

Best platform for **In-Vehicle Infotainment** development.  
 Corresponds various functions by exchange module.



# Black Creek development kit

Equipped with Intel Atom™ Processor E660

OS : Linux (MeeGo)

RoHS



Intel Atom E660	GPS module
DDR2 SDRAM	DDR2 512MB
5inch LCD	WSVGA(1024 × 600)
DVI output	Touch panel
USB	SD/MicroSD
Video-IN	Sensor
SATA (Gen II)	Audio input/output

BDI004

Specifications are subject to change without notice.



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## Features

### 1 Able to develop application on Atom E660 at once

Includes Linux bootable HDD and Linux environment.

Able to develop application at once when separate OS boot up process.

### 2 Able to build [prototype] at once

Equipped with extension connector as UART, I2S, PCM etc. Moreover, includes circuit diagram, parts list etc, therefore, able to develop original prototype at once.

### 3 Shorten the process by parallel to develop H/W and S/W

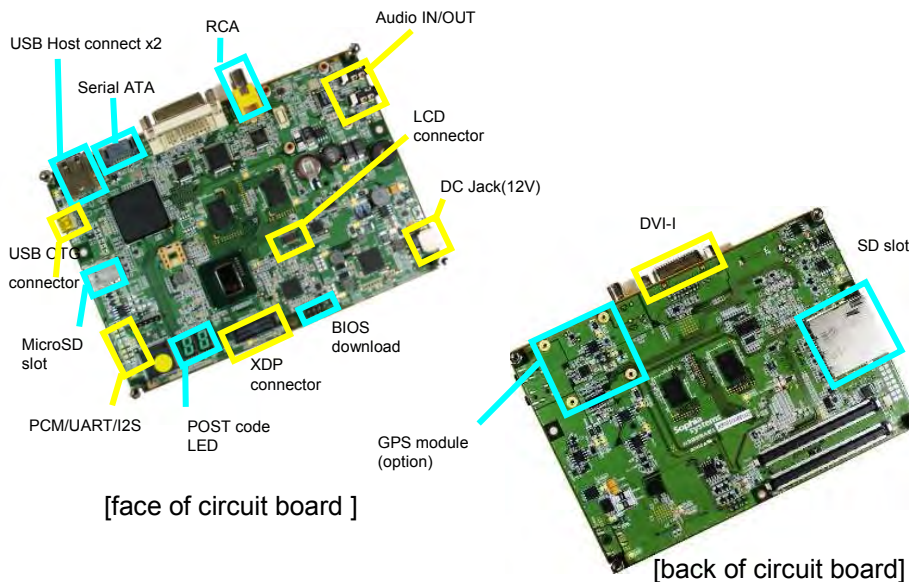
Able to start S/W development before finished H/W development by using this platform. Able to shorten the process by parallel to develop both H/W and S/W.

For more engineers can use this platform, we cut down the price and make it works more effective.

### 4 Custom Entrusted development based on the product

Sophia Systems can support entrusted development by various process. Circuit design, printed circuit design, EMC, parts, board, trail knowhow, body design, mass production manufacturing etc, as base platform is already completed, therefore, it is able to save time to release more quickly.

## Main interface

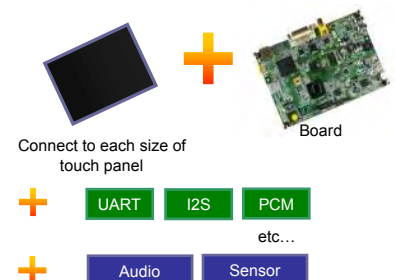


[face of circuit board ]

[back of circuit board]

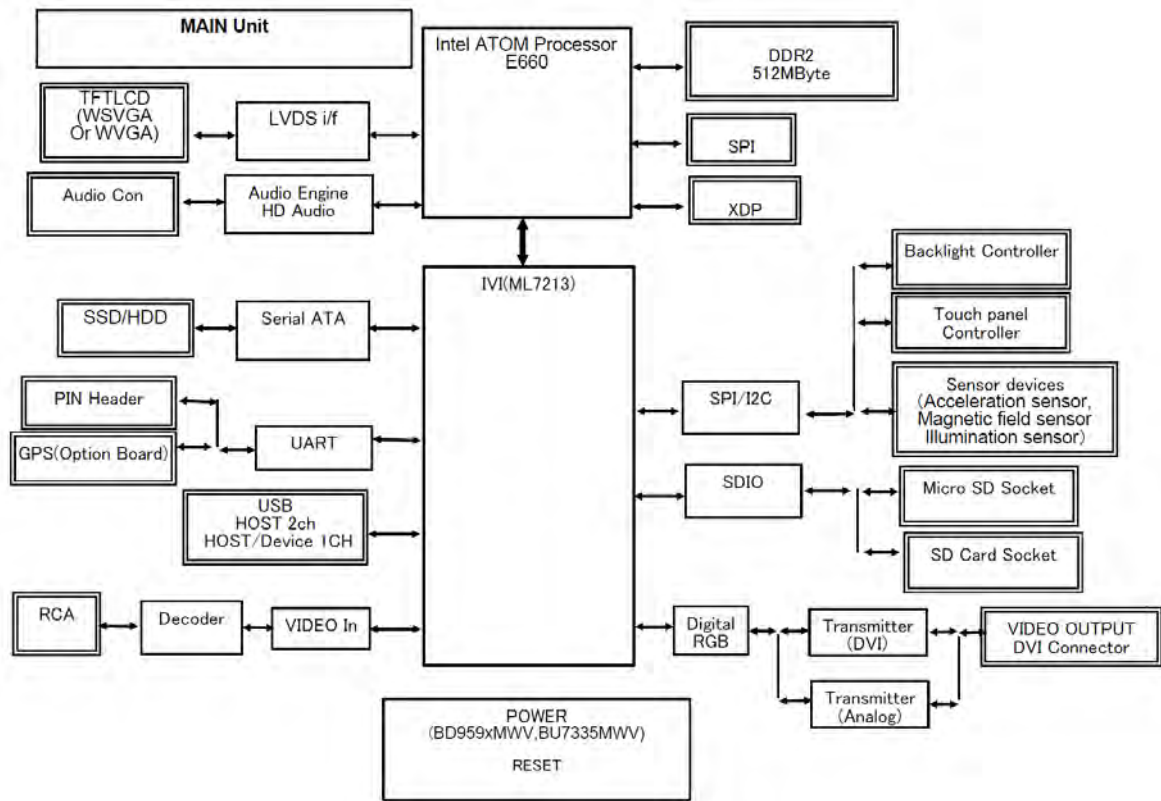
## Custom support

Able to release various product quickly by using this base platform. This platform board is equipped with video display, voice communication, touch panel LCD, interface etc. and possible for various development.



- Able to connect with each size of touch panel
- Evaluate peripheral I/O, module
- Customize audio, sensor, etc. as your image..

# Block figure



## H/W specification

Evaluation board spec		RoHS
HW		LCD 5.0 inch standard type
CPU		Intel Atom Processor E660
IOH		IVI (OKI Semiconductor)
Memory		DDR2-800 SDRAM 512MB
LCD	Display type	5 inch color TFT LCD
	Resolution	WSVGA (1024 x 600 dot)
Touch panel		Resistive touch panel
Indicated function		LED
GPS module		Option
Sen		Aacceleration, Geomagnetic, Illuminance sensor
IF	Card slot	SD card slot, micro SD slot
	USB	HOST 2ch (A connector), OTG, 1ch mini (AB connector)
Serial ATA		Serial ATA connector
VIDEO input		RCA connector
VIDEO output		DVI connector
Sound	Input	MIC in Jack
	Output	Stereo lineout Jack
	Pin header	I2S/PCM/UART interface
Debug		XDP connector
Power	External power	DC12V (±5%)
Board size		W155mm×D110mm×H44mm. (exclude projection part)

RoHS

### Caution

- All brands and product names are trademark or register trademarks of their respective companies.
- All configurations are subject to change without notice.

**Sophia systems™**

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## Composition

	● H/W	● S/W
<b>External image</b>		
<b>Composition</b>	H/W, AC adaptor, CD	Linux OS Kernel version Linux 2.6.33 Kernel, boot loader, Complete driver (source or binary), evaluation Application MeeGo I/O base ● Design information Manual, circuit diagram, parts list

## Option development environment

- SCD001 EJSCT JTAG for debugging H/W and S/W
- Brush-up BSP source for prototype development
- JTAG H/W, AC adaptor
- Please inquire price



©WATCHPOINT debugger [SCM0910E]  
©Support Service [SSSEN]

©Linux WP add-in soft for Linux loadable kernel module [U42499E]