

# A58ML Motherboard



- Supported Socket FM2+/FM2 processors AMD Aseries/ E2-series processor
- Supported AMD Mutil Core(x4,x2)
- AMD 100W processor support
- AMD A55 Chipset
- 2 DIMM supported DDR3-2600(OC0/ 2400(OC)/ 2133/ 1866/ 1600/ 1333/ 1066/ 800
- AMD Dual Graphics Technology

# A58ML Specifcation

CPU SUPPORT	AMD A10 Processor AMD A8 Processor AMD A6 Processor AMD A4 Processor AMD E2 Processor AMD Athlon™ II X4 Processor Maximum CPU TDP (Thermal Design Power): 100Watt
MEMORY	Support Dual Channel DDR3 2600(OC)/2400(OC)/2133/1866/1600/1333/1066/800 MHz 2 x DDR3 DIMM Memory Slot Max. Supports up to 32GB Memory
INTEGRATED VIDEO	By CPU model AMD Dual Graphics Technology Supports DX11.1
STORAGE	4 x SATA II Connector Support SATA RAID: 0,1,10
LAN	Realtek RTL8106E - 10/100 Controller
AUDIO CODEC	Realtek ALC662 6-Channel HD Audio
USB	4 x USB 2.0 Port 2 x USB 2.0 Header

EXPANSION SLOT  1 x PCI-E 3.0 x16 Slot(supported by FM2+ CPU) 1 x PCI-E 2.0 x1 Slot  1 x PS/2 Mouse 1 x PS/2 Keyboard 4 x USB 2.0 Port 1 x VGA Port 1 x LAN Port 3 x Audio Jacks  INTERNAL I/O  2 x USB 2.0 Header 4 x SATA II Connector (3Gb/s) 1 x Front Audio Header 1 x Front Panel Header 1 x Front Panel Header 1 x CPU Fan Connector 1 x System Fan Connector 1 x System Fan Connector 1 x System Fan Control System Voltage Monitoring CPU / System Tem Monitoring CPU / System Tem Monitoring Smart / Manual CPU Fan Control System Voltage Monitoring  DIMENSION  Micro ATX Form Factor Dimension: 21.8cm x 17.4cm (W x L)  OS SUPPORT  Supports Windows XP / 7 / 8 / 10(x64)  BUNDLE SOFTWARE  BIO-Remote2 Smart Speed LAN  ACCESSORIES  2 x SATA Cable 1 x I/O Shield 1 x DVD Driver 1 x Quick Guide  FEATURES  Windows 8 Ready Supports Solid capacitor BIO-FLASHER Supports Charger Booster Supports BIOS Online Update		
1 x PS/2 Keyboard 4 x USB 2.0 Port 1 x VGA Port 1 x VGA Port 1 x LAN Port 3 x Audio Jacks  INTERNAL I/O  2 x USB 2.0 Header 4 x SATA II Connector (3Gb/s) 1 x Front Audio Header 1 x Front Panel Header 1 x Front Panel Header 1 x CPU Fan Connector 1 x System Fan Connector 1 x COM Port Header  H/W MONITORING  CPU / System Temperature Monitoring CPU / System Fan Monitoring Smart / Manual CPU Fan Control System Voltage Monitoring  DIMENSION  Micro ATX Form Factor Dimension: 21.8cm x 17.4cm (W x L)  OS SUPPORT  Supports Windows XP / 7 / 8 / 10(x64)  BUNDLE SOFTWARE  BIO-Remote2 Smart Speed LAN  ACCESSORIES  2 x SATA Cable 1 x I/O Shield 1 x DVD Driver 1 x Quick Guide  FEATURES  Windows 8 Ready Supports Charger Booster	EXPANSION SLOT	
## A SATA II Connector (3Gb/s)  1 x Front Audio Header  1 x Front Panel Header  1 x CPU Fan Connector  1 x System Fan Connector  1 x COM Port Header  H/W MONITORING  CPU / System Temperature Monitoring  CPU / System Fan Monitoring  Smart / Manual CPU Fan Control  System Voltage Monitoring  DIMENSION  Micro ATX Form Factor Dimension: 21.8cm x 17.4cm  (W x L)  OS SUPPORT  Supports Windows XP / 7 / 8 / 10(x64)  BUNDLE SOFTWARE  BIO-Remote2  Smart Speed LAN  ACCESSORIES  2 x SATA Cable  1 x //O Shield  1 x DVD Driver  1 x Quick Guide  FEATURES  Windows 8 Ready  Supports Charger Booster	REAR I/O	1 x PS/2 Keyboard 4 x USB 2.0 Port 1 x VGA Port 1 x LAN Port
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	FEATURES	Supports Solid capacitor BIO-FLASHER Supports Charger Booster

# A58ML OVERVIEW

# **CPU-Chipset**



# AMD A55 chipset

AMD® A55 chipset is designed to support up to 5GT/s interface speed and PCI Express™ 2.0 graphics. It supports SATA 3Gb/s ports.



# FM2+ APU Support

Socket FM2+ is a new AMD CPU socket design that will support the yet to be released Steamroller core Kaveri APUs. The FM2+ has a slightly different pin configuration with two additional pin sockets, however FM2+ motherboards will retain backwards compatibility with previous generation Socket FM2 APUs. Socket FM2+ APUs possibly will not be compatible with Socket FM2 motherboards due to the aforementioned additional pins.

# Audio+



#### **HD** Audio

Provides high quality sound with minimal loss of audio fidelity.

# Video+



## DX11.1

Direct3D 11.1 enables Direct3D 10 APIs and Direct3D 11 APIs to use one underlying rendering device. And it allows developers to achieve a high speed, fully conformant software rasterizer.

# Speed+



## **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.



## **Charger Booster**

Charger booster is the best and efficient charger solution for apple devices such as iPad, iPhone. Basically, Charger booster Technology is able to boost the charging time to be more efficiency and faster once any apple goods connecting to our Motherboard. With charger booster technology, you are able to charge your apple devices up to 42 % faster.

## Durable+



## Moisture proof 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.



#### Low RdsOn P-Pak MOS

Low resistance design can significantly reduce the current out of energy loss. Low temperature, small size, excellent thermal conductivity.



# X.D.C (eXtreme Durable Capacitors)

Biostar adopts low ESR and high ripple conductive solid state caps that provide sufficient, stable power supply to the CPU. The life span can also be more than 6.25 x of ordinary liquid caps.

# Protection+



#### **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.





#### **BIOS Virus Protection**

When enabled, the BIOS will protect the boot sector and partition table by halting the system and flashing a warning message whether there's an attempt to write to these areas.



# 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.



# BullGuard Internet Security (90 days FREE trial)

BullGuard Internet Security comes with the broadest line-up of internet security features on the market, including: a cutting-edge dual Antivirus engine, Online Backup for your precious files, PC Tune Up to speed up your system, a Game Mode for a seamless gaming experience, Parental Control, Firewall, Safe Browsing and many more. Make the most of your digital life with Bullguard!





#### 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.



#### **BIO-Flasher**

BIO-Flasher is a convenient BIOS update tool. Just launch this tool and put the BIOS on USB pen driver before entering the OS. You can update your BIOS with only a few clicks without preparing an additional floppy disk or other complicated flash utility.



## eHot-Line Utiltiy

Integrated e-service automatically sends your technical support request to Biostar Globe tech support without any delay.



## **BIOScreen Utility**

Personalize your desktop with customizable boot logo. BIOScreen is the new feature that lets you personalize and create your own style with unique, custom-made boot logo.

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