# H81MDS2 PRO Motherboard

- Support the Intel 4th generation Core i7 and Core i5 processors in the 1150 package
- Intel H81 single chip architecture
- Support 2-DIMM DDR3-1600/1333 up to 16G maximum capacity
- Support USB 3.0
- Intel Rapid Start Technology
- Intel Smart Connect Technology
- Support DVI display port
- Support GbE LAN

| Specifcation | |
|---|---|
| CPU SUPPORT | Intel® Core™ i7 LGA 1150 Processor<br>Intel® Core™ i5 LGA 1150 Processor<br>Intel® Core™ i3 LGA 1150 Processor<br>Intel® Pentium® LGA 1150 Processor<br>Maximum CPU TDP (Thermal Design Power) : 95Watt |
| MEMORY | Support Dual Channel DDR3 1600/1333/1066 MHz<br>2 x DDR3 DIMM Memory Slot<br>Max. Supports up to 16GB Memory |
| INTEGRATED VIDEO | By CPU model<br>Supports DX12 |
| STORAGE | 2 x SATA III Connector<br>2 x SATA II Connector |
| LAN | Realtek RTL8111G - 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>2 x USB 2.0 Port<br>2 x USB 2.0 Header |
| EXPANSION SLOT | 1 x PCI-E 2.0 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 Printer Port<br>1 x DVI Connector<br>1 x VGA Port<br>1 x LAN Port<br>3 x Audio Jacks |

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| INTERNAL I/O | 2 x USB 2.0 Header<br>2 x SATA III Connector (6Gb/s)<br>2 x SATA II Connector (3Gb/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 17cm ( W x L ) |
| OS SUPPORT | Supports Windows 7 / 8 / 8.1 / 10(x64) |
| BUNDLE SOFTWARE | BullGuard<br>BIO-Remote2<br>Smart Speed LAN<br>Intel Rapid Start Technology<br>Intel Smart Connect Technology |
| 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

## Intel H81 chipset

The latest Intel H81 Express chipset is a single-chipset design that supports socket LGA1150 4th generation Intel® Core™ i7/i5/i3/Pentium/Celeron processors. It natively supports up to two USB 3.0 ports for up to 10 times faster transfer rates than previous USB 2.0. Intel H81 Express chipset also supported iGPU such as Intel processors with DX11 graphics allow you enjoy the higher frame rate in Gaming experience.

## Intel LGA 1150 4th Generation Intel Core™ Processor support

The 4th generation Intel® Core™ processors are based on 4th generation Intel® Core™ processor architecture, with the latest 22nm process to maximize the processor platform. Based on the new LGA 1150 socket, 4th generation Intel® Core™ processors with graphics with DX11.1 & OCL1.2 cores , the overall performance will meet your demand.

## AudioArt Capacitors

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.

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## 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.

## SmartSpeedLAN

SmartSpeedLAN is a free software application which monitors and manages your PC's network behavior. With user-friendly GUI, it allows you to select and prioritize different types of network traffic, including gaming, media streaming, communications or web surfing.You can also set any specific applications, choosing to prioritize or block accordingly. SmartSpeedLAN can feature automatic management options that use adaptive networking intelligence to ensure that you are getting the best online experience possible.

## 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.

## Tough Power Enhanced

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.

## ESD Protection

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.

## OC / OV / OH Protection

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.

## Header Zone

Users can easily assemble their own computer, a simple-swap data discs and other accessories.

## BIO-Remote 2

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.

*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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