

## A320MH 2.0 Motherboard



- Supports AMD Ryzen CPU / APU
- AMD A320 single chip architecture
- Supports 2-DIMM DDR4-2933/2667/2400/2133/1866 up to 32G maximum capacity
- Supports HDMI®
- Supports USB 3.2 Gen1

### Specification

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| CPU SUPPORT      | Socket AM4 supports AMD A-series APU, Ryzen APU / Ryzen CPU<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 1866/2133/2400/2667/2933<br>2 x DDR4 DIMM Memory Slot, Max. Supports up to 32 GB Memory<br>Each DIMM supports non-ECC 8/16 GB DDR4 module<br>* DDR4 - 2933 memory type only support for Ryzen 2 CPU.<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)<br>Supports AHCI & RAID 0, 1, 10                                                                                                                                                                                                                                                                         |
| LAN              | Realtek RTL 8111H<br>10/ 100/ 1000 Mb/s auto negotiation, Half / Full duplex capability                                                                                                                                                                                                                                                  |
| AUDIO CODEC      | ALC897<br>7.1 Channels, High Definition Audio                                                                                                                                                                                                                                                                                            |
| USB              | 4 x USB 3.2 (Gen1) ports (2 on rear I/Os and 2 via internal headers)<br>8 x USB 2.0 ports (4 on rear I/Os and 4 via internal headers)                                                                                                                                                                                                    |
| EXPANSION SLOT   | 2 x PCIe 2.0 x1 Slot<br>1 x PCIe 3.0 x16 Slot (The bandwidth is depended on CPU)                                                                                                                                                                                                                                                         |
| REAR I/O         | 1 x PS/2 Keyboard/ Mouse<br>1 x VGA Port<br>1 x HDMI® Port<br>1 x LAN port<br>2 x USB 3.2 (Gen1) Ports<br>4 x USB 2.0 Ports<br>3 x Audio Jack                                                                                                                                                                                            |

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| INTERNAL I/O    | 4 x SATA III 6.0Gb/s Connectors<br>2 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 4-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 Clear CMOS Header<br>1 x COM Serial 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: 17.4cm x 22.6cm ( W x L )                                                                                                                                                                                                                                                                                                                                    |
| OS SUPPORT      | Supports Windows 7(64bit) / 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        | Supports 100% Solid capacitor<br>BIO-FLASHER<br>Supports BIOS Online Update                                                                                                                                                                                                                                                                                                                   |

## OVERVIEW

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|  | <b>AMD A320 chipset</b><br>AMD's A320 chipset provides a simple, stable platform and more than enough connectivity and bandwidth options to satisfy both demanding home users and media aficionados.                                                                                                                                                       |
|  | <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. |

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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>Low RdsOn P-Pak MOS</h3> <p>Low resistance design can significantly reduce the current out of energy loss. Low temperature, small size, excellent thermal conductivity.</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>Moistureproof PCB</h3> <p>The PCB will be oxidizing easily by damp or absorbed moisture, and ionic migration or CAF (Conductive Anodic Filament) will be generated. Moistureproof PCB meets high density and high reliability requirements for moisture proof.</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>                                                                                                                       |

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|  | <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!



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