

# A320MH 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      | 支援 AMD AM4 插槽 for 3 <sup>rd</sup> , 2 <sup>nd</sup> and 1 <sup>st</sup> Gen Ryzen/2 <sup>nd</sup> and 1 <sup>st</sup> Gen Ryzen with Radeon Vega Graphics/Athlon with Radeon Vega Graphics/7 <sup>th</sup> Gen A-Series/Athlon X4 Processors<br>※ 請瀏覽映泰網站 <a href="http://www.biostar.com.tw">www.biostar.com.tw</a> 獲得CPU的支援列表 |
| MEMORY           | 支援雙通道 DDR4 2933/2667/2400/2133/1866 MHz<br>2 x DDR4 DIMM 插槽，支援最高容量為32GB<br>每根DIMM支援non-ECC 8/ 16 GB DDR4記憶體模組<br>※DDR4 - 2933 僅適用於 AMD Ryzen CPU<br>※DDR4 速度取決於CPU類型<br>※請瀏覽映泰網站 <a href="http://www.biostar.com.tw">www.biostar.com.tw</a> 獲得記憶體的支援列表  |
| INTEGRATED VIDEO | By CPU model<br>Supports DX12<br>Supports HDCP  |
| STORAGE          | 4 x SATA III 接頭(6Gb/s)<br>支援 SATA RAID: 0,1,10  |
| LAN              | Realtek RTL 8111H<br>10/ 100/ 1000 Mb/s 半/全雙功能，自動協商模式   |
| AUDIO CODEC      | Realtek ALC887<br>7.1 聲道，支援高解析音效輸出  |
| USB              | 4 x USB 3.2 Gen1 連接埠(後側面板2個連接埠，內建接頭支援2個連接埠)<br>8 x USB 2.0 連接埠(後側面板4個連接埠，內建接頭支援4個連接埠)   |
| EXPANSION SLOT   | 2 x PCIe 2.0 x1 插槽<br>1 x PCIe 3.0 x16 插槽(當使用APU時，頻寬為 x 8)  |
| REAR I/O         | 1 x PS/2 鍵盤/ 滑鼠連接埠<br>1 x VGA 連接埠<br>1 x HDMI® 連接埠<br>1 x LAN 連接埠<br>2 x USB 3.2 Gen1 (5Gb/s) 連接埠<br>4 x USB 2.0 連接埠<br>3 x 音效連接埠   |

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| INTERNAL I/O    | 4 x SATA III 6Gb/s 接頭<br>2 x USB 2.0 連接埠(每個接頭支援2個USB2.0連接埠)<br>1 x USB 3.2 Gen1 (5Gb/s) 連接埠(每個接頭支援2個USB3.2(Gen1)連接埠)<br>1 x 電源插槽(4-Pin)<br>1 x 電源插槽(24-Pin)<br>1 x CPU 風扇接頭<br>1 x 系統風扇接頭<br>1 x 前置面板接頭<br>1 x 前置音效接頭<br>1 x 序列埠接頭<br>1 x 清除CMOS組態資料接頭 |
| 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 17.4cm ( W x L )   |
| OS SUPPORT      | Supports Windows 7(64bit) for Bristol / Summit /Pinnacle Ridge only<br>Supports Windows 10(64bit) / 11(64bit)<br>※如有增加或減少任何OS支援，Biostar保留不預先通知的權利。   |
| BUNDLE SOFTWARE | BullGuard<br>Smart Speed LAN(Windows 7 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>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>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>Moistureproof of PCB</h3> <p>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.</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>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>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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