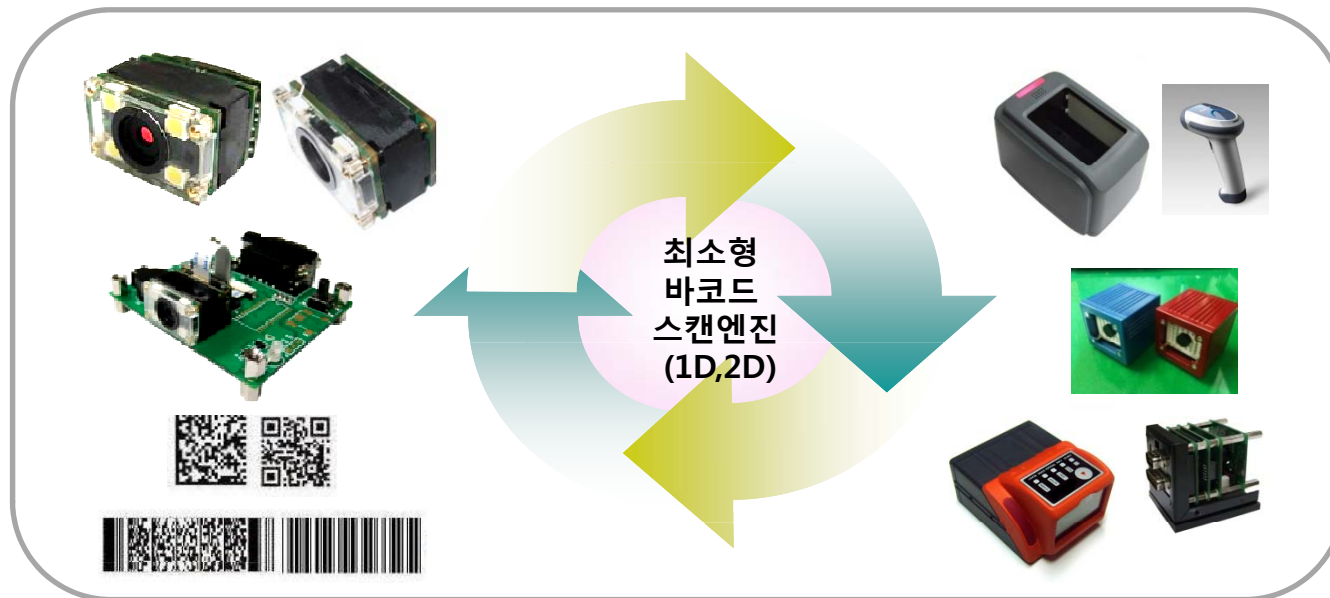www.barcodemart.com

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OEM 바코드 스캔 엔진 (CSE-6000, CSE-6000 SDK)

PDA, 모바일, ATM, 키오스크, 의료기기, POS 등 탑재 : 최소형 바코드 스캔 엔진

최소형
바코드
스캔엔진
(1D,2D)

Model Name	Engine	FPC Cable	SDK	RS232C Cable	Power Supply
CSE-6000	●	●			
CSE-6000-SDK	●	●	●	●	●

2D Barcode Miniature Scan 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.

◆ 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 ±53º, Standard ±40º)
◆ 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.

CSE-6000^{TM} Specification Sheet

Performance Characteristics	
Image Sensor	CMOS Sensor, max. 720H*480V, 8-bits Gray Scale.
Frame Rate	1/60 fps
Shutter Speed	1/30 sec ~ 1/10,000 sec
Viewing Angle	High density version: $\pm 53°$ Standard density version: $\pm 40°$
Ambient Lighting	Total darkness to full sunlight
Reverse, Flip Image	Auto-detection
Directions	360 ° Omni-directional
Interface	
Host Interface	RS232C-TTL interface
Control Signal	Trigger switch
Aiming	Smart laser aiming. 650nm$\pm$10nm
Indicator	Two Status LED output, Buzzer output
Symbologies	
1 Dimensional	UPC-A/E, EAN-8/13, Code39, Tri-Optic, Coda bar/ABC/CX, Straight 2 of 5 Industrial, Interleaved 2 of 5, Matrix 2 of 5, IATA, Chinese Post, Korean Post, MSI/Plessey, Code-93, Code128, GS1-128, Code11, GS1 DataBar
2 Dimensional	QR (with Chinese QR), Data Matrix, PDF417, microPDF417, Aztec, Maxi Code
Mechanical & Electrical	
Dimension	Height (12.4 mm), Width (20 mm), Depth (17.5 mm)
Weight	8g with cable
Cable Length	45 mm, FPC cable
Power Consumption	+4.75 to 5.25V, Typical 200mA, Peak 400mA, Standby 130mA
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)
Humidity	0 to 95%
Certification	FCC Class A & CE, ROHS
Others	
Setup	Auto-configuration or using CSCenter^{TM}, Barcode, Command
Application Interface	Use CSCenter^{TM}
Hardware Control	Auto-detection, USB port Plug-In/Out is free

2D Barcode Miniature Scan (CSE-6000 SDK)
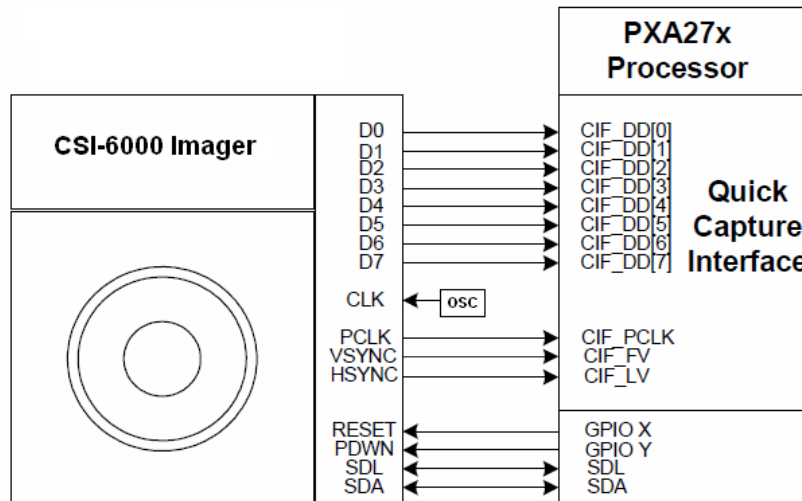
❖ **CSE-6000SDK/RS232C :   RS232C interface**
❖ **CSE-6000SDK/USB   :   Serial to USB bridge interface**
❖ **CSE-6000SDK/HID   :   HID keyboard interface**
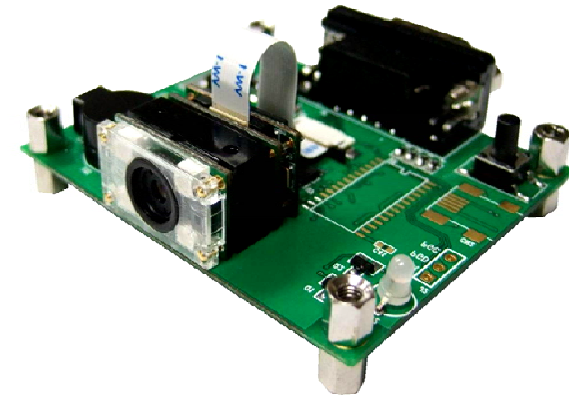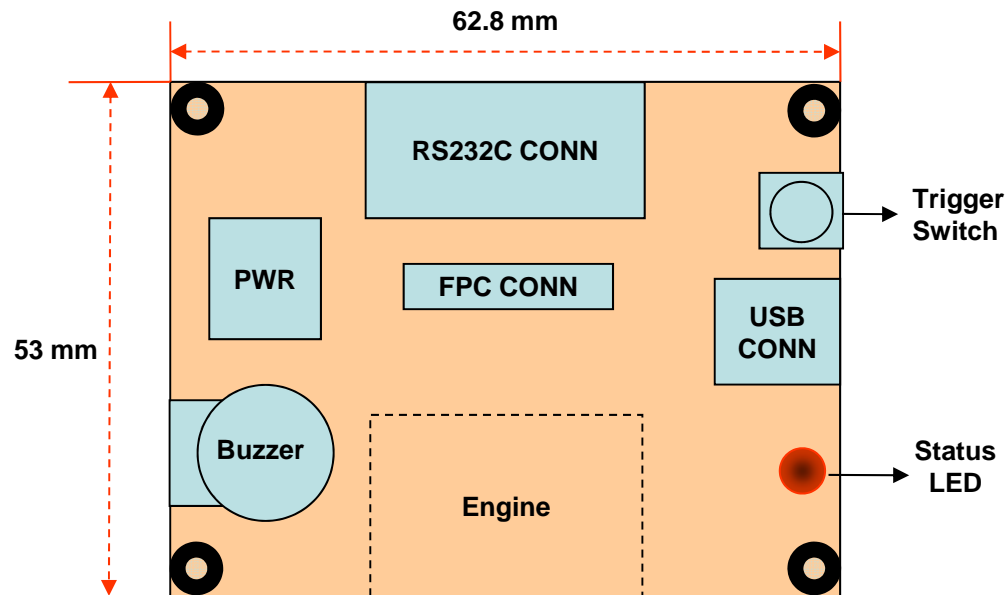
2D Barcode Miniature Imager (CSI-6000)

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.
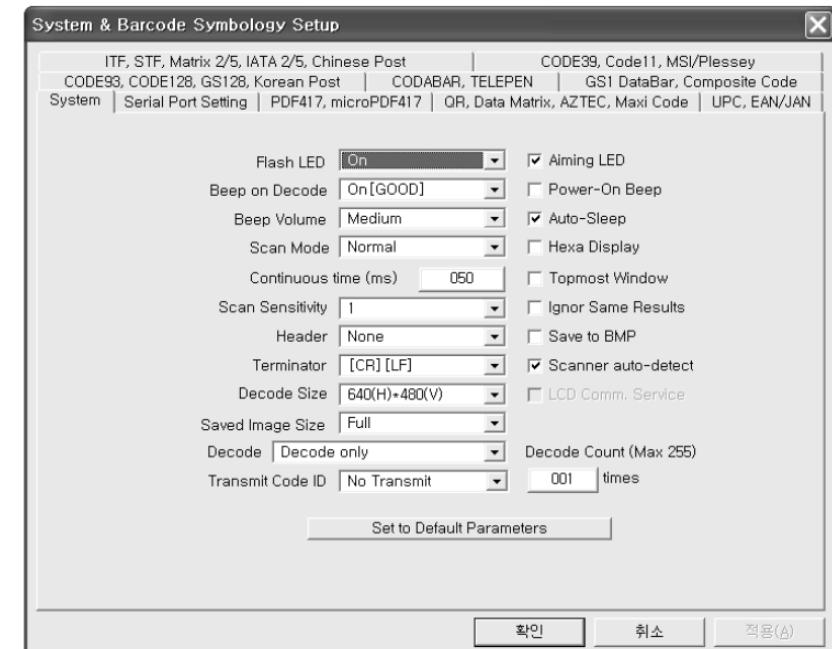
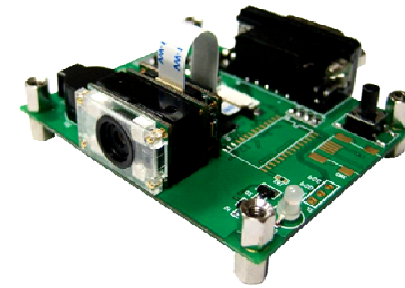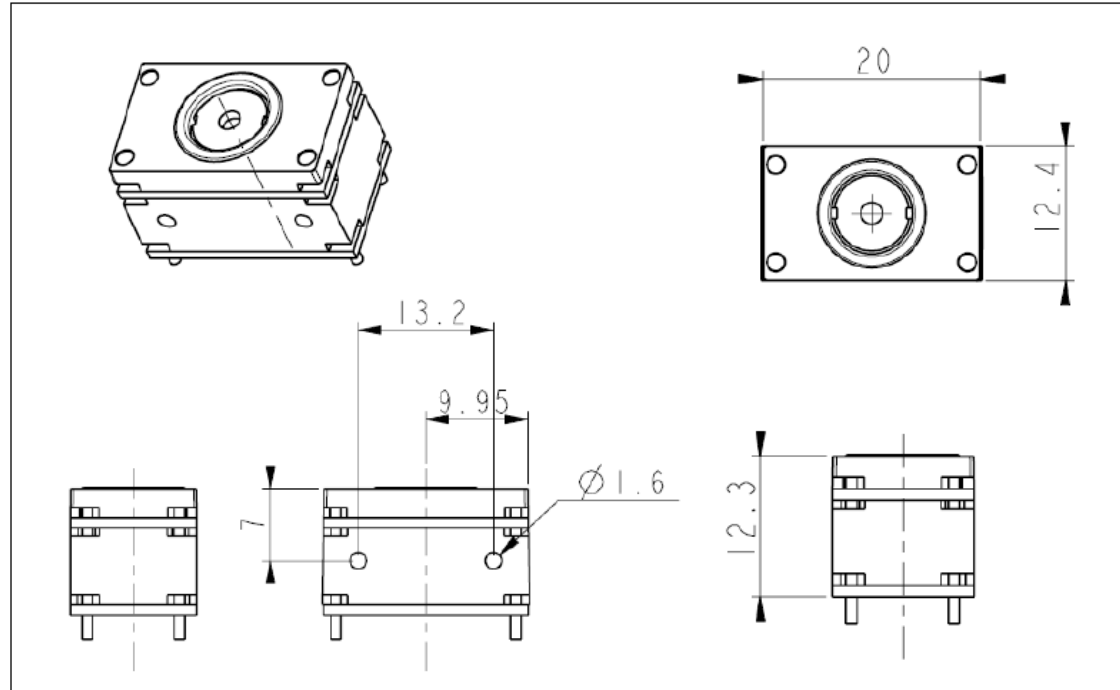# Setup Program (Startup of CSCenter^{TM})

Display of main window

CSCenter V.3.6   [COM4,115200bps] [Firmware: V.V1.7]

CSCenter
Help
Read CFG
Write CFG
Factory CFG
SnapShot
Barcode Setup
Applicaion I/F
ROM Update
ROM Down
Decoding
Camera Setup
Save Report
Easy Setup
Text Window

The flash downloading is complete and successful.

Please wait....
Scanner finished to default.
Recall & Saved scanner's CFG file.

Recall & Saved scanner's CFG file.

Serial Port Setting

System & Barcode Symbology Setup

ITF, STF, Matrix 2/5, IATA 2/5, Chinese Post | CODE39, Code11, MSI/Plessey
CODE93, CODE128, GS128, Korean Post | CODABAR, TELEPEN | GS1 DataBar, Composite Code
System | Serial Port Setting | PDF417, microPDF417 | QR, Data Matrix, AZTEC, Maxi Code | UPC, EAN/JAN

Comm. Port   Port 4
BaudRate   115200
Data Bit   8 Bit
Parity Bit   No Parity
Stop Bit   1 Bit
Handshaking   None

Barcode & System Setup

System & Barcode Symbology Setup

ITF, STF, Matrix 2/5, IATA 2/5, Chinese Post | CODE39, Code11, MSI/Plessey
CODE93, CODE128, GS128, Korean Post | CODABAR, TELEPEN | GS1 DataBar, Composite Code
System | Serial Port Setting | PDF417, microPDF417 | QR, Data Matrix, AZTEC, Maxi Code | UPC, EAN/JAN

Flash LED   On   ☑ Aiming LED
Beep on Decode   On [GOOD]   ☐ Power-On Beep
Beep Volume   Medium   ☑ Auto-Sleep
Scan Mode   Normal   ☐ Hexa Display
Continuous time (ms)   050   ☐ Topmost Window
Scan Sensitivity   1   ☐ Ignor Same Results
Header   None   ☐ Save to BMP
Terminator   [CR] [LF]   ☑ Scanner auto-detect
Decode Size   640(H)*480(V) ☐ LCD Comm. Service
Saved Image Size   Full
Decode   Decode only   Decode Count (Max 255)
Transmit Code ID   No Transmit   001 times

Set to Default Parameters

확인   취소   적용(A)
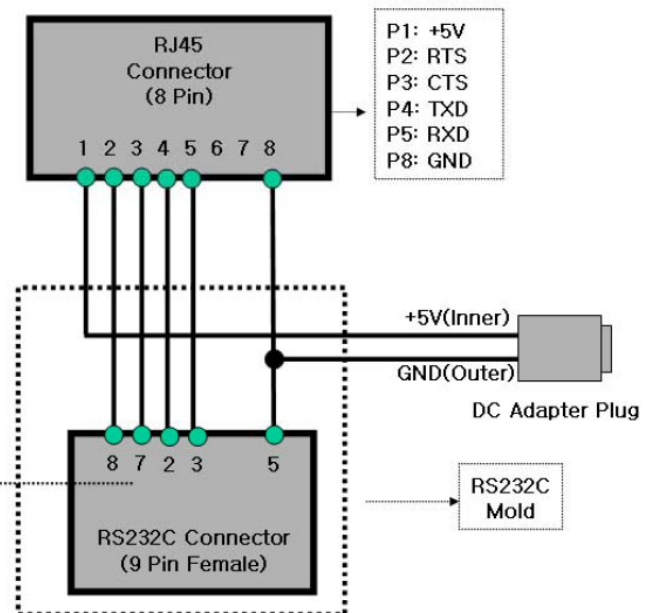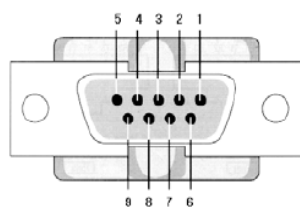
Engine & SDK Drawing

Interface cable for SDK
CSE-6000™-RS232C

RS232C Interface (DSUB 9 pin, Male)

Pin	Name	Description
2	RXD	Receive data
3	TXD	Transmit data
5	GND	Ground
7	RTS	Request to Send
8	CTS	Clear to Send
9	SG	Signal Ground

RJ45
Connector
(8 Pin)

1 2 3 4 5 6 7 8

P1: +5V
P2: RTS
P3: CTS
P4: TXD
P5: RXD
P8: GND

+5V(Inner)
GND(Outer)
DC Adapter Plug

P2: RXD
P3: TXD
P5: GND
P7: RTS
P8: CTS

8 7 2 3   5

RS232C Connector
(9 Pin Female)

RS232C
Mold