# H110MHC Motherboard

- Support 7th Generation Intel® Core™ Processor
- Intel H110 single chip architecture
- Support 2-DIMM DDR4-2400/ 2133/ 1866 up to 32G maximum capacity
- Support USB 3.0
- Support HDMI® multimedia port
- Support GbE LAN

| Specifcation | |
|---|---|
| CPU SUPPORT | 7th & 6th Gen Intel® Core™ i7 LGA 1151 Processor<br>7th & 6th Gen Intel® Core™ i5 LGA 1151 Processor<br>7th & 6th Gen Intel® Core™ i3 LGA 1151 Processor<br>7th & 6th Gen Intel® Pentium® LGA 1151 Processor<br>7th & 6th Gen Intel® Celeron® LGA 1151 Processor<br>Maximum CPU TDP (Thermal Design Power) : 91Watt |
| MEMORY | Support Dual Channel DDR4 2400/ 2133/ 1866 MHz<br>2 x DDR4 DIMM Memory Slot<br>Max. Supports up to 32GB Memory<br>* DDR4 2400 for 7th Generation Intel® Core™ Processor Family |
| INTEGRATED VIDEO | By CPU model<br>Supports DX12<br>Supports HDCP |
| STORAGE | 4 x SATA III Connectors (6Gb/s) |
| LAN | Realtek RTL8111H - 10/100/1000Mb/s Controller |
| AUDIO CODEC | Realtek ALC887 8-Channel HD Audio |
| USB | 2 x USB 3.0 Port<br>1 x USB 3.0 Header<br>2 x USB 2.0 Port<br>2 x USB 2.0 Header |
| EXPANSION SLOT | 1 x PCI-E 3.0 x16 Slot<br>2 x PCI-E 2.0 x1 Slot |
| REAR I/O | 1 x PS/2 Mouse<br>1 x PS/2 Keyboard<br>2 x USB 3.0 Port<br>2 x USB 2.0 Port<br>1 x HDMI® Port<br>1 x VGA Port<br>1 x LAN Port<br>3 x Audio Jacks |

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| | |
|---|---|
| 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>1 x Front Audio Header<br>1 x Front Panel Header<br>1 x CPU Fan Connector<br>1 x System Fan Connector<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 | Micro ATX Form Factor Dimension: 22.6cm x 17.1cm ( W x L ) |
| OS SUPPORT | Supports Windows 10(x64) for Intel 7th Generation Processor<br>※Support Windows 7 / 8.1(x64) / 10(x64) for Intel 6th Generation Processor |
| BUNDLE SOFTWARE | BullGuard<br>Smart Speed LAN(Windows 7/ 8.1 only) |
| ACCESSORIES | 2 x SATA Cable<br>1 x I/O Shield<br>1 x DVD Driver<br>1 x Quick Guide |
| FEATURES | Supports 100% Solid capacitor<br>Supports Charger Booster<br>Supports BIOS Online Update |

# OVERVIEW

## Intel H110 chipset

The Intel® H110 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® H110 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.

## HD Audio

Provides high quality sound with minimal loss of audio fidelity.

## 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.

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## 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.

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

## ESD Protection

ESD (Electrostatic Discharge) is the major factor to destroy the PC by electrical overstress (EOS) condition. ESD occurred by PC users when touch any devices connect to a PC, which may result in damage to the motherboard or parts. ESD protection is designed to protect the motherboard and equipment from damage by EOS.

## USB Polyswitch

On board dedicated power fuse to help prevent USB port failure. It prevents USB Port overcurrent and safe guard your system and device lifespan.

## OC / OV / OH Protection

OC / OV / OH Protection design detects overvoltage conditions and prevents voltage surges from spreading in real time. It also actively cuts off the overvoltage supply to protect your system.

## Header Zone

Users can easily assemble their own computer, a simple-swap data discs and other accessories.

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

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