

Motherboard

Notebook

Tablet PC

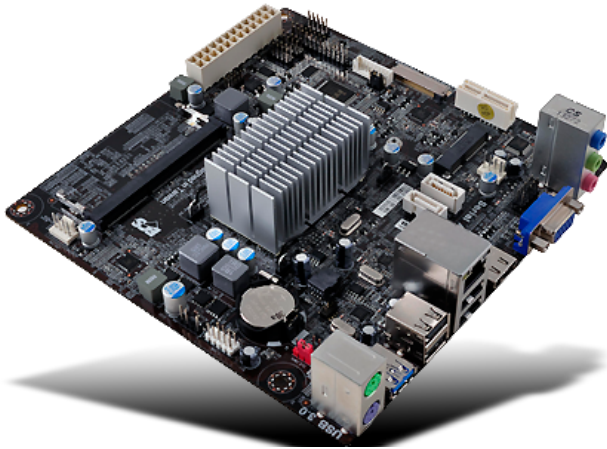
System

PCoS

LIVA


IPC

IoT

Keyword 

BAT-I (V1.0)

- Applied Solid Capacitor for CPU VRM to ensure a longer lifespan for system
- ECS Durathon Technology ensure the stability, reliability and performance of system.
- Dual Display design for multiple output support
- Integrated Printer (LPT) port / header to expand functionality
- Microsoft Windows 8 Certified
- Intel® VRD 12 Ready
- Supports DirectX® 11 to enhance graphical performance
- Supports HDMI 1.4a Technology (resolution up to 1920X1200) and HDCP function
- Free Bundle: CyberLink Media Suite

 More pictures



MAGIX MX SUITE - Cover all of your multimedia needs

MAGIX MX SUITE is exclusively provided to ECS users to enhance your multimedia experience, and for FREE! From website creation, video and music editing, to photo management, all of your multimedia needs will be easily fulfilled by using four MAGIX MX SUITE products provided by ECS. Learn more about [MAGIX MX SUITE](#)



Support Microsoft® Windows® 8 Operating System

Support for the next version of Microsoft Windows - Windows 8 which is the first edition of Windows to support for both x86 PCs and ARM tablets.

It includes many brand new features, including :

1. Instant Boot Speed(Win 8 only takes about 8 seconds)
2. Metro Interface
3. All about Touch
4. Native Support of USB3.0
5. Internet Explorer 10
6. Windows APP Store
7. Brand New Windows Task Manager
8. Integrated Xbox Live

9. "Windows to go" via USB devices
10. Support it's own native PDF reader
11. Photo App
12. Built-In Anti Virus



Support HD Video Playback

Smoothly playback all H.264, VC-1, and MPEG-2 video with minimal CPU usage through integrated Graphics in chipset or CPU.



eBLU BIOS Live Update Utility

Save time and hassle of searching for BIOS online and avoid complicated flashing steps.

Benefits:

·Time-saving·Smart and easy·Safe and secure·Free and upgradable

[See details](#)



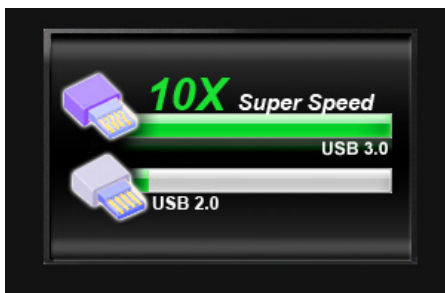
DirectX® 11 Support

DirectX 11 features the latest technologies of Compute Shaders, Direct 2D, Multithreaded Rendering and Tessellation for create rich worlds, realistic characters and more fluid gameplay.



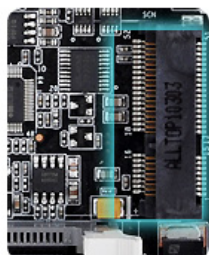
Full Duplex Operation Support - USB 3.0

Ten times the transfer speed of USB2.0, running at speed up to amazing 4.9Gb/s.



Featuring Mini PCI Express Slot

The Mini-PCIe slot has a new 52 pin edge connector and it is much smaller in overall size. It is designed for laptops and other small-footprint computer systems and supports Mini-PCI card for mini- Wireless, mini-TV tuner and so on.



Windows® 8 Hardware Certification

Support the latest Windows 8 technology which provides touch-enabled control, Apps and can connect with the cloud to connect with your files, photos, people, and settings, wherever you sign in.



Multi-language BIOS

Multi-language BIOS allows you to see and set up the BIOS with your native language. It helps Non-English users to solve the problem of setting up the BIOS and achieve extra system performance easily.



Support DirectX 11

DirectX 11 features the latest technologies of Compute Shaders, Direct 2D, Multithreaded Rendering and Tessellation for create rich worlds, realistic characters and more fluid gameplay.



Multi-Monitor

Multi-Monitor feature is the use of multiple display devices for increasing the area available for programs running on a single computer system. It is not only to increase larger screen viewing but also for improving personal productivity.



Support Blu-ray-1080P

Features loss-less content protection technology that allows full-rate audio and quality performance for Blu-ray Discs.



PCI EXPRESS 2.0

The exceptionally increased interconnect bit rate from 2.5GT/s up to 5.0GT/s would effectively eliminates the bottle neck of the system performance and brings the most terrific computing experience from the present to the future.



Mini PCI Express

The Mini-PCIe slot has a new 52 pin edge connector and it is much smaller in overall size. It is designed for laptops and other small-footprint computer systems and supports Mini-PCI card for mini- Wireless, mini-TV tuner, mini-SATA cards and so on.



SATA 3.0Gb/s

Doubles the transfer speed of SATA, running at speed up to 3.0Gb/s, and fully compatible with the soon-to-be-released SATA HDD, CD-ROM and other cutting-edge devices with NCQ function support.



6 Channel High Definition Audio

Integrated 6-channel HD Audio CODEC delivering advanced multi-channel audio and bringing you the experience of home



Gigabit LAN (optional)

Delivers transfer speed ten times faster than conventional 10/100 Ethernet connections, supporting a high transfer rate up to

theater-quality sound.



10/100 LAN (Optional)

Provides 10/100 Mbps solution to your network or broadband connection without having to buy an extra LAN card.



USB 2.0

USB2.0 is the latest connectivity standard which delivers transfer speeds up to 480Mb/s for easy connectivity and ultra-fast data transfers.



D-Sub output

D-Sub connection technology is used for connecting computer and monitor by analog signal. It is reliable and stable for signals transmit from point A to B.



eDLU - Drivers Live Update Utility

ECS eDLU utility makes updating Drivers fast and easy. eDLU Saves time and hassle of searching for Drivers online and avoid complicated steps. With simple and easy steps it checks for new Drivers version on-line and let the user to update the Drivers.



Intelligent EZ Utility

ECS Intelligent EZ provides convenient way of operation letting you use easily and comfortably enjoy high performance on your system.



ROHS

Choose an environment-friendly, fully RoHS-compliant ECS product as the foundation for keeping harmful substances out of our ecosystem.



Full HD Display

16:9 Full HD wide screen shows the stunning crystal-clear image that brings an excellent visual experience for gaming or HD movie playback.

Mini-ITX

Mini-ITX gives you freedom to choose smaller and cool-looking



USB 3.0

The latest generation Super Speed USB 3.0 Card is able to transfer data 10 times faster than USB 2.0. An innovative power management system provide better energy saving and carry more power to recharge more USB rechargeable devices. USB 3.0 Card is compatible with USB 2.0 to add more convenience and excellent performance.



HDMI Output

The interface supports existing high-definition video formats(720p, 1080i, and even 1080p), plus multi-channel digital audio on a single cable. Combination with HDCP, provides a secure audio/video interface that meets the security requirements of content providers and systems operators.



eBLU - BIOS Live Update Utility

ECS eBLU utility makes updating BIOS fast and easy. eBLU saves time and hassle of searching for BIOS online and avoid complicated flashing steps. With simple and easy steps it checks for new BIOS version on-line and safely guides the user to flash the system BIOS.



Norton™ Internet Security

Simple, Easy-to-Use Interface, delivers fast and comprehensive online threat protection, guarding your PC, network, without slowing you down. Giving you greater insight into downloaded applications, whether they can be trusted, and how they may impact your PC's resources and performance Offering users a safer and more convenient environment than ever.ECS recommends the immediate installation of Norton Internet Security of your computer.



Fanless Design

The fanless design enables noise-free and dust-free advantages, especially designed for home theater (HTPC) enthusiasts.



ErP Ready

ECS Motherboards have been certified by ErP of European Union. Stand by mode and off mode not to exceed 0.50W consumption to save energy and maintain sustainable environment.



VRD 12 Compliant

Voltage Regulator Down (VRD) 12 is the newest(2010 release) power standard that provides better energy efficiency for Intel processors by advanced power supplying. The energy can be greatly saved during idle operation or other low load conditions.

MUZEE

MUZEE provides a total solution for online multimedia in the



case. It is easy to build your own personalized media centralized PC.



cloud generation, which is easy to integrate with multiple hardware devices. Users can access to thousands of worldwide radio stations, TV channels and games to indulge in the latest online entertainment anywhere and anytime within few simple clicks.



CyberLink Media Suite Bundled

Bundled the Ultimate HD & Blu-ray Player ,Best Video Editing and Backup/Burn Softwares. (30 Days Trial Version) These software are complete multimedia solutions in : -HD playback - Video Editing -Media burning



CPU	<ul style="list-style-type: none"> ◦ Onboard Intel® Bay Trail processors ◦ On-Board CPU Selections Intel® Bay Trail J1800 processor. Intel® Bay Trail J1900 processor. Intel® Bay Trail J2900 processor. ◦ VRD 12.0 ◦ Solid Capacitor for CPU side ◦ Supports Intel® Hyper-Threading Technology
GRAPHICS	<ul style="list-style-type: none"> ◦ Supports DirectX® 11 ◦ Supports Full HD 1080P Blu-ray / HD-DVD Playback
MEMORY	<ul style="list-style-type: none"> ◦ Single-channel DDR3 SO-DIMM Memory architecture ◦ 1 X DDR3 SO-DIMM socket ◦ Support up to 8 GB*
EXPANSION SLOT	<ul style="list-style-type: none"> ◦ 1 X Mini PCI Express X1 slot(s) for Wi-Fi /Bluetooth modules
Storage	<ul style="list-style-type: none"> ◦ 2 X Serial ATAII 3Gb/s
Audio	<ul style="list-style-type: none"> ◦ 6-Channel HD audio CODEC ◦ VIA VT1705 6-channel High Definition audio CODEC ◦ BluRay DVD/HD DVD support
LAN	<ul style="list-style-type: none"> ◦ Realtek RTL8111G Gigabit Fast Ethernet Controller ◦ (Realtek RTL8106E 10/100Mbps Fast Ethernet Controller optional)
USB	<ul style="list-style-type: none"> ◦ 1 X USB3.0 port(s) up to 5Gb/s <li style="padding-left: 20px;">Back Panel 1 port(s) • 6 X USB2.0 port(s) Up to 480 Mb/s <li style="padding-left: 20px;">Back Panel 4 port(s) <li style="padding-left: 20px;">Onboard 2 port(s)
REAR PANEL I/O	<ul style="list-style-type: none"> ◦ 1 X PS/2 Keyboard & PS/2 mouse connectors ◦ 1 X Audio port (Line Out/Line In/Mic In) ◦ 1 X RJ-45 port ◦ 1 X HDMI port(s)

	<ul style="list-style-type: none"> ◦ 1 X D-Sub (VGA) port(s) ◦ 1 X USB3.0 port(s) ◦ 4 X USB2.0 port(s)
CONNECTORS & HEADERS	<ul style="list-style-type: none"> ◦ 1 X 4-pin CPU_FAN connector with smart fan ◦ 1 X 4-pin SYS_FAN connector with smart fan ◦ 1 X Front Panel MIC/Speaker out header ◦ 1 X Front Panel switch/LED header ◦ 1 X USB 2.0 header <ul style="list-style-type: none"> • Support additional 2 USB ports ◦ 2 X SATA II 3Gb/s connector(s) ◦ 1 X CLR_CMOS header ◦ 2 X Serial port header (COM) ◦ 1 X Parallel port header (LPT) ◦ 1 X LVDS connector (optional)
SYSTEM BIOS	<ul style="list-style-type: none"> ◦ AMI BIOS with 8 MB SPI Flash ROM ◦ Supports ACPI 5.0 & DMI ◦ Dual Display ◦ Plug and Play, STR (S3) / STD (S4) , Hardware monitor, Multi Boot ◦ Multi-Language BIOS ◦ Audio, LAN, can be disabled in BIOS ◦ Dual-Monitor function
FORM FACTOR	<ul style="list-style-type: none"> ◦ Mini ITX Form Factor ◦ 170 mm x 170 mm
OS Support	<ul style="list-style-type: none"> ◦ Windows 7 64-bit ◦ Windows 8.1 32-bit ◦ Windows 8.1 64-bit ◦ Windows 10 64-bit ◦ Windows 10 32-bit
Certifications	<ul style="list-style-type: none"> ◦ CE/FCC Certification ◦ ErP/EuP Certification ◦ WHQL Certification ◦ WHCK Certification
Bundled Software	<ul style="list-style-type: none"> ◦ Free Bundle: CyberLink Media Suite

Driver Download

Select your OS ▼

+ [BIOS\(1\)](#)

+ [MANUAL\(1\)](#)

IMPORTANT NOTE:

Please read the notes carefully before updating BIOS.

1. Do not update the BIOS if the system is running fine. Unsuccessful BIOS flash may cause the system fails to boot up. The manufacturer is not responsible for any BIOS flash failure.

2. Make sure your M/B PCB version number first, and then read the updated description & special note carefully to check if the new BIOS version patch pertain to your current problem.

(How to recognize the M/B PCB version)

3. Please DO NOT reboot system, unplug power supply and remove battery during BIOS update process.

4. It is recommended to use the updated flash utility included in each BIOS download package.

(How to use flash utility).

OS	ID NO	Product Line
Windows 8.1 64 bit	1622947	Motherboard

* means validated by ECS at time of writing. Changes to component or CPU may produce a different outcome. The result shown is for reference only and is subject to change w/o notification.

Socket	Family	Processor	Wattage	Frequency	Cache	Stepping	Since BIOS
FCBGA1170	Intel Pentium	J2850	10W	2.41GHz	2MB	B2	09/13/2013
FCBGA1170	Intel Pentium	J2900	10W	2.41GHz	2MB	B3	11/14/2013
FCBGA1170	Intel Celeron	J1750	10W	2.41GHz	1MB	B2	09/13/2013
FCBGA1170	Intel Celeron	J1800	10W	2.41GHz	1MB	B3	11/14/2013
FCBGA1170	Intel Celeron	J1850	10W	2.00GHz	2MB	B2	09/13/2013
FCBGA1170	Intel Celeron	J1900	10W	2.00GHz	2MB	B3	11/14/2013

* Due to the chipset limitation, the actual memory speed may be different.

Type	Speed	Size	Vender	Module	Chip Brand	SS/DS	RAW Card	Working Speed
DDR3 (SODIMM)	1333MHz	1GB	Micron	MT4JSF12864HZ-1G4D1	Micron	DS	B	Full Speed
DDR3 (SODIMM)	1333MHz	2GB	Apacer	78.A2GC6.9L1	Apacer	DS	F	Full Speed
DDR3 (SODIMM)	1333MHz	2GB	Micron	MT8JSF25664HZ-1G4D1	Micron	DS	F	Full Speed
DDR3L (SODIMM)	1333MHz	2GB	Micron	MT8KTF25664HZ-1G4M1	Micron	DS	N/A	Full Speed
DDR3 (SODIMM)	1333MHz	2GB	PSC	AS7F8G73D-DG1	PSC	DS	B	Full Speed

DDR3 SODIMM	1333MHz	2GB	goldkey	GKH200S025608- 1333A	SEC	SS	B	Full Speed
DDR3 SODIMM	1333MHz	2GB	goldkey	GKH200S025608- 1333A	goldkey	SS	B	Full Speed
DDR3 (SODIMM)	1333MHz	4GB	A-DATA	AD7311C1674EV	A-DATA	DS	F	Full Speed
DDR3 (SODIMM)	1333MHz	4GB	Hynix	HMT351S6BFR8C- H9	Hynix	DS	F	Full Speed
DDR3 (SODIMM)	1333MHz	4GB	KingMax	FSFF65F-C8KM9	KingMax	DS	F	Full Speed
DDR3 (SODIMM)	1333MHz	4GB	Kingston	KVR1333D3S9/4G	Kingston	DS	F	Full Speed
DDR3L (SODIMM)	1333MHz	4GB	Micron	MT16KTF51264HZ- 1G4M1	Micron	DS	N/A	Full Speed
DDR3 (SODIMM)	1333MHz	4GB	Samsung	M471B5273CH0- CH9	SEC	DS	F	Full Speed
DDR3 (SODIMM)	1333MHz	8GB	A-DATA	AD3S1333W8G9-B	Elpida	DS	F	Full Speed
DDR3 (SODIMM)	1333MHz	8GB	Unifosa	HU6H5503UI0001	Unifosa	DS	F	Full Speed
DDR3L (SODIMM)	1600MHz	2GB	Hynix	HMT425S6AFR6A- PB	Hynix	DS	C	Runs at 1333MHz
DDR3L SODIMM	1600MHz	2GB	goldkey	GKH200S025608- 1600AL	SEC	SS	B	Runs at 1333MHz
DDR3L SODIMM	1600MHz	2GB	goldkey	GKH200S025608- 1600AL	goldkey	SS	B	Runs at 1333MHz
DDR3L (SODIMM)	1600MHz	4GB	A-DATA	AM1L16BC4R1- B1GS	A-DATA	DS	N/A	Runs at 1333MHz
DDR3 (SODIMM)	1600MHz	4GB	AVEXIR	AVD3S16001104G- 1SW	AVEXIR	DS	F	Runs at 1333MHz
DDR3 (SODIMM)	1600MHz	4GB	Apacer	78.B2GCN.9K00C	Apacer	DS	B	Runs at 1333MHz
DDR3L (SODIMM)	1600MHz	4GB	Kingston	ACR16D3LS1KBG	Kingston	DS	B	Runs at 1333MHz
DDR3 (SODIMM)	1600MHz	4GB	PSC	AS9F8L93B-GN2E	PSC	DS	B	Runs at 1333MHz
DDR3L SODIMM	1600MHz	4GB	V-Color	TN4G4C611-H11SD	Spectek	SS	C	Runs at 1333MHz
DDR3L (SODIMM)	1600MHz	8GB	A-DATA	AM1L16BC4R1- B1GS	A-DATA	DS	N/A	Runs at 1333MHz
DDR3 (SODIMM)	1600MHz	8GB	AVEXIR	AVD3S16001108G- 2SW	AVEXIR	DS	F	Runs at 1333MHz

DDR3L (SODIMM)	1600MHz	8GB	Kingston	ACR16D3LU1KBG	Kingston	DS	F	Runs at 1333MHz
DDR3 (SODIMM)	1600MHz	8GB	PSC	ASAF8L93B-GN2E	PSC	DS	F	Runs at 1333MHz

SATA

USB3.0

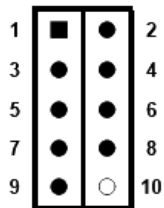
Model: BAT-I

PCB Version: V1.0

Note:

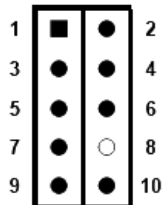
Some Pins' descriptions may vary from model to model. We highly recommend you to refer to the User Manual of your motherboard accordingly for it's Pin Define. If there is any question, please log in "ECS Technical Support" site for further assistance.

Front Panel



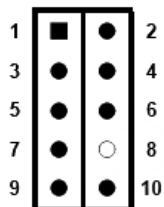
Pin	Description	Pin	Description
1	HDD LED pull-up to +5v	2	MSG LED pull-up to VCC_DUAL (for DIMM)
3	HDD active LED	4	MSG LED pull-up to VCC_DUAL (for DIMM)
5	Reset GND	6	Power_BTN
7	HW_Reset	8	Power Switch GND
9	RSVD	10	No Pin

F_Audio (AC97)



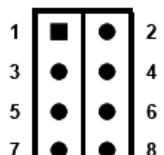
Pin	Description	Pin	Description
1	Front panel microphone input signal	2	Analog ground
3	Microphone power	4	Analog power (+5V)
5	Right channel to front panel	6	Right channel return from front panel
7	RSVD	8	No Pin
9	Left channel to front panel	10	Left channel return from panel

F_Audio (HDA)



Pin	Description	Pin	Description
1	Front panel microphone input signal	2	Analog ground
3	Microphone power	4	Presence#
5	Right channel to front panel	6	Sense1_Return
7	Sense_Send	8	No Pin
9	Left channel to front panel	10	Sense2_Return

F_USB 2.0

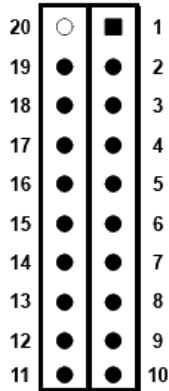


Pin	Description	Pin	Description
1	USBVCC	2	USBVCC
3	USBPA-	4	USBPB-
5	USBPA+	6	USBPB+



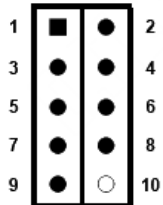
7	Ground	8	Ground
9	No Pin	10	USBOC-

USB3F (USB3.0)



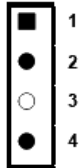
Pin	Description	Pin	Description
1	USB POWER	11	D1+
2	SSRX0+	12	D1-
3	SSRX0-	13	GND
4	GND	14	SSTX1+
5	SSTX0-	15	SSTX1-
6	SSTX0+	16	GND
7	GND	17	SSRX1+
8	D0-	18	SSRX1-
9	D0+	19	USB POWER
10	NC	20	Key

COM Header



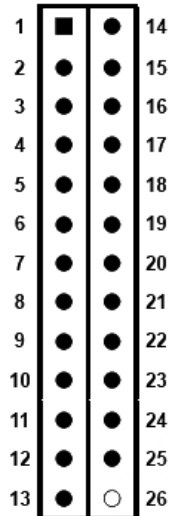
Pin	Description	Pin	Description
1	DCD	2	RX
3	TX	4	DTR
5	Ground	6	DSR
7	RTS	8	CTS
9	RI	10	No Pin

S/PDIF-Out Header



Pin	Description
1	SPDIF-out
2	Device Power (+5V)
3	No Pin
4	Ground

LPT Header



Pin	Description	Pin	Description
1	STB	14	AFD
2	PD0	15	ERR
3	PD1	16	PRNINIT
4	PD2	17	SLIN
5	PD3	18	GND
6	PD4	19	GND1
7	PD5	20	GND2
8	PD6	21	GND3
9	PD7	22	GND4
10	ACK	23	GND5
11	BUSY	24	GND6
12	PE	25	GND7
13	SLCT	26	No Pin

MEDIA

- Newsroom
- Awards
- Event Center
- Media/Sales Contacts
- ECS Channel

SUPPORT

- Download Center
- FAQ/General FAQ
- Technical Support
- Windows Certificate
- ECS Dictionary

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- Introduction
- Investor Relationship
- ECS Partner Portal
- Green ECS
- ECS CSR Report

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