

# H310MHC Motherboard



- Supports 9th & 8th Generation Intel® Core™ Processor
- Intel H310 single chip architecture
- Support 2-DIMM DDR4-1866/ 2133/ 2400/ 2666 up to 32G maximum capacity
- Support USB 3.1 Gen1
- Support HDMI® display port
- Support GbE LAN

## Specification

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CPU SUPPORT      | 9th Gen Intel® Core™ i9 LGA 1151 Processor<br>9th Gen Intel® Core™ i7 LGA 1151 Processor<br>9th Gen Intel® Core™ i5 LGA 1151 Processor<br>9th Gen Intel® Core™ i3 LGA 1151 Processor<br>8th Gen Intel® Core™ i7 LGA 1151 Processor<br>8th Gen Intel® Core™ i5 LGA 1151 Processor<br>8th Gen Intel® Core™ i3 LGA 1151 Processor<br>8th Gen Intel® Pentium® LGA 1151 Processor<br>8th Gen Intel® Celeron® LGA 1151 Processor<br>Maximum CPU TDP (Thermal Design Power) : 95Watt |
| MEMORY           | Support Dual Channel DDR4 1866/2133/2400/2666 MHz<br>2 x DDR4 DIMM Memory Slot<br>Max. Supports up to 32GB Memory<br>Each DIMM supports non-ECC 4/8/16GB DDR4 module                                                                                                                                                                                                                                                                                                          |
| INTEGRATED VIDEO | By CPU model<br>Supports DX12<br>Supports HDCP                                                                                                                                                                                                                                                                                                                                                                                                                                |
| STORAGE          | 4 x SATA III Connectors                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| LAN              | Realtek RTL8111H - 10/100/1000Mb/s Controller                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| AUDIO CODEC      | Realtek ALC887 8-Channel HD Audio                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| USB              | 4 x USB 3.1 Gen1 Ports (2 on rear I/Os and 2 via internal header)<br>6 x USB 2.0 Port(2 on rear I/Os and 4 via internal 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 3.1 Gen1 Ports<br>2 x USB 2.0 Port<br>1 x HDMI® Connector, resolution up to 4096 x 2160 @20Hz<br>1 x VGA Port<br>1 x LAN Port<br>3 x Audio Jacks                                                                                                                                                                                        |
| INTERNAL I/O    | 1 x USB 3.1 Gen1 Header (each header support 2 USB 3.1 Gen1 ports)<br>2 x USB 2.0 Headers (each header support 2 USB 2.0 ports)<br>4 x SATA III Connectors (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 4-Pin Power Connector<br>1 x 24-Pin Power Connector<br>1 x Clear CMOS Header<br>1 x COM Port Header |
| H/W MONITORING  | CPU / System Temperature Monitoring<br>CPU / System Fan Monitoring<br>Smart / Manual CPU / System Fan Control<br>System Voltage Monitoring                                                                                                                                                                                                                                             |
| DIMENSION       | Micro ATX Form Factor Dimension: 22.6 cm x 17.1 cm ( W x L )                                                                                                                                                                                                                                                                                                                           |
| OS SUPPORT      | Supports Windows 10(64bit) / 11(64bit)<br>※Biostar reserves the right to add or remove support for any OS with or without notice.                                                                                                                                                                                                                                                      |
| BUNDLE SOFTWARE | BullGuard                                                                                                                                                                                                                                                                                                                                                                              |
| ACCESSORIES     | 2 x SATA Cable<br>1 x I/O Shield<br>1 x DVD Driver<br>1 x Quick Guide                                                                                                                                                                                                                                                                                                                  |

## OVERVIEW

|                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <b>Intel H310 chipset</b><br>The Intel® H310 chipset is a single-chipset design to support socket 1151 Intel® 8th generation Intel® Core™ processor-based platform. Provides excellent performance and increased bandwidth and stability. 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. |
|  | <b>HD Audio</b><br>Provides high quality sound with minimal loss of audio fidelity.                                                                                                                                                                                                                                                                                                                                                     |
|  | <b>DX12</b><br>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.                                                                              |

|                                                                                     |                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     | <h3>Integrated HDMI® with HDCP</h3> <p>Onboard HDMI® connector allows full video &amp; audio support. It has industry-leading high definition video quality.</p>                                                                                                                                                                                              |
|    | <h3>USB 3.1 Gen 1 Type-A</h3> <p>Experience Fastest data transfers at 5 Gbps with USB 3.1 Gen 1--the new latest connectivity standard. Built to connect easily with next-generation components and peripherals, USB 3.1 Gen 1 transfers data 10X faster and backward compatible with previous USB 2.0 components.</p>                                         |
|    | <h3>SATAIII 6Gbps</h3> <p>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.</p>                                                                                                                                  |
|    | <h3>Dual DDR4</h3> <p>The primary advantages of DDR4 over DDR3, include higher module density, lower voltage requirements, coupled with higher data transfer rate.</p>                                                                                                                                                                                        |
|   | <h3>ESD Protection</h3> <p>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.</p> |
|  | <h3>USB Polyswitch</h3> <p>On board dedicated power fuse to help prevent USB port failure. It prevents USB Port overcurrent and safe guard your system and device lifespan.</p>                                                                                                                                                                               |
|  | <h3>OC / OV / OH Protection</h3> <p>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.</p>                                                                                                                       |
|  | <h3>BIO-Flasher</h3> <p>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.</p>                                                                    |
|  | <h3>eHot-Line Utilitiy</h3> <p>Integrated e-service automatically sends your technical support request to Biostar Globe tech support without any delay.</p>                                                                                                                                                                                                   |
|  | <h3>HDMI®</h3> <p>The terms HDMI® and HDMI® High-Definition Multimedia Interface, and the HDMI® Logo are trademarks or registered trademarks of HDMI® Licensing Administrator, Inc. in the United States and other countries.</p>                                                                                                                             |

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



BIOSTAR  
BIOSTAR Microtech International Corp.

