



	<h2>A320MH PRO 6.x</h2> <ul style="list-style-type: none"> <li>• Support AMD Ryzen CPU / APU</li> <li>• AMD A320 single chip architecture</li> <li>• Support 2-DIMM DDR4-2667/ 2400 up to 32G maximum capacity</li> <li>• Support HDMI</li> <li>• Support USB 3.1 Gen1</li> </ul>
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Chipset	<ul style="list-style-type: none"><li>• AMD A320</li></ul>															
CPU SUPPORT	<ul style="list-style-type: none"><li>• AMD A-series APU / Ryzen CPU / NPU for Socket AM4</li></ul>															
MEMORY	<ul style="list-style-type: none"><li>• Support Dual Channel DDR4 2667/ 2400/ 2133/ 1866 MHz</li><li>• Support Non-ECC &amp; ECC Un-buffered DIMM Memory modules</li><li>• 2 x DDR4 DIMM Memory Slot</li><li>• Max. Supports up to 32GB Memory</li><li>• * DDR4 2667 for AMD Ryzen CPU</li><li>• Ryzen - DDR Maximum Frequency Support Table(For better DDR4 compatibility, it is recommended to follow the table below to install DDR4 modules. Please refer to memory support list for more details.)<table border="1"><tr><td>Maximum</td><td>DIMMA1</td><td>DIMMB1</td></tr><tr><td>DDR4-2667</td><td>SR</td><td>-</td></tr><tr><td>DDR4-2667</td><td>DR</td><td>-</td></tr><tr><td>DDR4-2667</td><td>SR</td><td>SR</td></tr><tr><td>DDR4-2400</td><td>DR</td><td>DR</td></tr></table>SR:Single-rank DIMM, 1R x4 or 1R x8 DR: Dual-rank DIMMs, 2R x4 or 2R x8</li></ul>	Maximum	DIMMA1	DIMMB1	DDR4-2667	SR	-	DDR4-2667	DR	-	DDR4-2667	SR	SR	DDR4-2400	DR	DR
Maximum	DIMMA1	DIMMB1														
DDR4-2667	SR	-														
DDR4-2667	DR	-														
DDR4-2667	SR	SR														
DDR4-2400	DR	DR														
INTEGRATED VIDEO	<ul style="list-style-type: none"><li>• By CPU model</li><li>• Supports DX12</li><li>• Supports HDCP</li></ul>															
STORAGE	<ul style="list-style-type: none"><li>• 4 x SATA3 Connector</li><li>• Support SATA RAID: 0,1,10</li></ul>															
LAN	<ul style="list-style-type: none"><li>• Realtek RTL8111H - 10/100/1000Mb/s Controller</li></ul>															

	<ul style="list-style-type: none"> <li>• Support Super LAN Surge Protection</li> </ul>
CODEC	<ul style="list-style-type: none"> <li>• Realtek ALC887 8-Channel HD Audio</li> </ul>
USB	<ul style="list-style-type: none"> <li>• 2 x USB 3.1 Gen1 Port</li> <li>• 1 x USB 3.1 Gen1 Header</li> <li>• 2 x USB 2.0 Port</li> <li>• 2 x USB 2.0 Header</li> </ul>
EXPANSION SLOT	<ul style="list-style-type: none"> <li>• 1 x PCI-E 3.0 x16 Slot(x16 for Ryzen CPU only, NPU/APU run at x8 speed)</li> <li>• 2 x PCI-E 3.0 x1 Slot</li> </ul>
REAR I/O	<ul style="list-style-type: none"> <li>• 1 x PS/2 Mouse</li> <li>• 1 x PS/2 Keyboard</li> <li>• 2 x USB 3.1 Gen1 Port</li> <li>• 2 x USB 2.0 Port</li> <li>• 1 x HDMI Connector, resolution up to 4096 x 2160 @24Hz or 3840 x 2160 @30Hz</li> <li>• 1 x VGA Port, resolution up to 1920 x 1200 @60Hz</li> <li>• 1 x LAN port</li> <li>• 3 x Audio Jacks</li> </ul>
INTERNAL I/O	<ul style="list-style-type: none"> <li>• 1 x USB 3.1 Gen1 Header</li> <li>• 2 x USB 2.0 Header</li> <li>• 4 x SATA3 6Gb/s Connector</li> <li>• 1 x Front Audio Header</li> <li>• 1 x Front Panel Header</li> <li>• 1 x CPU Fan Connector</li> <li>• 1 x System Fan Connector</li> <li>• 1 x COM Port Header</li> </ul>
H/W MONITORING	<ul style="list-style-type: none"> <li>• CPU / System Temperature Monitoring</li> <li>• CPU / System Fan Monitoring</li> <li>• Smart / Manual CPU Fan Control</li> </ul>

	<ul style="list-style-type: none"> <li>• System Voltage Monitoring</li> </ul>
DIMENSION	<ul style="list-style-type: none"> <li>• Micro ATX Form Factor Dimension: 22.6cm x 18.4cm ( W x L )</li> </ul>
OS SUPPORT	<ul style="list-style-type: none"> <li>• Support Windows 10(x64)&lt;br&gt;Support Windows 7 (x64) for Bristol / Summit /Pinnacle Ridge only</li> <li>• ※Biostar reserves the right to add or remove support for any OS with or without notice.</li> </ul>
BUNDLE SOFTWARE	<ul style="list-style-type: none"> <li>• BullGuard</li> <li>• Smart Speed LAN(Windows 7 only)</li> </ul>
ACCESSORIES	<ul style="list-style-type: none"> <li>• 2 x SATA Cable</li> <li>• 1 x I/O Shield</li> <li>• 1 x DVD Driver</li> <li>• 1 x Quick Guide</li> </ul>
FEATURES	<ul style="list-style-type: none"> <li>• Supports 100% Solid capacitor</li> <li>• Supports BIOS-Flasher</li> <li>• Supports BIOS Online Update</li> </ul>

## Audio+

<b>HD Audio</b>  Provides high quality sound with minimal loss of audio fidelity.	
<b>AudioArt Capacitors</b>  PRO series comes with Nichicon high-end audio capacitors. Nichicon Capacitors offer artistic-like sound resolution and Hi-Fi audio amplification effect, making your room a live concert.	

## Video+

### 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.



## Speed+

### 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.



### PCI-E Gen 3.0

PCI-E 3.0 is the next evolution of the ubiquitous and general-purpose PCI Express I/O standard. At 8GT/s bit rate, the interconnect performance bandwidth is doubled over PCI-E 2.0, while preserving compatibility with software and mechanical interfaces.





## Durable+




### Moistureproof 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.




<b>Low RdsOn P-Pak MOS</b>  Low resistance design can significantly reduce the current out of energy loss. Low temperature, small size, excellent thermal conductivity.	
<b>Tough Power Enhanced</b>  To ensure the longevity of motherboard, PRO series with Tough Power Enhanced can endure massive electric current and ensure full energy output without additional energy loss, just like a super man protecting your PC system.	

## Protection+


<b>Super Anti-Surge Protection</b>  BIOSTAR exclusive Anti-Surge design provides the best protection of board and extends the product life. Having the latest model of "Transient Voltage Suppressor" on- board can effectively protect the board circuit, reducing the shocks caused by ESD as well as other damages arising from overvoltage transients to enhance system durability.	
<b>Super LAN Surge Protection</b>  Super LAN Surge Protection, providing LAN port with more advanced antistatic protection capabilities by adding an integrated chip to strengthen electrical stability and prevent damage from lightning strikes and electrical surges. SLSP (Super LAN Surge Protection) series motherboard upgrades the existing system protection standards with maximum 4X protection comparing to other board makers.	
<b>Nano Carbon Coating Heatsink</b>  Nano carbon coating heatsink enlarges the heat dissipation area to increase heat conductivity efficiently, compared to the aluminum-extruded heatsink.	

<b>ESD Protection</b>  ESD (Electrostatic Discharge) is the major factor to destroy PC by electrical overstress(EOS) condition, ESD occurred by PC users when touch any devices connect to PC, which may result in damage to motherboard or parts .ESD protection is designed to protect the motherboard and equipment from damage by EOS	
<b>USB Polyswitch</b>  On board dedicated power fuse to help prevent USB port failure. It prevents USB Port overcurrent and safegurand your system and device lifespan.	
<b>OC / OV / OH Protection</b>  All BIOSTAR special circuit 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. Over current protection, avoid motherboard from damage when doing overclock or an unusual current import. Over heat protection, avoid motherboard & CPU from burning when exceeding the temperature limitation.	

## DIY+

<b>Header Zone</b>  Users can easily assemble their own computer, a simple-swap data discs and other accessories.	
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## CPU-Chipset Features

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