

Hi-Fi B150Z5 Motherboard



- Supports 6th Generation Intel® Core[™] Processor
- Intel B150 single chip architecture
- Support DDR4/ DDR3L combo
- BIOSTAR Hi-Fi Technology inside
- Support USB 3.0
- Support SATA Express(16Gb/s)

Hi-Fi B150Z5 Specifcation

CPU SUPPORT	7th & 6th Gen Intel® Core™ i7 LGA 1151 Processor 7th & 6th Gen Intel® Core™ i5 LGA 1151 Processor 7th & 6th Gen Intel® Core™ i3 LGA 1151 Processor 7th & 6th Gen Intel® Pentium® LGA 1151 Processor 7th & 6th Gen Intel® Celeron® LGA 1151 Processor Maximum CPU TDP (Thermal Design Power) : 95Watt
MEMORY	Support Dual Channel DDR3L 1866(OC)/1600/ 1333 MHz Support Dual Channel DDR4 2133/ 1866 MHz 2 x DDR3 DIMM Memory Slot 2 x DDR4 DIMM Memory Slot Max. Supports up to 16(DDR3L)/ 32(DDR4)GB Memory
INTEGRATED VIDEO	By CPU model Supports DX12 Supports HDCP
STORAGE	4 x SATA III Connector 1 x SATA Express 16Gb/s Connector
LAN	Intel i219V - Gigabit Ethernet PHY

AUDIO CODEC	Realtek ALC892 8-Channel Blu-ray Audio Support Blu-ray Audio Support HD Audio Support Biostar Hi-Fi
USB	4 x USB 3.0 Port 1 x USB 3.0 Header 2 x USB 2.0 Port 2 x USB 2.0 Header
EXPANSION SLOT	2 x PCI-E 3.0 x16 Slot(x16 + x4) 1 x PCI-E 3.0 x1 Slot 3 x PCI Slot
REAR I/O	1 x PS/2 Keyboard 4 x USB 3.0 Port 2 x USB 2.0 Port 1 x HDMI Connector, resolution up to 4096 x 2160 @24Hz, compliant with HDMI 1.4a 1 x DVI-D Connector, resolution up to 1920 x 1200 @60Hz 1 x VGA Port, resolution up to 1920 x 1200 @60Hz 1 x LAN Port 3 x Audio Jacks
INTERNAL I/O	1 x USB 3.0 Header 2 x USB 2.0 Header 4 x SATA III Connector (6Gb/s) 1 x SATA Express 16Gb/s Connector 1 x Front Audio Header 1 x Front Panel Header 1 x S/PDIF-Out Header 1 x CPU Fan Connector 2 x System Fan Connector 1 x COM Port Header
H/W MONITORING	CPU / System Temperature Monitoring CPU / System Fan Monitoring Smart / Manual CPU / System Fan Control System Voltage Monitoring
DIMENSION	ATX Form Factor Dimension: 30.5cm x 22cm (W x L)
OS SUPPORT	Supports Windows 7 / 8.1(x64) / 10(x64)
BUNDLE SOFTWARE	BullGuard Smart Ear headphone Utility BIO-Remote2
ACCESSORIES	2 x SATA Cable 1 x I/O Shield 1 x DVD Driver 1 x User Manual

FEATURES

Supports Double Hi-Fi Supports 100% Solid capacitor Supports Charger Booster II Supports BIOS Online Update

Hi-Fi B150Z5 OVERVIEW

CPU-Chipset





Audio+

Intel B150 chipset

The Intel® B150 chipset is a single-chipset design to support socket 1151 Intel® 6th generation Intel® Core[™] processor-based platform. Provides excellent performance and increased bandwidth and stability. Intel® B150 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 1151 6th Generation Intel Core™ Processor support

The 6th generation Intel® Core[™] processors are based on 5th generation Intel® Core[™] processor architecture, with the latest 14nm process to maximize the processor platform. Based on the new LGA 1151 socket, 5th generation Intel® Core[™] processors with graphics with DX12 & OCL2.0 cores , the overall performance will meet your demand.









Hi-Fi

A combination of exclusive hardware & software design including "ground-isolation circuit design", "an independent audio power", and "a built=on-board amplifier", with all these hardware features gives you the best audio quality and performance. As for software, we offer you a free bundle utility "Multi-Channel Calibration" which normally you'll find in high level sound systems; this feature allows you to auto detect your location; with a user friendly interface, you can easily adjust the volume of every speakers to make a well balanced surround sound. And of course, the built-on-board amplifier always gives you a super powerful sound comparing to other motherboards.

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.

МСС

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 highquality 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 noiseblocking 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 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 Bluray 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.

Smart Ear

Smart EAR is a windows-based audio utility which allows you to easily adjust system volume. With its user-friendly GUI, you can also increase or decrease impedance setting (Low/High Gain) to optimize your headphone performance. You can easily enjoy high-quality and awesome sound.

Hi-Fi Resistor

Metal-oxide film resistors are made of metal oxides such as tin oxide. The electric characteristics are greater stability and reliability than regular metal film resistors when operating in an extremely broad working temperature range. This special component is used in applications with high endurance audio demands.



Hi-Fi Cap

BIOSTAR Hi-Fi series motherboards come with high quality 'Non-Polarized Electrolysis Electric audio capacitors' 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. The critical component will ensure the most realistic sound effects to gaming enthusiasts.

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-t--noise ratio (SNR) of 110dB, yielding almost lossless audio form rear audio connectors.

Video+

DVI

DVI is better than VGA for LCD displays since it is digital while VGA is analog. For LCD displays, the picture is digitized pixel per pixel. Through DVI, the panel gets data for each pixel, so the picture generated in the Graphics device matches the pixels on the panel itself.

DX12

DirectX 12 introduces the next version of Direct3D, the graphics API at the heart of DirectX. Direct3D is one of the most critical pieces of a game or game engine, and we've redesigned it to be faster and more efficient than ever before. Direct3D 12 enables richer scenes, more objects, and full utilization of modern GPU hardware.

Speed+



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.













Durable+





New generation SATA Express standard with speed

PCIe 3.0 is the ubiguitous and general-purpose PCI

up to 16Gb/s and meets SATA specifications.

Express I/O standard. At 8GT/s bit rate, the interconnect performance bandwidth is doubled over PCle 2.0, while preserving compatibility with

software and mechanical interfaces.

SATA Express 16Gb/s

PCle 3.0

The motherboard memory slots can be optioned of DDR3 or DDR4 by users.

Super Durable Ferrite Choke

Super Durable Ferrite Choke brings the benefits of higher current capacity, lower energy loss and better power stability.

Super Durable Solid Caps

The best quality solid state capacitors with ultra low ESR design, the Super Durable Solid Caps doubles the lifespan.

Moistureproof of PCB

The popularity of PC usage and working environment is getting deteriorating and moist (rural, coastal, etc.). The PCB will be oxidizing easily by damp or absorbed moisture, and ionic migration or CAF (Conductive Anodic Filament) will be generated. Moisture-proof PCB meets high density and high reliability requirements for moisture proof.





Low RdsOn P-Pak MOS





Low RdsOn P-Pak MOS

Low resistance design can significantly reduce the current out of energy loss. Low temperature, small size, excellent thermal conductivity.

Super Conductive Heatsink Design

Massive heatsink design provides super fast heat dissipation, high stability and reliability for extreme performance.

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+



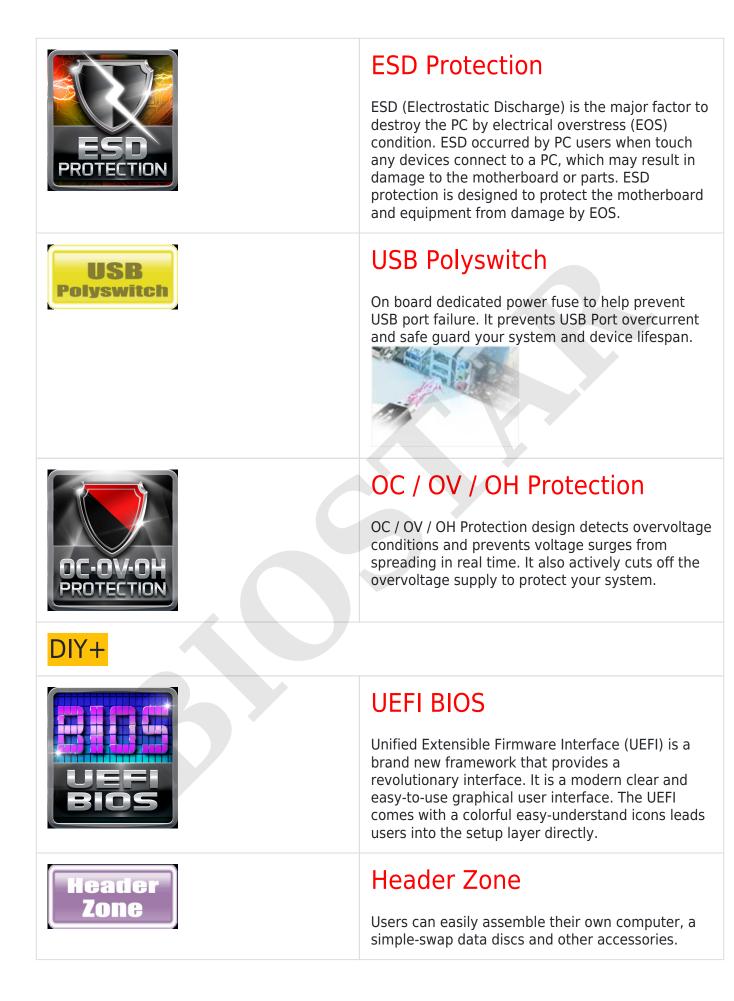
Super Anti-Surge Protection

BIOSTAR exclusive Anti-Surge design provides the best protection of board and extends the product life. Having the latest model of "Transient Voltage Suppressor" on- board can effectively protect the board circuit, reducing the shocks caused by ESD as well as other damages arising from overvoltage transients to enhance system durability.

Super LAN Surge Protection

Super LAN Surge Protection, providing LAN port with more advanced antistatic protection capabilities by adding an integrated chip to strengthen electrical stability and prevent damage from lightning strikes and electrical surges. SLSP (Super LAN Surge Protection) series motherboard upgrades the existing system protection standards with maximum 4X protection comparing to other board makers.







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.

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