B250MHC Motherboard

- Supports 6th / 7th Generation Intel Core™ Processor
- Intel B250 single chip architecture
- Supports 2-DIMM DDR4-1866/ 2133/ 2400 up to 32G maximum capacity
- Supports HD Audio
- Supports HDMI®

Specifcation	
CPU SUPPORT	Support for 6th/ 7th Generation Intel Core i7/ i5/ i3 processors and Intel Pentium processors/ Intel Celeron processors in the LGA1511 package * Please refer to www.biostar.com.tw for CPU support list.
MEMORY	Supports Dual Channel DDR4 1866/2133/2400 2 x DDR4 DIMM Memory Slot, Max. Supports up to 32 GB Memory Each DIMM supports non-ECC 4/8/16GB DDR4 module * DDR4-2400 for 7th Generation Intel Core™ Processor Family. * Please refer to www.biostar.com.tw for Memory support list.
INTEGRATED VIDEO	By CPU model Supports DX12 Supports HDCP
STORAGE	4 x SATA III Connectors (6Gb/s) : Supports AHCI
LAN	RTL8111H 10/ 100/ 1000 Mb/s auto negotiation, Half / Full duplex capability Supports Super LAN Surge Protection
AUDIO CODEC	ALC887 7.1 Channels, High Definition Audio
USB	6 x USB 3.2 (Gen1) ports (4 on rear I/Os and 2 via internal header) 6 x USB 2.0 ports (2 on rear I/Os and 4 via internal header)
EXPANSION SLOT	2 x PCIe 3.0 x 1 Slot 1 x PCIe 3.0 x 16 Slot
REAR I/O	1 x PS/2 Mouse Port 1 x PS/2 Keyboard Port 1 x VGA Port 1 x HDMI® Port 1 x LAN Port 2 x USB 2.0 Ports 4 x USB 3.2 (Gen1) Ports 3 x Audio Jack

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INTERNAL I/O	4 x SATA III Connectors (6Gb/s) 2 x USB 2.0 Headers (each header supports 2 USB 2.0 ports) 1 x USB 3.2(Gen1) Header (each header supports 2 USB 3.2(Gen1) ports) 1 x 4-Pin Power Connector 1 x 24-Pin Power Connector 1 x CPU Fan Connector 1 x System Fan Connector 1 x Front Panel Header 1 x Front Audio Header 1 x Clear CMOS Header 1 x COM Port Header
H/W MONITORING	CPU / System Temperature Monitoring CPU / System Fan Monitoring Smart / Manual CPU Fan Control CPU/DDR Voltage Monitoring
DIMENSION	Micro ATX Form Factor Dimension: 22.6cm x 17.1cm (W x L)
OS SUPPORT	Supports Windows 7 (32/64bit) / 8.1(64bit) /10(64bit) / 11(64bit) ※Windows 7 (32/64bit) / 8.1(64bit) for 6th Generation Intel Core™ Processor Family only. ※Biostar reserves the right to add or remove support for any OS with or without notice.
BUNDLE SOFTWARE	BullGuard Smart Speed LAN
ACCESSORIES	2 x SATA Cable 1 x I/O Shield 1 x DVD Driver 1 x Quick Guide
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.

HDMI® 4K2K

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.

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.

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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.

PCIe 3.0

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.

SATAIII 6Gbps

SATAIII 6Gbps provides a higher bandwidth to retrieve and transfer HD media. With this super speed data transfer, SATAIII allows an incredible data boost which is 2x faster than the SATA II.

Dual DDR4

The primary advantages of DDR4 over DDR3, include higher module density, lower voltage requirements, coupled with higher data transfer rate.

USB 3.2 Gen1 Type-A

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.

Super LAN Surge Protection

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.

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.

USB Polyswitch

On board dedicated power fuse to help prevent USB port failure. It prevents USB Port overcurrent and safe guard your system and device lifespan.

PROTOTYPE
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HDMI®

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*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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