

## Hi-Fi B85S 3D Motherboard



- Support the Intel 4th generation Core i7 and Core i5 processors in the 1150 package
- Intel B85 single chip architecture
- Support 4-DIMM DDR3-1600/1333 up to 32G maximum capacity
- On board HDMI supported 4K2K resolution enables high-definition image display
- 100% Solid Capacitors
- BIOSSTAR Hi-Fi 3D Technology
- Built-in powerful headphone Amplifier
- Intel SBA(Small Business Advantage) Technology
- Intel Rapid Start Technology
- Intel Smart Connect Technology

## Hi-Fi B85S 3D Specification

|                  |                                                                                                                                                                                                         |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CPU SUPPORT      | Intel® Core™ i7 LGA 1150 Processor<br>Intel® Core™ i5 LGA 1150 Processor<br>Intel® Core™ i3 LGA 1150 Processor<br>Intel® Pentium® LGA 1150 Processor<br>Maximum CPU TDP (Thermal Design Power) : 95Watt |
| MEMORY           | Support Dual Channel DDR3 1600/1333/1066 MHz<br>4 x DDR3 DIMM Memory Slot<br>Max. Supports up to 32GB Memory                                                                                            |
| INTEGRATED VIDEO | By CPU model<br>Supports DX11.1<br>Supports HDCP                                                                                                                                                        |
| STORAGE          | 4 x SATA III Connector<br>2 x SATA II Connector                                                                                                                                                         |
| LAN              | Realtek RTL8111G - 10/100/1000 Controller                                                                                                                                                               |
| AUDIO CODEC      | Realtek ALC892 8-Channel Blu-ray Audio                                                                                                                                                                  |
| USB              | 2 x USB 3.0 Port<br>1 x USB 3.0 Header<br>4 x USB 2.0 Port<br>2 x USB 2.0 Header                                                                                                                        |

|                        |                                                                                                                                                                                                                                                                                         |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EXPANSION SLOT         | 1 x PCI-E 3.0 x16 Slot<br>1 x PCI-E 2.0 x16 Slot(x4)<br>2 x PCI-E 2.0 x1 Slot<br>2 x PCI Slot                                                                                                                                                                                           |
| REAR I/O               | 1 x PS/2 Keyboard<br>2 x USB 3.0 Port<br>4 x USB 2.0 Port<br>1 x HDMI Connector<br>1 x DVI Connector<br>1 x VGA Port<br>1 x LAN Port<br>6 x Audio Jacks                                                                                                                                 |
| INTERNAL I/O           | 1 x USB 3.0 Header<br>2 x USB 2.0 Header<br>4 x SATA III Connector (6Gb/s)<br>2 x SATA II Connector (3Gb/s )<br>1 x Front Audio Header<br>1 x Front Panel Header<br>1 x S/PDIF-Out Header<br>1 x CPU Fan Connector<br>4 x System Fan Connector<br>1 x CIR Header<br>1 x COM Port Header |
| H/W MONITORING         | CPU / System Temperature Monitoring<br>CPU / System Fan Monitoring<br>Smart / Manual CPU Fan Control<br>System Voltage Monitoring                                                                                                                                                       |
| DIMENSION              | ATX Form Factor Dimension: 30.5cm x 22cm ( W x L )                                                                                                                                                                                                                                      |
| OS SUPPORT             | Supports Windows 7 / 8 / 10(x64)                                                                                                                                                                                                                                                        |
| BUNDLE SOFTWARE        | BIO-Remote2<br>BIO-Remote<br>Smart Speed LAN                                                                                                                                                                                                                                            |
| ACCESSORIES            | 4 x SATA Cable<br>1 x I/O Shield<br>1 x DVD Driver<br>1 x User Manual                                                                                                                                                                                                                   |
| FEATURES               | Windows 8 Ready<br>Supports PURO Hi-Fi 3D<br>Supports 100% Solid capacitor<br>Supports Rapid Switch<br>Rapid Debug3<br>Supports Charger Booster<br>Supports BIOS Online Update                                                                                                          |
| Hi-Fi B85S 3D OVERVIEW |                                                                                                                                                                                                                                                                                         |
| CPU-Chipset            |                                                                                                                                                                                                                                                                                         |



## Intel B85 chipset

Intel® B85 Express Chipset delivers improved performance and responsiveness. It adds the Intel® Smart Response Technology and RST caching technology, B85 delivers an agile PC response for fast system boot time and application load time when used in conjunction with a SSD.



## Intel LGA 1150 4th Generation Intel Core™ Processor support

The 4th generation Intel® Core™ processors are based on 4th generation Intel® Core™ processor architecture, with the latest 22nm process to maximize the processor platform. Based on the new LGA 1150 socket, 4th generation Intel® Core™ processors with graphics with DX11.1 & OCL1.2 cores, the overall performance will meet your demand.

## Audio+



## Blu-ray Audio

Upgrading your Audio performance in the easiest way is choosing BIOSTAR ultimate Motherboard. It does support Blu-ray audio DRM (compatible driver/software) and provide the higher audio output of 24 bit/ 192KHz than the 16 bit/ 48KHz from the normal MB. You will experience the high quality sound effect with pure Blu-Ray Audio.



## Smart Ear 3D

Smart Ear 3D provides true reproduction of virtual 3D space using any headphones! It delivers the true 3D sounds for music, movies and also games. It's fantastically, especially if you've never experienced this kind of acoustic phenomenon before.



## Hi-Fi Pre AMP

Hi-Fi 3D Technology is built-in power amplifier to boost the speaker volume. It will increase double volume level with high-quality HD audio output. Hi-Fi 3D Technology not only improves on the headphone but also enhances your speakers' sound volume.

Hi-Fi preamp can boost the line level audio signals from analog and digital sources to levels that a power amplifier can detect and boost again to successfully power up the loudspeaker.



## 3D Sound Fields

The six types of 3D Sound Fields are including Hi-Fi Theater, Hi-Fi Hall, Hi-Fi Game spots, Hi-Fi Studio, Hi-Fi Conference and Hi-Fi Bistro for your different applications. Biostar Hi-Fi 3D technology involves the virtual placement of sound sources anywhere in 3 dimensional spaces, including behind, above or below.



## Hi-V Caps

Hi-V Caps is "Metalized Polypropylene Film Capacitor" for each audio channel circuit. The customized audio capacitors deliver low noise, low distortion and wide bandwidth to achieve the highest sound resolution and sound expansion.



## Hi-Fi Power

Audio power is an important factor in audio quality. Most AV equipment isolates the power supply for each analog and digital signal to gather high-quality sound reproduction. Equipped with BIOSTAR Hi-Fi Power technology, it will utilize audio components with independent power design for a significant reduction in electronic noise and superb sound quality.



## Hi-Fi Ground

BIOSTAR Hi-Fi Ground ( Golden Line ) is noise-blocking multi-layer PCB design to isolate analog audio signals from digital sources. Unique PCB layout is ideal for exceptional clarity and high fidelity sound.



## Hi-Fi Sound

BIOSTAR Hi-Fi series motherboards have a sampling rate of 192kHz/24-bit which delivers a high quality audio through an analog connection to your home theater system, multi-channel speakers and high-end headphone. You can enjoy real Blu-ray grade high-definition sound that you've never experienced before.



## Hi-Fi AMP

The built-in amplifier can drive major high-end headphones with over 100dB loads and offer wide band-width, low noise, high slew rate and low distortion audio source from front panel I/O. Gaming enthusiasts can enjoy a fuller range of dynamic sound with crisper details and less distortion.



## Hi-Fi 110dB+

Embrace exceptional sound quality for the win with 110dB SNR and stylish and efficient EMI shield blocks electromagnetic interference to help provide cleaner audio. It has achieved a signal-to-noise ratio (SNR) of 110dB, yielding almost loss-less audio from rear audio connectors.

## Video+



## HDMI 3D Visual

The HDMI 3D Visual provides a level of interoperability for devices designed to deliver 3D content over the HDMI connection. The latest HDMI Specification adds key enhancements to support the market requirements for bringing broadcast 3D content into the home featuring key enhancements for 3D applications including the addition of mandatory 3D formats for broadcast content.

## Speed+



## SmartSpeedLAN

SmartSpeedLAN is a free software application which monitors and manages your PC's network behavior. With user-friendly GUI, it allows you to select and prioritize different types of network traffic, including gaming, media streaming, communications or web surfing. You can also set any specific applications, choosing to prioritize or block accordingly. SmartSpeedLAN can feature automatic management options that use adaptive networking intelligence to ensure that you are getting the best online experience possible.



## USB 3.0

Experience Fastest data transfers at 5 Gbps with USB 3.0--the new latest connectivity standard. Built to connect easily with next-generation components and peripherals, USB 3.0 transfers data 10X faster and backward compatible with previous USB 2.0 components.



## PCIe 3.0

PCIe 3.0 is the ubiquitous and general-purpose PCI Express I/O standard. At 8GT/s bit rate, the interconnect performance bandwidth is doubled over PCIe 2.0, while preserving compatibility with software and mechanical interfaces.



## SATAIII 6Gbps

SATAIII 6Gbps provides a higher bandwidth to retrieve and transfer HD media. With this super speed data transfer, SATAIII allows an incredible data boost which is 2x faster than the SATA II.



## SRT(Intel Smart Response Technology)

Intel Smart Response Technology is an Intel Rapid Storage Technology(RST) eaching feature that improves computer system performance. It allows a user to configure computer systems with an SSD used as cache memory between the hard disk drive and system memory. This provides the advantage of having a hard disk drive(or a RAID volume) for maximum storage capacity while delivering an SSD-like overall system performance experience.



## Intel Smart Connect

Smart Connect will periodically wake the computer is in sleep state, the things to check for updates and information.



## Intel Rapid Start

Rapid Start is a free utility that Biostar motherboard 8 series designed simply to install. Can quickly start to make rapid system recovery from a deep sleep at about 5 seconds.

## Durable+



## 100% Solid Caps

With armor-plated Biostar Technology, all capacitors are placed with 100% solid capacitors that have a lasting life cycle, durability and stability for crucial components.

## Protection+





## Intel® Small Business Advantage 2.0

Intel® Small Business Advantage 2.0 (Intel® SBA2.0) is a new computing platform, consisting of hardware, software, and firmware for small businesses without a managed network. Once configured, the technology will continually monitor your security and alarms you if it's been compromised by viruses or malware. It will also automatically back-up your company's data and manage routine maintenance tasks.

Intel SBA2.0 also includes five main applications :  
Software Monitor Software Monitor helps keep critical security software running by monitoring it at the hardware level and alerting the business if there has been an attack. The Software Monitor also maintains an event log that shows status information and any errors generated, so businesses can know what happened.



Data Backup and Restore Data Backup and Restore provides reliable after-hours backup of critical data using the local maintenance timer to power on the computer. Data can be backed up to a designated location.



USB Blocker The optional USB Blocker lets businesses control access to their infrastructure, preventing unauthorized USB devices or file imports or exports on company computers.



PC Health Center PC Health Center can schedule and do PC maintenance tasks after hours, without interrupting employee work time. Tasks such as updating the operating system, deleting temporary internet files, and running disk defragmentation can be done at night. PC Health Center works even if the computer is powered-down, as long as it is

plugged in.



Energy Saver With the optional Energy Saver, businesses can save energy by scheduling PCs to power-down at the end of the day and turn on before the work day begins - ready for

employees as they arrive in the morning.



New Enhancements Import/Export, Enhancements with

Windows 8, Easier Customizations



Intel Appup for Resellers An app store built for business, featuring Intel® SBA enhanced apps.



## High Quality ESD

BIOSTAR Hi-Fi series motherboards provide high quality ESD (Electro-Static Discharge) solution for its front I/O panel. This function prevents static electricity and reduces the damage to the motherboards when you are plugging or unplugging your headphone.



## BullGuard Internet Security (90 days FREE trial)

BullGuard Internet Security comes with the broadest line-up of internet security features on the market, including: a cutting-edge dual Antivirus engine, Online Backup for your precious files, PC Tune Up to speed up your system, a Game Mode for a seamless gaming experience, Parental Control, Firewall, Safe Browsing and many more. Make the most of your digital life with Bullguard!

DIY+



## UEFI BIOS

Unified Extensible Firmware Interface (UEFI) is a brand new framework that provides a revolutionary interface. It is a modern clear and easy-to-use graphical user interface. The UEFI comes with a colorful easy-understand icons leads users into the setup layer directly.



## Rapid Debug

There is no need to check any H/W installation error. Onboard LED indicator answers the question for the user.

**\*The specification and pictures are subject to change without notice and the package contents may differ by area or your motherboard version!**