

Hi-Fi Z87X 3D Motherboard



- Support the Intel 4th generation Core i7 and Core i5 processors in the 1150 package
- Intel Z87 single chip architecture
- Support 4-DIMM DDR3-2800(OC)/2600(OC)/2400(OC)/2200 up to 32G maximum capacity
- 3 PCI Express x 16 supported CFX multi-GPU Technology
- On board HDMI supported 4K2K resolution enables high-definition image display
- 100% Solid Capacitors
- BIOSSTAR Hi-Fi 3D Technology inside
- Built-in 3D Sound Field Headphone Amplifier
- Built-In 7.1 CH pre-amp for rear speakers 2X sound level
- Hi-Fi V-Cap for premium sound quality with lower distortion
- BIOSSTAR MCC(Multi-Channel Calibration) Technology
- Lucid MVP2 Technology
- Intel SRT (Smart Response Technology)
- Intel RST (Rapid Storage Technology)
- Intel Rapid Start Technology
- Intel Smart Connect Technology

Hi-Fi Z87X 3D Specifcation

CPU SUPPORT

Intel® Core™ i7 LGA 1150 Processor
 Intel® Core™ i5 LGA 1150 Processor
 Intel® Core™ i3 LGA 1150 Processor
 Intel® Pentium® LGA 1150 Processor
 Maximum CPU TDP (Thermal Design Power) :
 95Watt

MEMORY	Support Dual Channel DDR3 2800(OC)/ 2600(OC)/ 2400(OC)/ 2200(OC)/ 2133(OC)/ 1866(OC)/ 1800(OC)/ 1600/ 1333/ 1066 MHz 4 x DDR3 DIMM Memory Slot Max. Supports up to 32GB Memory
INTEGRATED VIDEO	By CPU model Supports DX11.1 Supports HDCP
STORAGE	6 x SATA III Connector Support SATA RAID: 0,1,5,10 Support Intel Smart Response Technology
LAN	Realtek RTL8111F - 10/100/1000 Controller
AUDIO CODEC	Realtek ALC898 8 Channel Blu-ray Audio
USB	2 x USB 3.0 Port 1 x USB 3.0 Header 4 x USB 2.0 Port 2 x USB 2.0 Header
EXPANSION SLOT	2 x PCI-E 3.0 x16 Slot(CFX x8) 1 x PCI-E 2.0 x16 Slot(x4) 3 x PCI-E 2.0 x1 Slot
REAR I/O	1 x PS/2 Keyboard 2 x USB 3.0 Port 4 x USB 2.0 Port 1 x HDMI Connector 1 x DVI Connector 1 x VGA Port 1 x LAN Port 6 x Audio Jacks
INTERNAL I/O	1 x USB 3.0 Header 2 x USB 2.0 Header 6 x SATA III Connector (6Gb/s) 1 x Front Audio Header 1 x Front Panel Header 1 x S/PDIF-Out Header 1 x CPU Fan Connector 4 x System Fan Connector 1 x CIR Header 1 x COM Port Header
H/W MONITORING	CPU / System Temperature Monitoring CPU / System Fan Monitoring Smart / Manual CPU Fan Control System Voltage Monitoring
DIMENSION	ATX Form Factor Dimension: 30.5cm x 24.4cm (W x L)

OS SUPPORT	Supports Windows 7 / 8 / 10(x64)
BUNDLE SOFTWARE	BIO-Remote2 BIO-Remote Smart Speed LAN
ACCESSORIES	4 x SATA Cable 1 x CrossFire Connector 1 x I/O Shield 1 x DVD Driver 1 x User Manual
FEATURES	Windows 8 Compatible Supports PURO Hi-Fi 3D Supports 100% Solid capacitor Supports Rapid Switch2 Rapid Debug3 Supports Charger Booster Supports BIOS Online Update

Hi-Fi Z87X 3D OVERVIEW

CPU-Chipset



Intel Z87 chipset

The Intel® Z87 Express Chipset is a single-chipset design to support socket 1150 Intel® 4th generation Intel® Core™ processor-based platform . Provides excellent performance and increased bandwidth and stability. Intel® Z87 Express Chipset can also enable iGPU function, letting users enjoy the latest Intel® integrated graphic performance. The PC platform features improved adaptive performance that adds speed when you need it. When combined with advanced system responsiveness, the platform delivers the ultimate PC experience.



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.



Sound Blaster Cinema

Sound Blaster™ Cinema is designed to bring the same great audio experience found in live performances, films, and recording studios - to the PC. Powered by the SBX Pro Studio technologies, the Sound Blaster Cinema delivers a much more realistic and immersive experience, conveniently placed in a central and intuitive console. Armed with the technology of the biggest name in PC gaming audio, gamers can leverage Sound Blaster Cinema to get the best sound enhancements for today's games powered by Sound Blaster SBX Pro Studio™ technology. Each of the five technologies of SBX Pro Studio is focused on delivering a more immersive gaming experience.



Hi-Fi AMP 3D

With the built-in new generation 3D amplifier, Biostar Hi-Fi 3D motherboard can drive major high-end headphones with over 100dB loads and up to 600ohm impedance. It allows you enjoy a fuller range of dynamic sound with crisper details and less distortion when you are using any headphones.



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 loadspeaker.



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.



MCC

Multi Channels Calibration (MCC) can transform any room into the ideal listening environment. With Multi Channels Calibration (MCC), audio performance is automatically calibrated according to the dimensions of your room. Simply place the speaker and setup the microphone at your usual listening spot, position the speakers and connect them. The users can set up the speaker settings easily by using a free bundle MCC software.



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 isolates analog audio signals from digital sources. Unique PCB layout is ideal for exceptional clarity and high fidelity sound.



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 form rear audio connectors.

Video+



HDMI 4K2K

The new 4K2K resolution enables high-definition image display with four times the resolution of full HD, 4K2K display is faithfully express bright, highly detailed content that fills the entire screen with lifelike images. Connectivity with PCs via a single HDMI cable for displaying 4K2K data.



ATI CrossFire X™ Technology

ATI CrossFireX™ is the ultimate multi-GPU performance gaming platform. With game-dominating power, ATI CrossFireX technology enables two or more discrete graphics processors to work together to improve system performance. It supports up to four ATI Radeon™ HD graphics cards, making it the most scalable gaming platform ever!



Lucid MVP2.0

Virtu Universal MVP2.0, is an optimized Lucid Virtu GPU virtualization software that makes your PC look better, respond faster, process video and media smoother, all within a low power environment, Virtu Universal MVP has many of the same features as the popular Virtu software, but with a twist - the addition of the optional Hyperformance feature for intelligent reduction of redundant rendering tasks in the flow between the CPU, GPU and display.



Integrated HDMI with HDCP

Onboard HDMI connector allows full video & audio support. It has industry-leading high definition video quality.

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.



Charger Booster

Charger booster is the best and efficient charger solution for apple devices such as iPad, iPhone. Basically, Charger booster Technology is able to boost the charging time to be more efficiency and faster once any apple goods connecting to our Motherboard. With charger booster technology, you are able to charge your apple devices up to 42 % faster.



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.



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.



T-Overclocker

T-overclocker presents a simple Windows-based system performance enhancement and utility management. It features several powerful yet easy to use tools such as overclocking for system performance enhancement, CPU and memory special enhancement, a smart-fan control for managing fan speed control of both CPU cooling fan, north-bridge chipset cooling fan, PC health for monitoring system status, and pre-set OC modes for easy OC.

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+



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.



BIO-Remote 2

BIO-Remote2 Technology is featuring users a better Home Theater environment. Users who own either Android mobile or Apple goods are able to access and control your PC remotely; At this moment, you're smart device became a intelligent and functional remote controller; more than that, BIO-Remote2 also includes both function of mouse pad and power point presentation mode.



BIO-Flasher

BIO-Flasher is a convenient BIOS update tool. Just launch this tool and put the BIOS on USB pen driver before entering the OS. You can update your BIOS with only a few clicks without preparing an additional floppy disk or other complicated flash utility.



Rapid Switch 2

Engineered by BIOSSTAR, the exquisite onboard switches allow you to easily shut down and restart your system.



Rapid Debug 3

Rapid Debug 3 posts critical POST code information in a digital LED display. When system malfunction occurs, it auto-detects the device's failure and translates the error codes on the digital LED.

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