

## B250MDC Motherboard



- Supports 7th Generation Intel® Core™ Processor
- Intel B250 single chip architecture
- Support 2-DIMM DDR4-1866/ 2133/ 2400 up to 32G maximum capacity
- Support 7.1ch HD Audio
- Support DVI-D

### Specification

|                  |  |
|------------------|--|
| CPU SUPPORT      | Socket 1151 for Intel® Core i7 / i5 / i3 / Pentium / Celeron processor<br>Maximum CPU TDP (Thermal Design Power): 91Watt<br>* Please refer to <a href="http://www.biostar.com.tw">www.biostar.com.tw</a> for CPU support list. |
| MEMORY           | Support Dual Channel DDR4 1866/ 2133/ 2400 MHz<br>2 x DDR4 DIMM Memory Slot  |
| 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  |
| AUDIO CODEC      | Realtek ALC887 8-Channel HD Audio<br>Support HD Audio  |
| USB              | 6 x USB 3.0 port (4 on rear I/Os and 2 via internal header)<br>6 x USB 2.0 port (2 on rear I/Os and 4 via internal header)   |
| EXPANSION SLOT   | 1 x PCI-E 3.0 x16 Slot<br>2 x PCI-E 3.0 x1 Slot  |
| REAR I/O         | 1 x PS/2 Mouse<br>1 x PS/2 Keyboard<br>4 x USB 3.0 Port<br>2 x USB 2.0 Port<br>1 x DVI-D Connector<br>1 x VGA Port<br>1 x LAN Port   |
| INTERNAL I/O     | 1 x USB 2.0 Header<br>1 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   |

|                 |   |
|-----------------|---|
| H/W MONITORING  | CPU / System Temperature Monitoring<br>CPU / System Fan Monitoring<br>Smart / Manual CPU Fan Control<br>System Voltage Monitoring                             |
| OS SUPPORT      | Supports Windows 10(x64) / 11(x64) for Intel 7th Generation Processor<br>*Support Windows 7 / 8.1(x64) / 10(x64) / 11(x64) for Intel 6th Generation Processor |
| BUNDLE SOFTWARE | Smart Speed LAN(Wubdiws 7/8.1 only)   |
| ACCESSORIES     | 1 x SATA Cable<br>1 x I/O Shield<br>1 x DVD Driver<br>1 x User Manual   |
| FEATURES        | BIO-FLASHER   |

## OVERVIEW



### Intel B250 chipset

Give your small business a boost with the Intel® B250 Chipset and the 7th Generation Intel® Core™ processor. The Intel B250 chipset provides you with the power and performance you need for your small business.



### HD Audio

Provides high quality sound with minimal loss of audio fidelity.



### DVI

DVI is better than VGA for LCD displays since it is digital while VGA is analog. For LCD displays, the picture is digitized pixel per pixel. Through DVI, the panel gets data for each pixel, so the picture generated in the Graphics device matches the pixels on the panel itself.



### 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.

|  |   |
|--|---|
|    | <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>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>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>   |

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