

# H110MD PRO D4 Motherboard



- Supports 6th Generation Intel® Core™ Processor
- Intel H110 single chip architecture
- Support 2-DIMM DDR4-2133/ 1866 up to 32G maximum capacity
- Support USB 3.0
- Support DVI display port
- Support GbE LAN

## Specification

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| CPU SUPPORT      | 7th & 6th Gen Intel® Core™ i7 LGA 1151 Processor<br>7th & 6th Gen Intel® Core™ i5 LGA 1151 Processor<br>7th & 6th Gen Intel® Core™ i3 LGA 1151 Processor<br>7th & 6th Gen Intel® Pentium® LGA 1151 Processor<br>7th & 6th Gen Intel® Celeron® LGA 1151 Processor<br>Maximum CPU TDP (Thermal Design Power) : 91Watt |
| MEMORY           | Support Dual Channel DDR4 2133/ 1866 MHz<br>2 x DDR4 DIMM Memory Slot<br>Max. Supports up to 32GB Memory                                                                                                                                                                                                            |
| INTEGRATED VIDEO | By CPU model<br>Supports DX12<br>Supports HDCP                                                                                                                                                                                                                                                                      |
| STORAGE          | 4 x SATA III Connector                                                                                                                                                                                                                                                                                              |
| LAN              | Realtek RTL8111H - 10/100/1000Mb/s Controller<br>Support Super LAN Surge Protection                                                                                                                                                                                                                                 |
| AUDIO CODEC      | Realtek ALC887 8-Channel HD Audio                                                                                                                                                                                                                                                                                   |
| USB              | 2 x USB 3.0 Port<br>1 x USB 3.0 Header<br>2 x USB 2.0 Port<br>2 x USB 2.0 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 3.0 Port<br>2 x USB 2.0 Port<br>1 x DVI-D Connector, resolution up to 1920 x 1200 @60Hz<br>1 x VGA Port, resolution up to 1920 x 1200 @60Hz<br>1 x LAN Port<br>3 x Audio Jacks                                                                                       |

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| INTERNAL I/O    | 1 x USB 3.0 Header<br>2 x USB 2.0 Header<br>4 x SATA III Connector (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 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: 22.6cm x 17.4cm ( W x L )                                                                                                                                                 |
| OS SUPPORT      | Supports Windows 7 / 8.1(x64) / 10(x64)                                                                                                                                                                    |
| BUNDLE SOFTWARE | BullGuard<br>BIO-Remote2<br>Smart Speed LAN                                                                                                                                                                |
| 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>Supports Charger Booster<br>Supports BIOS Online Update                                                                                                                   |

## OVERVIEW

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|  | <b>Intel H110 chipset</b><br>The Intel® H110 chipset is a single-chipset design to support socket 1151 Intel® 6th generation Intel® Core™ processor-based platform. Provides excellent performance and increased bandwidth and stability. Intel® H110 chipset can also enable iGPU function, letting users enjoy the latest Intel® integrated graphic performance. 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>Intel LGA 1151 6th Generation Intel Core™ Processor support</b><br>The 6th generation Intel® Core™ processors are based on 5th generation Intel® Core™ processor architecture, with the latest 14nm process to maximize the processor platform. Based on the new LGA 1151 socket, 5th generation Intel® Core™ processors with graphics with DX12 & OCL2.0 cores , the overall performance will meet your demand.                                                                                                                                              |
|  | <b>HD Audio</b><br>Provides high quality sound with minimal loss of audio fidelity.                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

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|     | <h3>AudioArt Capacitors</h3> <p>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.</p>                                                                                                                                                                                                                       |
|    | <h3>DX12</h3> <p>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.</p>                                                                                    |
|    | <h3>USB 3.0</h3> <p>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.</p>                                                                                                                                                        |
|    | <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>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>Tough Power Enhanced</h3> <p>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.</p>                                                                                                                                                                                |
|  | <h3>Super Anti-Surge Protection</h3> <p>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.</p>                                                     |
|  | <h3>Super LAN Surge Protection</h3> <p>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.</p> |

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|   | <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>Header Zone</h3> <p>Users can easily assemble their own computer, a simple-swap data discs and other accessories.</p>                                                                                                                                                                                                                                                                                        |
|  | <h3>BIO-Remote 2</h3> <p>BIO-Remote2 Technology is featuring users a better Home Theater environment. Users who own either Android mobile or Apple goods are able to access and control your PC remotely; At this moment, you're smart device became a intelligent and functional remote controller; more than that, BIO-Remote2 also includes both function of mouse pad and power point presentation mode.</p> |

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