BIOSTAR
WWW.BIOSTAR.COM.TW

# A58ML2 Motherboard

- Supported Socket FM2+/FM2 processors AMD A-series/ E2-series processor
- Supported AMD Mutil Core(x4,x2)
- AMD 100W processor support
- AMD A58 Chipset
- 2 DIMM supported DDR3-2600(OC0/ 2400(OC)/ 2133/ 1866/ 1600/ 1333/ 1066/ 800
- AMD Dual Graphics Technology

# A58ML2 Specifcation

| | |
|---|---|
| CPU SUPPORT | AMD A10 Processor<br>AMD A8 Processor<br>AMD A6 Processor<br>AMD A4 Processor<br>AMD E2 Processor<br>AMD Athlon™ II X4 Processor<br>Maximum CPU TDP (Thermal Design Power) : 100Watt |
| MEMORY | Support Dual Channel DDR3 2600(OC)/2400(OC)/2133/1866/1600/1333/1066/800 MHz<br>2 x DDR3 DIMM Memory Slot<br>Max. Supports up to 32GB Memory |
| INTEGRATED VIDEO | By CPU model<br>AMD Dual Graphics Technology<br>Supports DX11.1 |
| STORAGE | 4 x SATA II Connector<br>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<br>2 x USB 2.0 Header |

BIOSTAR

| | |
|---|---|
| EXPANSION SLOT | 1 x PCI-E 3.0 x16 Slot(supported by FM2+ CPU)<br>1 x PCI-E 2.0 x1 Slot |
| REAR I/O | 1 x PS/2 Mouse<br>1 x PS/2 Keyboard<br>4 x USB 2.0 Port<br>1 x VGA Port<br>1 x LAN Port<br>3 x Audio Jacks |
| INTERNAL I/O | 2 x USB 2.0 Header<br>4 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: 19cm x 17.8cm ( W x L ) |
| OS SUPPORT | Supports Windows XP / 7 / 8 / 8.1 / 10(x64) |
| BUNDLE SOFTWARE | BullGuard<br>BIO-Remote2<br>Smart Speed LAN |
| ACCESSORIES | 2 x SATA Cable<br>1 x I/O Shield<br>1 x DVD Driver<br>1 x Quick Guide |
| FEATURES | Windows 8 Ready<br>Supports Solid capacitor<br>BIO-FLASHER<br>Supports Charger Booster<br>Supports BIOS Online Update |

# A58ML2 OVERVIEW

## CPU-Chipset

| | |
|---|---|
| AMD A58 | **AMD A58 chipset**<br><br>AMD® A58 chipset is designed to support up to 5GT/s interface speed and PCI Express™ 2.0 graphics. It supports SATA 3Gb/s ports. |

BIOSTAR

## 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.

BIOSTAR

## 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.

# 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.

## 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.

BIOSTAR

## 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.

DIY+

## UEFI BIOS

Unified Extensible Firmware Interface (UEFI) is a brand new framework that provides a revolutionary interface. It is a modern clear and easy-to-use graphical user interface. The UEFI comes with a colorful easy-understand icons leads users into the setup layer directly.

## Header Zone

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

BIOSTAR

## 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.

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

BIOSTAR