



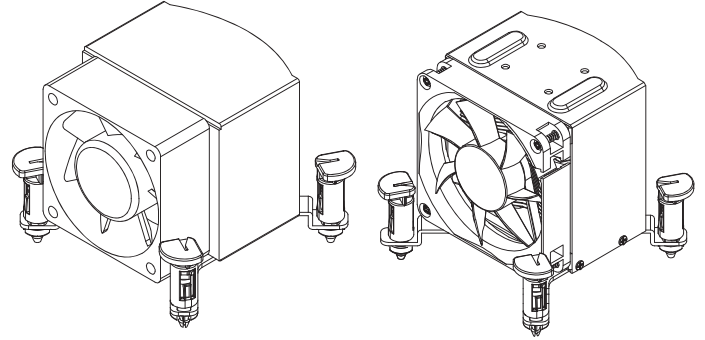
SILVERSTONE[®]
Designing Inspiration

SilverStone Technology Co., Ltd.

www.silverstonetek.com

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NO: G11226260



AR09-115XP

AR10-115XP

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

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

Push-Pin design for convenient installation

Intel LGA1150/1151/1155/1156 compatible

Introduction

SilverStone AR09-115XP/AR10-115XP 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-AR09-115XP	SST-AR10-115XP
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	93mm (W) x 93mm (D) x 66mm (H) (with Fan)	93mm (W) x 93mm (D) x 79mm (H) (with Fan)
Noise	18.02 ~ 42.5dBA	18.07 ~ 39.03dBA
Bearing	Dual ball bearing	Dual ball bearing
Net Weight	215g (without fan)	240g (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

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.
 - Usage in accordance with instructions provided in this manual, with no misuse, overuse, or other inappropriate actions.
 - Damage not caused by natural disaster (thunder, fire, earthquake, flood, salt, wind, insect, animals, etc...)
 - Product is not disassembled, modified, or fixed. Components not disassembled or replaced.
 - 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)

Installation Guide

1 ENGLISH
Apply included heatsink compound on your 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.

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

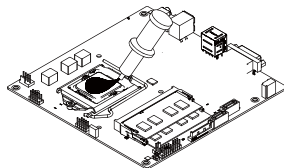
РУССКИЙ
Равномерно нанесите прилагаемую термопасту на процессор.

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.



2 ENGLISH
Place the AR09-115XP/AR10-115XP cooler on top of the installed CPU, and align the four fasteners with the holes on the motherboard. (Make sure each fastener is oriented as shown, with the arrow directed outward.)

DEUTSCH
Setzen Sie den AR09-115XP/AR10-115XP-Kühler auf die installierte CPU auf, achten Sie darauf, dass die vier Halter über den Aussparungen im Motherboard sitzen. (Achten Sie darauf, dass die Halter wie in der Abbildung ausgerichtet sind – der Pfeil zeigt nach außen.)

FRANÇAIS
Placez le AR09-115XP/AR10-115XP par-dessus le processeur installé, et alignez les 4 fixations rapides avec les trous de la carte mère. (Vérifiez bien que chaque fixation rapide est orientée comme montré, avec la flèche dirigée vers l'extérieur.)

ESPAÑOL
¡Sitúe el disipador AR09-115XP/AR10-115XP sobre la CPU instalada y alinee los cuatro cierres con los agujeros de la placa base. (Asegúrese de que cada cierre se oriente de la forma que se muestra, con la flecha hacia el exterior.)

ITALIANO
Posizionare il cooler AR09-115XP/AR10-115XP sul CPU installato ed allineare i quattro ganci con i fori della scheda madre (assicurarsi che ciascun gancio sia orientato come mostrato, con la freccia diretta verso l'esterno).

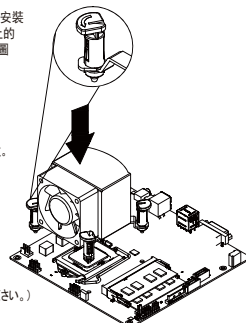
РУССКИЙ
Поместите кулер AR09-115XP/AR10-115XP на верхнюю часть установленного ЦП, выровняйте четыре зажима и соответствующие отверстия материнской платы. (Убедитесь, что зажимы ориентированы так, как показано на рисунке, т.е. стрелка направлена наружу.)

繁體中文
將AR09-115XP/AR10-115XP 散熱器置於已安裝 CPU 上方，並將四個散熱器螺絲對準主機板上的孔位。(請確認每個散熱器螺絲的方向與附圖上的箭頭方向一致)

簡體中文
將AR09-115XP/AR10-115XP 散熱器置於已安裝 CPU 上方，並將四個散熱器螺絲對準主機板上的孔位。(請確認每個散熱器螺絲的方向與附圖上的箭頭方向一致)

日本語
AR09-115XP/AR10-115XPクーラーをインストールするに CPU の上に置き、4 本の 고정 핀을 메인보드의 구멍에 정렬합니다. (반드시 고정핀이 그림과 같이 화살표 방향이 바깥쪽을 위시하도록 합니다.)

한국어
AR09-115XP/AR10-115XP를 장착된 CPU 위에 위치시키고, 4개의 고정 핀을 메인보드의 구멍에 정렬합니다. (반드시 고정핀이 그림과 같이 화살표 방향이 바깥쪽을 위시하도록 합니다.)



Installation Guide

3

ENGLISH
Press and hook up two fasteners of A at a time and then the other two of B fix the CPU cooler in place.

DEUTSCH
Zum Fixieren der CPU drücken Sie zunächst die beiden Halter A gleichzeitig hinab, anschließend drücken Sie die beiden Halter B ebenfalls gleichzeitig hinab.

FRANÇAIS
Appuyez et crochetez les deux fixations rapides A en même temps et ensuite les deux autres fixations rapides B du dissipateur du processeur.

ESPAÑOL
Presione y enganche hasta dos cierres A a la vez y luego los otros dos B para situar el disipador de CPU en su lugar.

ITALIANO
Premere e agganciare contemporaneamente due ganci di A e poi gli altri ganci di B per fissare il cooler del CPU

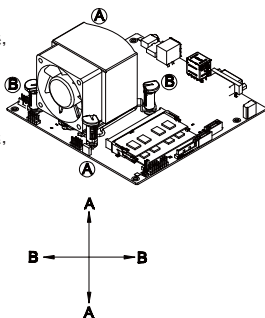
РУССКИЙ
Нажмите одновременно и зацепите два зажима А, а затем два зажима В, тем самым зафиксировав кулер ЦП.

繁體中文
請依圖示下壓與鎖上位置A的散熱器螺絲，再下壓與鎖上位置B的散熱器螺絲。

簡體中文
請依圖標下壓與鎖上位置A的散熱器螺絲，再下壓與鎖上位置B的散熱器螺絲。

日本語
図のようにAの方向の2個のファスナーを同時に押し込んで固定し、他方のBのファスナー2個も固定して、CPUクーラーを所定の位置に取り付けます。

한국어
A의 두개의 고정핀을 한개씩 눌러 끼운 후, B쪽도 동일하게 끼워 클러가 자리를 잡도록 합니다.



4

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

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

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

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

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

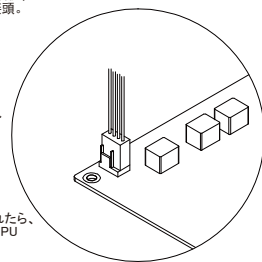
РУССКИЙ
После установки AR09-115XP/AR10-115XP подсоедините кабель вентилятора процессора к разъему вентилятора системной платы.

繁體中文
當AR09-115XP/AR10-115XP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AR09-115XP/AR10-115XP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
AR09-115XP/AR10-115XP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
AR09-115XP/AR10-115XP가 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.

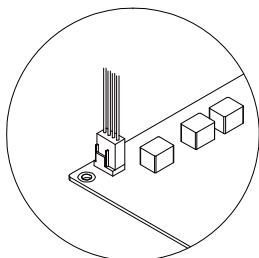
РУССКИЙ
Отсоедините кабель вентилятора процессора от разъема вентилятора системной платы.

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
Rotate each fastener in a counterclockwise direction.

DEUTSCH
Drehen Sie die einzelnen Halterungen gegen den Uhrzeigersinn.

FRANÇAIS
Faites tourner chaque fixation rapide dans le sens inverse des aiguilles d'une montre.

ESPAÑOL
Gire cada cierre en dirección contraria a las agujas del reloj.

ITALIANO
Rotare ciascun gancio in senso orario.

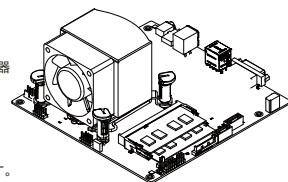
РУССКИЙ
Поверните каждый зажим против часовой стрелки.

繁體中文
請依圖示箭頭方向逆時針旋轉散熱器螺絲。

簡體中文
請依圖示箭頭方向逆時針旋轉散熱器螺絲。

日本語
各ファスナーを反時計回りに回します。

한국어
각 고정핀을 시계 반대방향으로 돌려줍니다.



3

ENGLISH
Pull up two fasteners of A at a time and then the other two of B to remove the CPU Cooler from the motherboard.

DEUTSCH
Zum Abnehmen des CPU-Kühlers vom Motherboard ziehen Sie zunächst die beiden Halter A gleichzeitig heraus, anschließend ziehen Sie die beiden Halter B ebenfalls gleichzeitig heraus.

FRANÇAIS
Tirez vers le haut les deux fixations rapides A en même temps, puis faites de même avec les fixations rapides B afin de retirer de votre carte mère le dissipateur du processeur.

ESPAÑOL
Tire de hasta dos cierres A a la vez y luego los otros dos B para retirar el disipador de CPU de la placa base.

ITALIANO
Tirare contemporaneamente i ganci di A e poi i ganci di B per rimuovere il cooler del CPU dalla scheda madre.

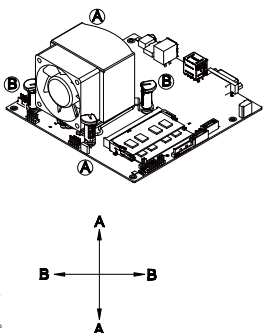
РУССКИЙ
Одновременно потяните два зажима А, а затем два зажима В, и высвободите кулер ЦП из отверстия материнской платы.

繁體中文
請依圖示拉起位置A散熱器螺絲，再拉起位置B散熱器螺絲，以將CPU自主板取出。

簡體中文
請依圖標拉起位置A散熱器螺絲，再拉起位置B散熱器螺絲，以將CPU自主板取出。

日本語
Aの側のファスナー2個を同時に引き上げ、他方のB側のファスナー2個を引き上げて、マザーボードからCPUクーラーを外します。

한국어
A의 2개의 고정핀을 한개씩 차례로 위로 당겨준 후, B쪽의 고정핀도 차례로 하나씩 당긴 후, CPU 쿨러를 메인보드로부터 제거합니다.



4

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 disipador de la CPU de la placa base.

ITALIANO
Rimuovere il cooler del CPU dalla scheda madre.

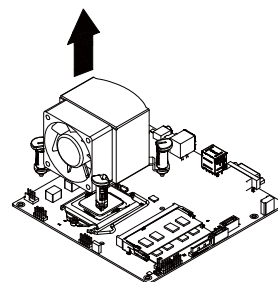
РУССКИЙ
Выньте кулер ЦП из материнской платы.

繁體中文
將CPU散熱器自主板上移除。

簡體中文
將CPU風扇電源線自主板上移除。

日本語
マザーボードからCPUクーラーを取り外します。

한국어
메인보드로부터 CPU 쿨러를 제거합니다.



5

ENGLISH
Rotate each fastener in a clockwise direction to reset its place. (When reset, each fastener should be oriented as shown, with the arrow directed outward.)

DEUTSCH
Drehen Sie sämtliche Halter zum Rücksetzen gegen den Uhrzeigersinn. (Achten Sie darauf, dass die Halter nach dem Rücksetzen wie in der Abbildung ausgerichtet sind – der Pfeil zeigt nach außen.)

FRANÇAIS
Faites tourner chaque fixation rapide dans le sens des aiguilles d'une montre pour le réinitialiser. (Lors de la réinitialisation, chaque fixation rapide doit être positionnée comme montré, avec la flèche dirigée vers l'extérieur.)

ESPAÑOL
Gire cada cierre en el sentido de las agujas del reloj para volverlos a poner en su lugar. (Cuando vuelvan a estar en su lugar, cada cierre deberá estar orientado como se muestra, con la flecha hacia fuera.)

ITALIANO
Ruotare ciascun gancio in senso orario per ristabilire la posizione. (ogni gancio deve essere orientato come mostrato con la freccia diretta verso fuori.)

РУССКИЙ
Поверните зажимы по часовой стрелке, чтобы вернуть их в исходное положение. (В исходном положении зажимы должны быть ориентированы так, как показано на рисунке, т.е. стрелка направлена наружу.)

繁體中文
將每個散熱器螺絲順時鐘旋轉以復原其位置。(當歸位時，每個散熱器螺絲上的螺絲應與圖示中的箭頭方向一致)

簡體中文
將每個散熱器螺絲順時鐘旋轉以復原其位置。(當歸位時，每個散熱器螺絲上的螺絲應與圖示中的箭頭方向一致)

日本語
各ファスナーを時計方向に回して、所定の場所に設置します。(設置するときは、図のように矢印を外向きにしてください。)

한국어
고정핀을 시계 방향으로 돌려 제자리로 돌아오게 리셋 합니다.(리셋이 된 상태에서 고정핀은, 그림과 같이 화살표 방향이 바깥으로 외아 합니다.).

