

## A68MHE Motherboard



- Support AMD Socket FM2+ Athlon™/A- Series Processors
- AMD AMD A68H Chipset
- Support 2-DIMM DDR3-2600(OC) up to 32G maximum capacity
- Support USB 3.2
- Support HDMI
- Support GbE LAN
- AMD Dual Graphics Technology

## A68MHE Specifcation

|                  |  |
|------------------|--|
| CPU SUPPORT      | <p>AMD FM2+ A-series APU<br/>           Maximum CPU TDP (Thermal Design Power) :<br/>           100Watt<br/>           ※ Please refer to <a href="http://www.biostar.com.tw">www.biostar.com.tw</a> for CPU support list.</p>  |
| MEMORY           | <p>Support Dual Channel DDR3 800/ 1066/ 1333/ 1600/ 1866/ 2133/ 2400(OC)/ 2600(OC) MHz<br/>           2 x DDR3 DIMM Memory Slot<br/>           Max. Supports up to 32GB Memory<br/>           ※Please refer to <a href="http://www.biostar.com.tw">www.biostar.com.tw</a> for Memory support list.</p> |
| INTEGRATED VIDEO | <p>By CPU model<br/>           Supports DX12<br/>           Supports HDCP<br/>           AMD Dual Graphics Technology</p>  |
| STORAGE          | <p>4 x SATA III Connectors (6Gb/s) : Supports AHCI &amp; RAID 0, 1, 10</p>   |
| LAN              | <p>Realtek RTL8111H - 10/100/1000Mb/s Controller</p>   |
| AUDIO CODEC      | <p>Realtek ALC662 6-Channel HD Audio</p>   |

|                 |   |
|-----------------|---|
| USB             | 2 x USB 3.2 Gen1 Port (5Gb/s) (2 on rear I/Os)<br>6 x USB 2.0 Port(2 on rear I/Os and 4 via internal headers)   |
| EXPANSION SLOT  | 1 x PCI-E 3.0 x16 Slot<br>1 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 3.2 Gen1 (5Gb/s) Port<br>2 x USB 2.0 Port<br>1 x HDMI Connector<br>1 x VGA Port<br>1 x LAN Port<br>3 x Audio Jacks   |
| INTERNAL I/O    | 2 x USB 2.0 Header(each header supports 2 USB 2.0 ports)<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 4-Pin Power Connector<br>1 x 24-Pin Power Connector<br>1 x Clear CMOS Header |
| H/W MONITORING  | CPU / System Temperature Monitoring<br>CPU / System Fan Monitoring<br>Smart / Manual CPU Fan Control<br>CPU/DDR Voltage Monitoring  |
| DIMENSION       | Micro ATX Form Factor Dimension: 21.5 cm x 17 cm ( W x L )  |
| OS SUPPORT      | Supports Windows XP/ 7/ 8/ 8.1(64bit)/ 10(64bit)<br>*Biostar reserves the right to add or remove support for any OS with or without notice.   |
| BUNDLE SOFTWARE | BullGuard   |
| ACCESSORIES     | 2 x SATA Cable<br>1 x I/O Shield<br>1 x DVD Driver<br>1 x Quick Guide   |

## A68MHE OVERVIEW

### CPU-Chipset



## AMD A68H chipset

AMD® A68H chipset is designed to support up to 5GT/s interface speed and PCI Express™ 3.0/2.0 graphics. It natively supports SATA 6Gb/s ports and USB 3.0 Ports.

### Video+



## 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.

### Speed+



## PCIe Gen 3.0

PCIe 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 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 3G.



## Dual DDR3-2600+

It supports 2 or 4 DIMM Slots DDR3 memory that features data transfer rates of DDR3 2600(O.C). The processor support 2 memory channels and setting the memory multiplier, allows selection of the channel speed. These clearly uplift the band width and boost the overall system performance.



## 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.

## Durable+



## Moistureproof of 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.



## 100% Solid Caps

With armor-plated Biostar Technology, all capacitors are placed with 100% solid capacitors that have a lasting life cycle, durability and stability for crucial components.

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