

# H310MHP 2.0 Motherboard



- Supports 9<sup>th</sup> & 8<sup>th</sup> Generation Intel Core™ Processor
- Intel H310 single chip architecture
- Supports Dual Channel DDR4 2666/2400/2133/1866 MHz up to 32 GB Memory
- Supports HDMI® 4K resolution
- Supports GbE LAN
- Supports USB 3.2 Gen1

## Specification

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| CPU SUPPORT      | Socket 1151 for 9 <sup>th</sup> / 8 <sup>th</sup> Gen Intel Core, Pentium and Celeron processors<br>* 9 <sup>th</sup> / 8 <sup>th</sup> Generation Intel Core™ Processor Family only support 300-Series.<br>* Please refer to <a href="http://www.biostar.com.tw">www.biostar.com.tw</a> for CPU support list. |
| MEMORY           | Supports Dual Channel DDR4 2666/ 2400/ 2133/ 1866<br>2 x DDR4 DIMM Memory Slot, Max. Supports up to 32 GB Memory<br>Each DIMM supports non-ECC 4/8/16GB DDR4 module<br>* Please refer to <a href="http://www.biostar.com.tw">www.biostar.com.tw</a> for Memory support list.                                   |
| INTEGRATED VIDEO | By CPU model<br>Supports DX12<br>Supports HDCP                                                                                                                                                                                                                                                                 |
| STORAGE          | 4 x SATA III Connectors (6Gb/s)                                                                                                                                                                                                                                                                                |
| LAN              | Realtek LAN Chip<br>10/ 100/ 1000 Mb/s auto negotiation, Half / Full duplex capability                                                                                                                                                                                                                         |
| AUDIO CODEC      | ALC897<br>7.1 Channels, High Definition Audio<br>Support HD Audio                                                                                                                                                                                                                                              |
| USB              | 4 x USB 3.2(Gen1) ports (2 on rear I/Os and 2 via internal header)<br>6 x USB 2.0 ports (4 on rear I/Os and 2 via internal header)                                                                                                                                                                             |
| EXPANSION SLOT   | 2 x PCIe 2.0 x1 Slots<br>1 x PCIe 3.0 x16 Slot (x16 mode)                                                                                                                                                                                                                                                      |
| REAR I/O         | 1x PS/2 Mouse Port<br>1x PS/2 Keyboard Port<br>1 x HDMI® Port<br>1 x VGA Port<br>1 x LAN Port<br>4 x USB 2.0 Ports<br>2 x USB 3.2(Gen1) Ports<br>3 x Audio Jack                                                                                                                                                |

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| INTERNAL I/O    | 4 x SATA III Connectors (6Gb/s)<br>1 x USB 2.0 Header (each header supports 2 USB 2.0 ports)<br>1 x USB 3.2(Gen1) Header (each header supports 2 USB 3.2(Gen1) ports)<br>1 x 8-Pin Power Connector<br>1 x 24-Pin Power Connector<br>1 x CPU Fan Connector<br>1 x System Fan Connector<br>1 x Front Panel Header<br>1 x Front Audio Header<br>1 x Speaker Header<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 Fan Control<br>System Voltage Monitoring                                                                                                                                                                                                                                                                               |
| DIMENSION       | Micro ATX Form Factor Dimension: 226mm x 171mm ( 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                                                                                                                                                                                                                                                                                                                                           |
| FEATURES        | BIO-FLASHER                                                                                                                                                                                                                                                                                                                                                                                                     |

## OVERVIEW

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|  | <b>HD Audio</b><br>Provides high quality sound with minimal loss of audio fidelity.                                                                                                                                                                                                                                                                        |
|  | <b>HDMI® 4K2K</b><br>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.                               |
|  | <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. |
|  | <b>Integrated HDMI® with HDCP</b><br>Onboard HDMI® connector allows full video & audio support. It has industry-leading high definition video quality.                                                                                                                                                                                                     |

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|     | <h3>PCIe 3.0</h3> <p>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.</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>USB 3.2 Gen1 Type-A</h3> <p>USB 3.2 Gen1 delivers a compelling performance boosts and can be used to connect multiple devices without worrying about compatibility. It is capable of data transfer speeds up to 5Gbps and backwards compatible with all existing USB products.</p>                  |
|   | <h3>100% Solid Caps</h3> <p>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.</p>                                                                                             |
|  | <h3>UEFI BIOS</h3> <p>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.</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!**