

User's Manual

(English Edition)



Intel Pentium 4 Socket 478 CPU



AMD Athlon 64 Socket 754 CPU



AMD Athlon/ Duron/Athlon XP Socket 462 CPU



\* Please read before installation

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# 1. Features

- 1) Gold plated pure copper base maximizes cooling performance and prevents CPU blocks from galvanic corrosion
- Intel Pentium 4 (Socket 478), AMD Athlon/Duron/Athlon XP (Socket 462), Athlon 64 (Socket 754) compatible design for broad compatibility.
- Three types of compression fitting are offered for use with water tubes (8X10mm,8X11mm,10X13mm)
  \* Zalman Tech. Co., Ltd. is not responsible for any damage resulting from CPU OVERCLOCKING.

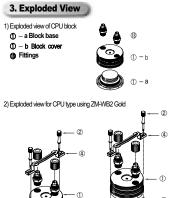
# 2. Specifications

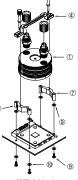
Part No	Part name	Q' ty	Weight (g)	Use
1	CPU block	1	447.0	CPU mountimg
2	Hand screw	2	8.0	Clip mountimg
3	Thermal grease	1	1.8	Apply to cpu core
4	Clip	1	9.6	CPU block mountimg
5	User's manual	1		
6	Clip supports	2	8.2	Socket 478
7	Clip supports A	2	5.0	Socket 462
8	Clip supports B	2	5.0	Socket 462
9	Bolts	4	0.8	Clip supports, A, B-type
10	Paper washer	1 set		7, 8 mountimg
11	Nipple	2	6.2	Socket 754 mountimg
12	Back plate		60.0	Socket 754 mountimg
13	Fitting	3 set		Fitting to 8 x 10mm, 8 x 11mm, 10 x 13mm tubes

NOTE 1) The maximum weight for the cooler is specified as 450g/450g/300g for socket 478/754462 respectively. Special care should be taken when moving a computer equipped with a cooler which exceeds the relevant weight limit. Zalman Tech Is not responsible for anv damate that occurs when moving a computer.

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AMD Athlon/ Duron/Athlon XP Socket 462 CPU

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AMD Athlon 64

Socket 754 CPU

Intel Pentium 4

Socket 478 CPU

2

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# 4. Components

#### 1) Common Components

- CPU block 1 pc.
- ② Hand screw 2 pcs.
- ③ Thermal grease 1 pc.
- ④ Clip 1 pc.
- ⑤ User's manual
- (3) Fittings 6 pcs. (3 sets)





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Components for Intel Pentium 4 (Socket 478)
 Two (2) Clip Supports for Socket 478

3) Components for AMD Athlon / Athlon XP (Socket 462)

- ⑦ One (1) A -Type(blue) Clip Support for AMD Socket 462
- (8) One (1) B -Type(white) Clip Support for AMD Socket 462
- ③ Four Bolts For Fastening Clip Supports
- ① One Set of Washers







4) Components for AMD Athlon 64 (Socket 754)

- Two Nipples
- ② One Backplate

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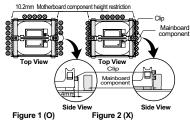
# 5. Compatible CPU Types

### 1) Intel Pentium 4 - Socket 478

All speeds of Pentium 4 Socket 478 CPUs

#### Caution

As shown in Figure 2, a mainboard that is not compliant with the "10.2 mm mainboard component height restriction" standard, introduced by Intel, may create interference between components and the clip. Please do not install the ZM-WB2 when this interference is observed.



#### 2) AMD Athlon/Duron/Athlon XP - Socket 462 All speeds of AMD Socket 462 CPUs

### Caution

- ① This product requires "Heatsink Attach Holes" around CPU Socket as shown on the right.
- ② This product can not be installed if any Motherboard component(capacitor) taller than 1.5cm is located under the clip.

## 3) AMD Athlon 64 - Socket 754

All speeds of AMD Socket 754 CPUs load from Www.Somanuals.com. All Manuals Search And The seadfattors of yur youd: may change without provide to improve the performance thereof.



Heat sink attach holes

# 6. Cautions During Installation

- 1) Keep this product away from children.
- Zalman Tech. Co., Ltd. is not responsible for any problems arising from using the product outside its intended purpose..
- 3) The exposed core of a Socket 462 CPU can be damaged if proper care is not taken. Read the "Installation" section thoroughly before installing.
- 4) Please do not install this product if ZM-WB2 interferes with any mainboard components.
- 5) Zalman Tech. Co., Ltd. is not responsible for any problems arising from using the ZM-WB2.

# 7. Installation (INTEL Pentium 4, Socket 478)

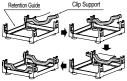
### 1) Apply Thermal Grease

Spread thermal grease thinly and evenly over the CPU core (IHS).



### 2) Install Clip Support

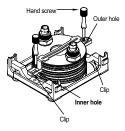
Install the two clip supports at both sides of the retention guide as shown on the right.



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### 3) Insert Hand screws

Insert hand screws into the inner holes on the dip.



#### 4) Fasten Hand screws

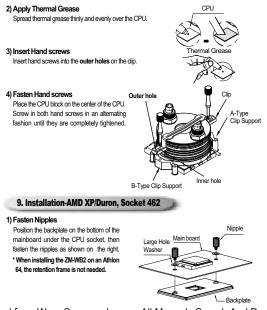
Place the CPU block on the center of the CPU. Screw in both Hand screws in an alternating fashion until they are completely tightened.

## 8. Installation-AMD XP/Duron, Socket 462

## 1) Install Clip spport

Install the socket 462 dip supports as shown on the right.





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### 2) Apply Thermal Grease

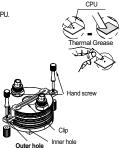
Spread thermal grease thinly and evenly over the CPU.

### 3) Insert Hand screws

Insert hand screws into the outer holes on the dip.

### 4) Fasten Hand screws

Place the CPU block on the center of the CPU. Partially screw the bolts into the nipples. Then, screw both bolts down further in an alternating fashion until they are completely tightened.



## 10. Build a noiseless system

### Creating a Complete Noiseless System

Use the following Zalman products to achieve stable and silent operation of your computer, Noiseless Power Supply, Fanless Coolers for Northbridge Chipset & Video Card, and Noiseless Fan.



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