



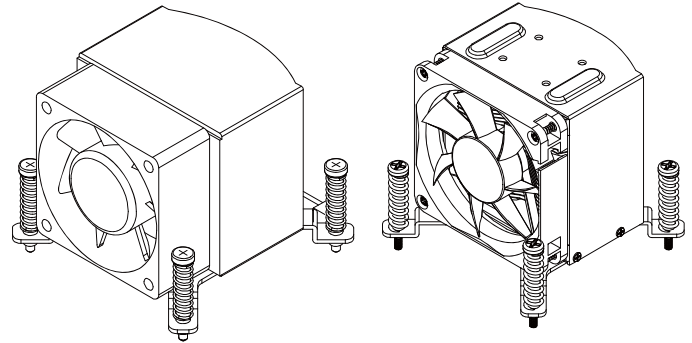
**SILVERSTONE**<sup>®</sup>  
Designing Inspiration

SilverStone Technology Co., Ltd.

[www.silverstonetek.com](http://www.silverstonetek.com)

support@silverstonetek.com

NO: G11226240



**AR09-115XS**

**AR10-115XS**

**Superior 2U(AR09 series)/3U(AR10 series) server thermal solution for Intel LGA 115X**

## Warranty Information

This product has a limited 1 year warranty in North America, Europe, and Australia.  
For information on warranty periods in other regions, please contact your reseller or SilverStone authorized distributor.

### Warranty terms & conditions

- Product component defects or damages resulted from defective production is covered under warranty.  
Defects or damages with the following conditions will be fixed or replaced under SilverStone Technology's jurisdiction.  
a) Usage in accordance with instructions provided in this manual, with no misuse, overuse, or other inappropriate actions.  
b) Damage not caused by natural disaster (thunder, fire, earthquake, flood, salt, wind, insect, animals, etc...) )  
c) Product is not disassembled, modified, or fixed. Components not disassembled or replaced.  
d) Warranty mark/stickers are not removed or broken.  
Loss or damages resulted from conditions other than ones listed above are not covered under warranty.
- Under warranty, SilverStone Technology's maximum liability is limited to the current market value for the product (depreciated value, excluding shipping, handling, and other fees). SilverStone Technology is not responsible for other damages or loss associated with the use of product.
- Under warranty, SilverStone Technology is obligated to repair or replace its defective products. Under no circumstances will SilverStone Technology be liable for damages in connection with the sale, purchase, or use including but not limited to loss of data, loss of business, loss of profits, loss of use of the product or incidental or consequential damage whether or not foreseeable and whether or not based on breach of warranty, contract or negligence, even if SilverStone Technology has been advised of the possibility of such damages.
- Warranty covers only the original purchaser through authorized SilverStone distributors and resellers and is not transferable to a second hand purchaser.
- You must provide sales receipt or invoice with clear indication of purchase date to determine warranty eligibility.
- If a problem develops during the warranty period, please contact your retailer/reseller/SilverStone authorized distributors or SilverStone <http://www.silverstonetek.com>.  
Please note that: (i) You must provide proof of original purchase of the product by a dated itemized receipt; (ii) You shall bear the cost of shipping (or otherwise transporting) the product to SilverStone authorized distributors. SilverStone authorized distributors will bear the cost of shipping (or otherwise transporting) the product back to you after completing the warranty service; (iii) Before you send the product, you must be issued a Return Merchandise Authorization ("RMA") number from SilverStone. Updated warranty information will be posted on SilverStone's official website. Please visit <http://www.silverstonetek.com> for the latest updates.

### Additional info & contacts

**For North America** (usasupport@silverstonetek.com)  
SilverStone Technology in North America may repair or replace defective product with refurbished product that is not new but has been functionally tested. Replacement product will be warranted for remainder of the warranty period or thirty days, whichever is longer. All products should be sent back to the place of purchase if it is within 30 days of purchase; after 30 days, customers need to initiate RMA procedure with SilverStone Technology in USA by first downloading the "USA RMA form for end-users" form from the below link and follow its instructions.  
<http://silverstonetek.com/contactus.php>

**For Australia only** (support@silverstonetek.com)  
Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure. Please refer to above "Warranty terms & conditions" for further warranty details.

SilverStone Technology Co., Ltd. 12F No. 168 Jiankang Rd., Zhonghe Dist., New Taipei City 235 Taiwan R.O.C. + 886-2-8228-1238  
(standard international call charges apply)

**For Europe** (support.eu@silverstonetek.de)  
**For all other regions** (support@silverstonetek.com)

## SPECIAL FEATURES

**Three Ø6mm heat-pipes and aluminum fins for excellent heat conducting efficiency**

**Heat-pipe direct contact (HDC) technology**

**Dual ball bearing PWM fan**

**Includes spring screw bracket with backplane**

**Intel LGA1150/1151/1155/1156 compatible**

## Introduction

**SilverStone AR09-115XS/AR10-115XS is a CPU cooler designed for 2U rackmount server or small form factor cases. Its features three 6mm thick copper heat pipes connected to the base using heat-pipe direct contact (HDC) technology and a dual ball bearing PWM fan. In addition, its heatsink fins have wave-shaped design that works efficiently with the included air duct to help quickly wick away heat for exceptional CPU cooling performance.**

## Specifications

Model No.	SST-AR09-115XS	SST-AR10-115XS
Material	Copper heat pipes with aluminum fins	Copper heat pipes with aluminum fins
Application	Intel LGA 1150/1151/1155/1156	Intel LGA 1150/1151/1155/1156
Heat Pipe Type	Ø6mm heat-pipe x 3	Ø6mm heat-pipe x 3
Cooling System	60mm x 60mm x 25mm fan	70mm x 70mm x 15mm fan
Dimension	88mm (W) x 88mm (D) x 66mm (H) (with Fan)	88mm (W) x 88mm (D) x 79mm (H) (with Fan)
Noise	18.02 ~ 42.5dBA	18.07 ~ 39.03dBA
Bearing	Dual ball bearing	Dual ball bearing
Net Weight	295g (without fan)	320g (without fan)
Voltage Rating (V)	12V	12V
Start Voltage (V)	9.6V	9.6V
Max air pressure	0.33 ~ 4.83mmH2O	0.08 ~ 4.83mmH2O
Air Flow (CFM)	6.7 ~ 27.9CFM	4.83 ~ 19.49CFM
Speed (R.P.M.)	1200 ~ 5000RPM	500 ~ 4000RPM
Life Expectance (hrs)	70,000 hours	70,000 hours

## Installation Guide

### 1 ENGLISH

Install included back-plate onto the backside of the motherboard.

### DEUTSCH

Installieren Sie die mitgelieferte Rückplatte an der Rückseite des Motherboards.

### FRANÇAIS

Installez la plaque arrière sur la face arrière de la carte mère.

### ESPAÑOL

Instale la placa trasera incluida en la parte trasera de la placa base.

### ITALIANO

Installare la piastra posteriore fornita in dotazione sul retro della scheda madre.

### РУССКИЙ

Установите прилагаемую установочную панель на задней части системной платы.

### 繁體中文

請將所附背板安裝於主機板背面。

### 簡體中文

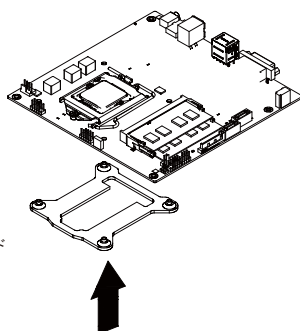
請將所附背板安裝於主機板背面。

### 日本語

付属のバックプレートをマザーボードの裏側に取り付けます。

### 한국어

제공된 백 플레이트를 메인보드의 뒷면에 설치합니다.



### 2 ENGLISH

Apply included heatsink compound on you CPU evenly.

### DEUTSCH

Tragen Sie die mitgelieferte Wärmeleitpaste gleichmäßig auf Ihre CPU auf.

### FRANÇAIS

Appliquez le dissipateur de chaleur composé sur votre CPU de façon régulière.

### ESPAÑOL

Aplique el compuesto conductor térmico incluido en su CPU de forma uniforme.

### TALIANO

Applicare in modo uniforme sulla CPU il composto termico per il dissipatore. Il calore fornito in dotazione.

### РУССКИЙ

Равномерно нанесите прилагаемую термопасту на процессор.

### 繁體中文

請將散熱膏均勻地塗抹在CPU上。

### 簡體中文

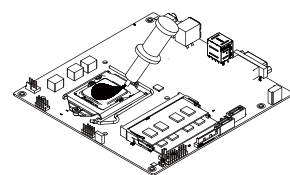
請將散熱膏均勻地塗抹在CPU上。

### 日本語

付属のヒートシンクコンパウンドをCPUにむらなく塗ります。

### 한국어

제공된 방열판 점착제를 CPU에 고르게 바릅니다.



# Installation Guide

3

**ENGLISH**  
Place the AR09-115XS/AR10-115XS cooler on top of the installed CPU, and align the four spring screw with the holes on the motherboard.

**DEUTSCH**  
Bringen Sie den AR09-115XS/AR10-115XS -Kühler auf der installierten CPU an, richten Sie die vier Federschrauben an den Löchern am Motherboard aus.

**FRANÇAIS**  
Coloquez le refroidisseur sur le AR09-115XS/AR10-115XS sur le dessus du CPU intégré, puis alignez les quatre vis à ressort avec les trous sur la carte mère.

**ESPAÑOL**  
Coloque el dissipador AR09-115XS/AR10-115XS sobre la CPU instalada y alinee los cuatro tornillos con los agujeros de la placa base.

**ITALIANO**  
Collocare il dissipatore di calore AR09-115XS/AR10-115XS sopra la CPU installata, ed allineare le quattro viti a molla con i fori sulla scheda madre.

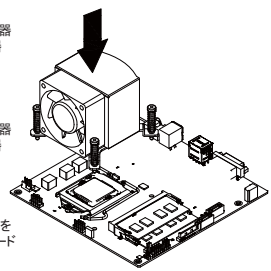
**РУССКИЙ**  
Расположите вентилятор AR09-115XS/AR10-115XS над верхней частью установленного процессора и совместите четыре пружинных винта с отверстиями на системной плате.

**繁體中文**  
請將AR09-115XS/AR10-115XS 散熱器置於已安裝CPU上方，並將四顆散熱器螺絲對準主機板上的孔位。

**簡體中文**  
請將AR09-115XS/AR10-115XS 散熱器置於已安裝CPU上方，並將四顆散熱器螺絲對準主機板上的孔位。

**日本語**  
AR09-115XS/AR10-115XS Xクーラーを装着されたCPUの上に置き、マザーボードの4つのネジ穴に合わせてください。

**한국어**  
AR09-115XS/AR10-115XS 쿨러를 설치된 CPU의 상부에 올려놓고 4개의 스프링 나사를 메인보드의 구멍에 맞춥니다.



4

**ENGLISH**  
Press and fasten two screws in position A as shown and then the other two in position B to fix the CPU cooler in place.

**DEUTSCH**  
Befestigen Sie zum Fixieren des CPU-Kühlers zwei Schrauben wie abgebildet in Position A und zwei weitere Schrauben in Position B.

**FRANÇAIS**  
Appuyez sur deux vis et vissez deux vis en position A comme indiqué puis les deux autres en B pour fixer le refroidisseur de CPU en place.

**ESPAÑOL**  
Presione y fije dos tornillos en la posición A como se muestra y luego los otros dos en la posición B para colocar el dissipador de la CPU en su lugar.

**ITALIANO**  
Premere e stringere le due viti in posizione A, come mostrato, quindi le due viti in posizione B per fissare in posizione il dissipatore di calore CPU.

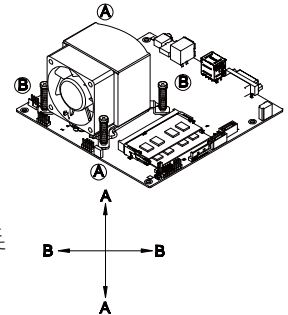
**РУССКИЙ**  
Нажмите и закрепите два винта в положении A, как показано, а затем два винта в положении B для фиксации процессора.

**繁體中文**  
CPU風扇安裝完成，將CPU風扇電源接頭接上主機板。

**簡體中文**  
CPU風扇安裝完成，將CPU風扇電源接頭接上主板。

**日本語**  
CPUクーラーは、図のようにAの位置にネジ2本を固定し、残り2本はBの位置に締めて所定の位置に固定します。

**한국어**  
그림과 같이 위치 A에서 2개의 나사를 틀러 고정 후 위치 B에서 나머지 2개의 나사를 사용하여 CPU 쿨러를 제자리에 고정합니다.



5

**ENGLISH**  
When the AR09-115XS/AR10-115XS is installed, connect the CPU fan cable to the motherboard fan header for CPU.

**DEUTSCH**  
Wenn der AR09-115XS/AR10-115XS installiert ist, verbinden Sie das CPU-Lüfterkabel mit der Motherboard-Lüftersteckleiste für die CPU.

**FRANÇAIS**  
Une fois le AR09-115XS/AR10-115XS installé, connectez le câble du ventilateur de CPU à la tête du ventilateur de la carte mère de CPU.

**ESPAÑOL**  
Cuando la AR09-115XS/AR10-115XS esté instalada, conecte el cable del ventilador de la CPU al conector del ventilador de la CPU en su placa base.

**ITALIANO**  
Quando AR09-115XS/AR10-115XS è installato, collegare il cavo ventola CPU al collettore ventola CPU della scheda madre.

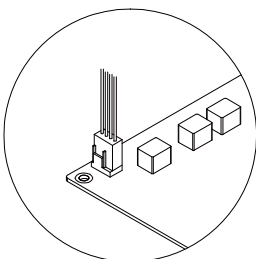
**РУССКИЙ**  
После установки AR09-115XS/AR10-115XSПодсоедините кабель вентилятора процессора к разъему вентилятора системной платы.

**繁體中文**  
當AR09-115XS/AR10-115XS安裝完成後，將CPU風扇的連接線接上主機板風扇接頭。

**簡體中文**  
當AR09-115XS/AR10-115XS安裝完成後，將CPU風扇的連接線接上主機板風扇接頭。

**日本語**  
AR09-115XS/AR10-115XSが設置されたら、CPUファンケーブルをマザーボードのCPUファンヘッダに接続します。

**한국어**  
AR09-115XS/AR10-115XS가 설치되면 CPU 팬 케이블을 CPU용 메인보드 팬 헤더에 연결합니다.



# Removal Guide

1

**ENGLISH**  
Remove the CPU fan cable from the motherboard fan header.

**DEUTSCH**  
Entfernen Sie das CPU-Lüfterkabel von der Motherboard-Lüftersteckleiste.

**FRANÇAIS**  
Retirez le câble du ventilateur de la tête du ventilateur de la carte mère.

**ESPAÑOL**  
Retire el cable del ventilador de la CPU del conector de la placa base.

**ITALIANO**  
Rimuovere il cavo ventola CPU dal collettore ventola della scheda madre.

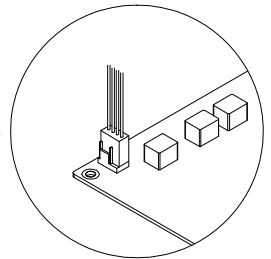
**РУССКИЙ**  
Отсоедините кабель вентилятора процессора от разъема вентилятора системной платы.

**繁體中文**  
將CPU風扇的連接線從主機板風扇接頭移除。

**簡體中文**  
將CPU風扇的連接線從主機板風扇接頭移除。

**日本語**  
CPUファンケーブルをマザーボードのファンヘッダから外します。

**한국어**  
CPU 팬 케이블을 메인보드 팬 헤더에서 분리합니다.



2

**ENGLISH**  
Loosen and pull up two screws in position A and then the other two in position B from the motherboard.

**DEUTSCH**  
Lösen und entnehmen Sie zum Entfernen des CPU-Kühlers vom Motherboard die beiden Schrauben in Position A, dann die beiden Schrauben in Position B.

**FRANÇAIS**  
Devissez et retirez deux vis en position A puis les deux autres en position B pour retirer le refroidisseur de CPU de la carte mère.

**ESPAÑOL**  
Afloje y tire de los dos tornillos en la posición A y luego de los otros dos en la posición B para retirar el dissipador de la CPU de la placa base.

**ITALIANO**  
Allentare e sollevare le due viti in posizione A, quindi le altre due viti in posizione B per rimuovere il dissipatore di calore CPU dalla scheda madre.

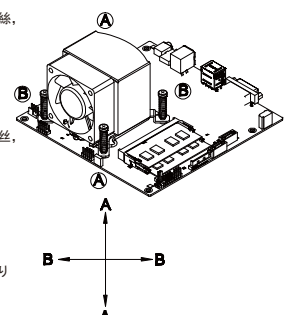
**РУССКИЙ**  
Ослабьте и потяните вверх два винта в положении A, а затем другие два винта в положении B для снятия вентилятора процессора с системной платы.

**繁體中文**  
請依圖示依序鬆開並拉起位置A的螺絲，再依序鬆開並拉起位置B的螺絲。

**簡體中文**  
請依圖示依序鬆開並拉起位置A的螺絲，再依序鬆開並拉起位置B的螺絲。

**日本語**  
Aの位置のネジ2本を緩めて外し、それからBの位置のネジを緩めてCPUクーラーをマザーボードから取り外します。

**한국어**  
위치 A에서 2개의 나사를 풀어 위로 당긴 후 위치 B에서 나머지 2개의 나사도 풀어 위로 당겨 CPU 쿨러를 메인보드에서 분리합니다.



3

**ENGLISH**  
Remove the CPU cooler from the motherboard.

**DEUTSCH**  
Nehmen Sie den CPU-Kühler vom Motherboard ab.

**FRANÇAIS**  
Retirez le dissipateur de la carte mère.

**ESPAÑOL**  
Retire el dissipador de la CPU de la placa base.

**ITALIANO**  
Rimuovere il cooler del CPU dalla scheda madre.

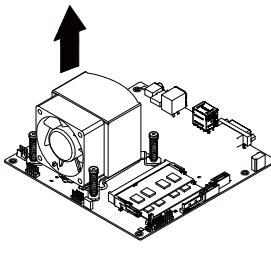
**РУССКИЙ**  
Выньте кулер ЦП из материнской платы.

**繁體中文**  
請將散熱器自主機板上方移除。

**簡體中文**  
請將散熱器自主機板上移除。

**日本語**  
マザーボードからCPUクーラーを取り外します。

**한국어**  
메인보드부터 CPU 쿨러를 제거합니다.



4

**ENGLISH**  
Remove back-plate from the motherboard.

**DEUTSCH**  
Entfernen Sie die Rückplatte vom Motherboard.

**FRANÇAIS**  
Retirez la plaque arrière de la carte mère.

**ESPAÑOL**  
Retire la placa trasera de la placa base.

**ITALIANO**  
Rimuovere piastra posteriore dalla scheda madre.

**РУССКИЙ**  
Снимите установочную панель с системной платы.

**繁體中文**  
請將所附背板從主機板背面移除。

**簡體中文**  
請將所附背板從主機板背面移除。

**日本語**  
マザーボードからバックプレートを取り外します。

**한국어**  
백 플레이트를 메인보드에서 분리합니다.

