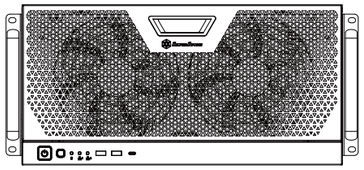
SILVERSTONE



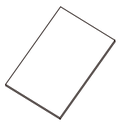
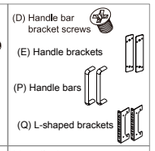
# RM51

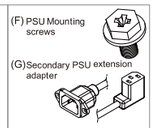
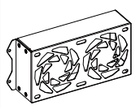
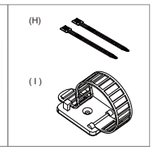
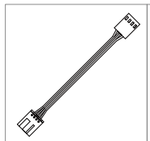
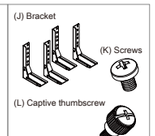
5U rackmount server chassis
with enhanced liquid cooling compatibility

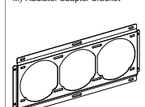
**User manual**

www.silverstonetek.com

## Parts package component list

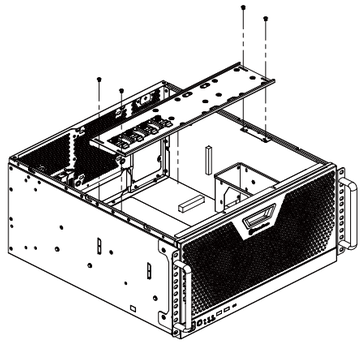
| | | |
|---|---|---|
|  | (A) Case feet<br>(B) Case feet screws<br>(C) Case feet washers |  (D) Handle bar bracket screws<br>(E) Handle brackets<br>(P) Handle bars<br>(Q) L-shaped brackets |
| Manual | Horizontal to vertical position accessories | Handle bar accessories (vertical position) |

| | | |
|---|---|---|
| | |  (F) PSU Mounting screws<br>(G) Secondary PSU extension adapter |
| Motherboard screws | 2.5" SSD screws | PSU accessories |
| |  |  (H)<br>( I ) |
| Motherboard standoff | 80mm external fan cage | (H) Cable ties<br>( I ) Cable management buckle |
|  | |  (J) Bracket<br>(K) Screws<br>(L) Captive thumbscrew |
| Fan extension cable | 3.5" HDD screws | Nvidia 30 series graphics card accessories |

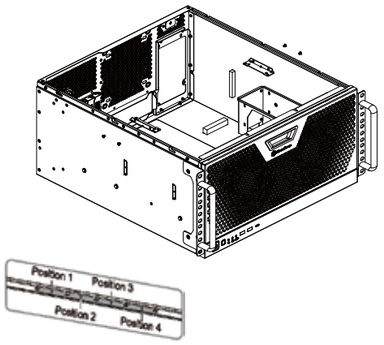
| | | |
|---|---|---|
| M) Radiator adapter bracket  | N) Radiator adapter bracket mounting screws | O) Radiator adapter bracket / 80mm external fan cage mounting screws |
| Radiator adapter bracket accessories | | |

## Hard drives and expansion card retainer installation

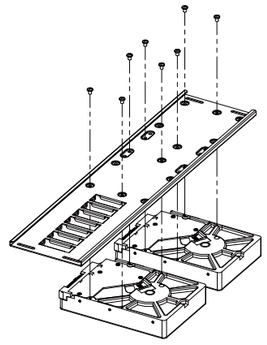
1. Remove 4 screws from expansion card retainer



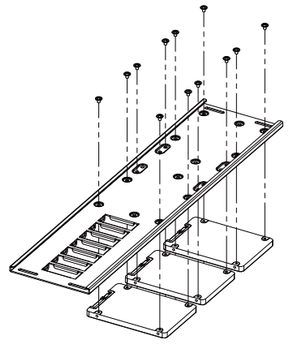
2. Expansion card retainer position shift



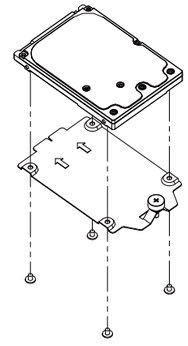

3. Install 2 x 3.5" HDD on the expansion card retainer



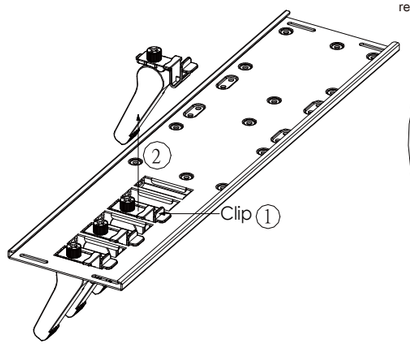
4. Install 3 x 2.5" SSD on the expansion card retainer



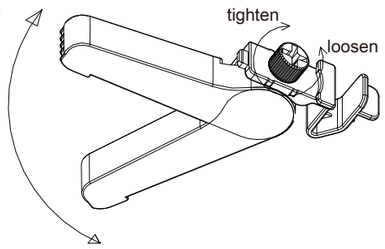
5. Install 2.5" SSD on to 2.5" SSD trays



6. Remove expansion card buckle

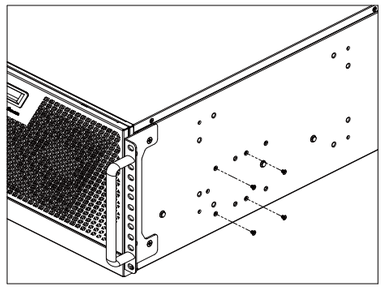



7. Adjust position of the expansion card retainer according to the required height of the expansion card, then tighten the screws

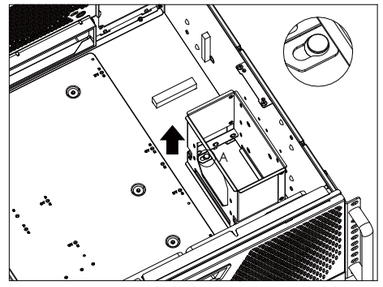



## SFX PSU or 3.5” HDD installation guide

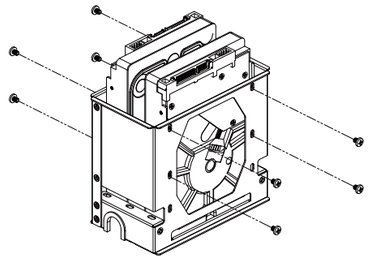
1. Remove the side mounting screws



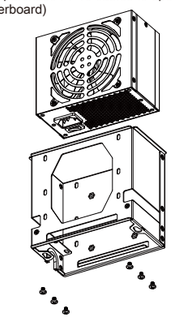
2. Shift the cage off the buckle then remove the cage



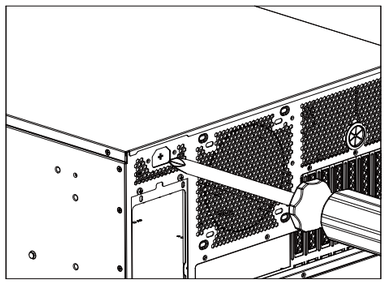
3. Insert 3.5” HDD into the cage, then secure with screws



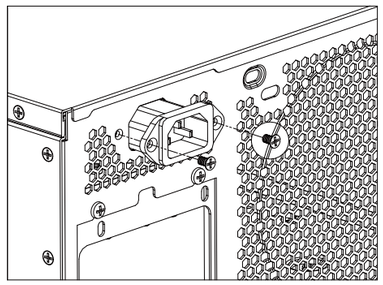
4. Insert SFX PSU into the cage, then secure with screws (Note: To install both primary and secondary PSUs, it’s recommended to purchase PP10 cables to operate both PSUs on a single motherboard)



5. To install the SFX PSU, first remove the plate that sits on the PSU extension adapter pass-through hole with a Phillips screwdriver

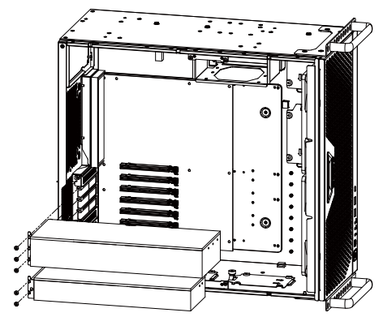


6. Insert the extension adapter cable through the rear of the pass-through hole, then fasten the screws

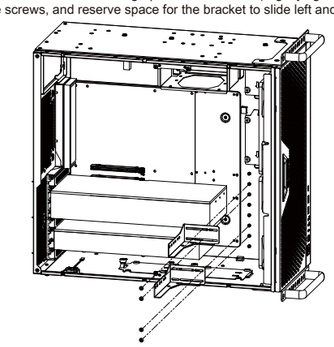


## Nvidia 30 series graphics car brackets installation

1. Install Nvidia 30 series graphics card

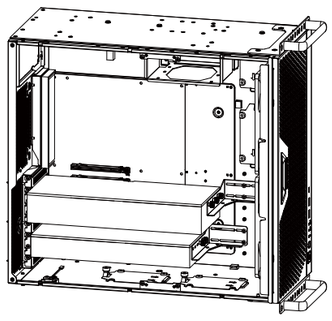


2. Install Nvidia 30 series graphics card bracket (slightly tighten the screws, and reserve space for the bracket to slide left and right



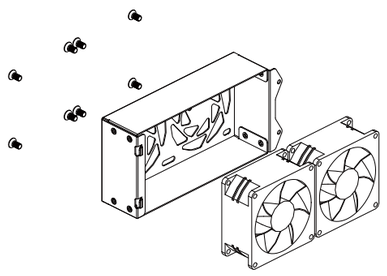
3. Once the graphics card bracket is pushed into position, tighten the thumb screw then the graphics card screw

Note: Nvidia 30 series graphics card bracket supports graphics card length of 285mm~344mm (the total length of the graphics card must exceed the edge of the motherboard)

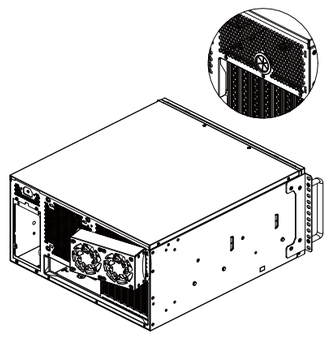


## 80mm external fan cage installation

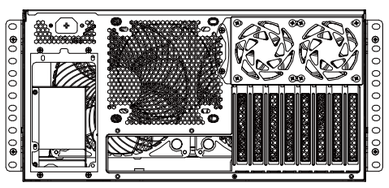
1. Install 80mm fans into the cage then secure with screws



2. Mount the external fan cage to the rear of the chassis (Please run the cable through the pass-through hole first)

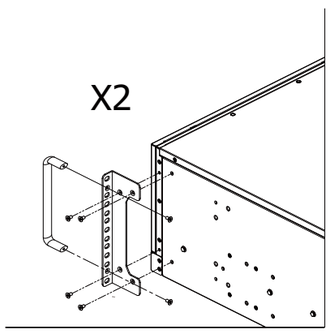


3. Secure with screws

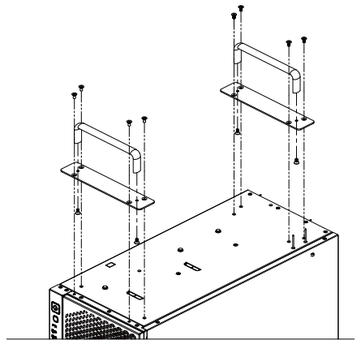


## Vertical orientation installation

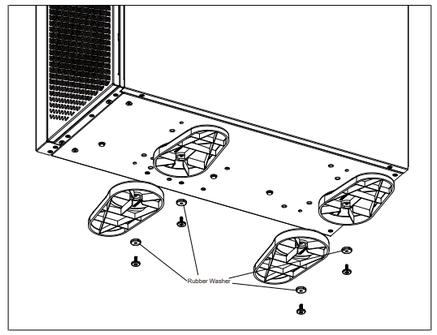
1. Assemble the handle bars with the L-shaped bracket, then secure the assembly on both sides of the chassis



2. Install handle bar onto the flat handle bar bracket

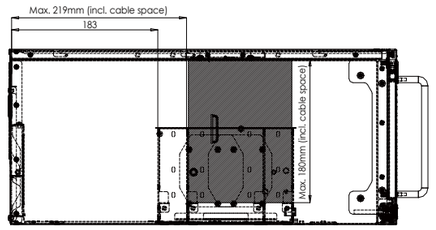


3. Install case feet (including case feet washers)

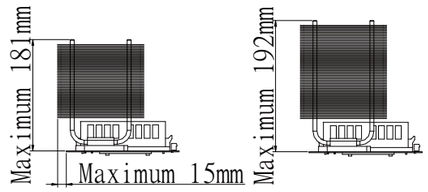



## Component restrictions

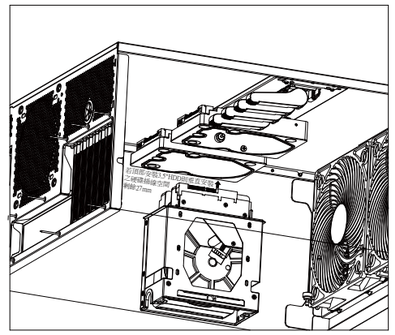
1. When SFX PSU bracket is installed, the depth limitation (including adequate cable space) for the primary PSU is 219mm
1-2. The depth limitation (including adequate cable space) of SFX PSU is 180mm



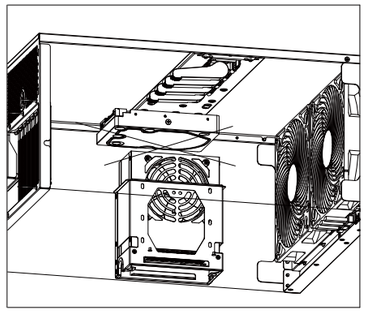

2. CPU Cooler height limit is 181mm, cooler is allowed to protrude the motherboard edge by 15mm, but if the expansion card retainer is remove, the height limitation increases to 192mm




3. If 3.5” HDD are installed on the expansion card retainer, then the 3.5” HDD installed in the below cage are left with 27mm cable clearance

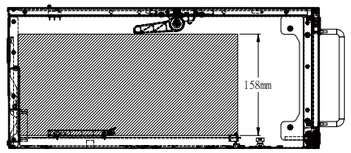


4. If a 3.5” HDD is to be installed on the expansion card retainer, it’s recommended to install a SFX-L PSU due to lack of clearance of cabling

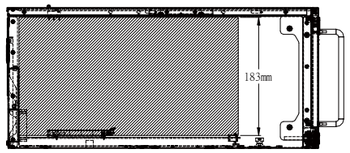


## Expansion card height limitation (Please take into account the power connectors)

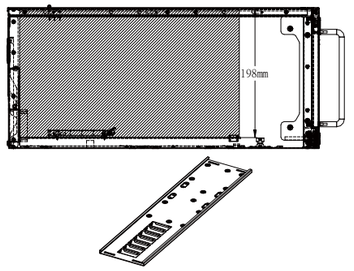
1. Height limitation with expansion card retainer clip buckle installed




2. Height limitation with expansion card retainer clip buckle removed

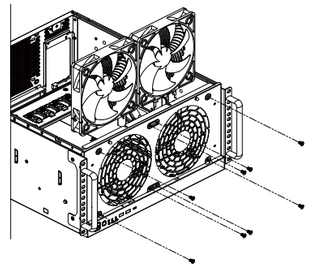



3. Height limitation with expansion card retainer removed

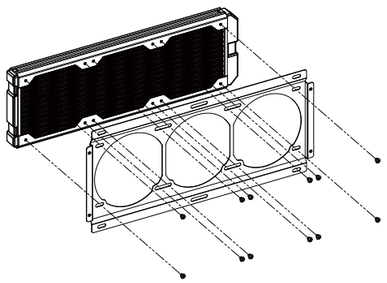



## Radiator bracket installation

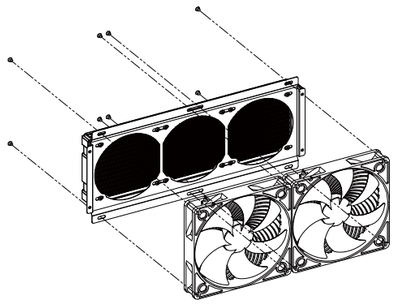
1. To install radiator at the front, please remove the front pre-installed 180mm fans first



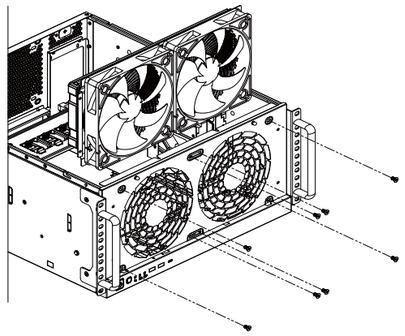
2. Install 120mm, 240mm or 360mm radiator on the bracket



3. Mount the two 180mm fans onto the radiator bracket assembly

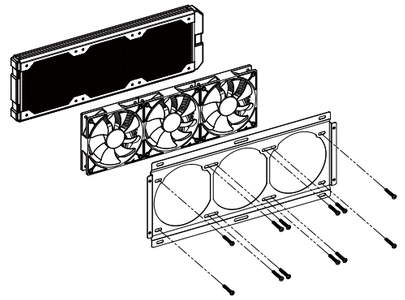


4. Mount the fan and radiator assembly onto the chassis

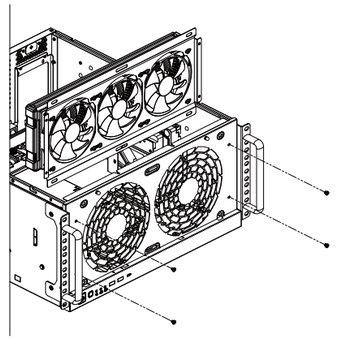


## Radiator bracket installation – when 180mm fans are not used

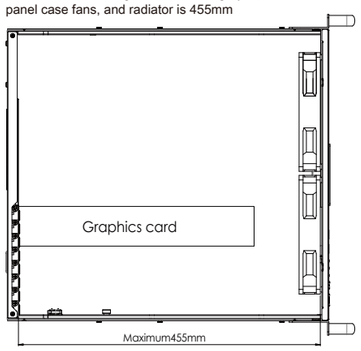
1. Mount the 360mm radiator on to the radiator bracket



2. Secure the radiator assembly on to the front panel



3. The maximum length limitation for graphics cards, front panel case fans, and radiator is 455mm




### *Warranty Information*

This product has a limited 1 year warranty in North America and Australia.
For information on warranty periods in other regions, please contact your reseller or SilverStone authorized distributor.
本产品自购买之日起，于中国地区（不包含澳门，香港特别行政区）享有一年有限责任保固（部分产品为二年，三年或五年）。
详细保固年限请参照官方网站 https://silverstonetek.com.cn/ 公布之产品型号为依据。

#### *Warranty terms & conditions*

1. 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.t
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.
2. 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.
3. 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.
4. Warranty covers only the original purchaser through authorized SilverStone distributors and resellers and is not transferable to a second hand purchaser.
5. You must provide sales receipt or invoice with clear indication of purchase date to determine warranty eligibility.
6. 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 China (support@silverstonetek.com.cn)**
**For all other regions (support@silverstonetek.com)**

有毒有害物质/元素及其化学含量表

| 部件名称 | 铅 (Pb) | 汞 (Hg) | 镉 (Cd) | 六价铬 (Cr(VI)) | 多溴联苯 (PBB) | 多溴二苯醚 (PBDE) |
|---|---|---|---|---|---|---|
| 机壳（金属） | ○ | ○ | ○ | ○ | ○ | ○ |
| 风扇 | ○ | ○ | ○ | ○ | ○ | ○ |
| 线材 | ○ | ○ | ○ | ○ | ○ | ○ |
| 螺丝 | ○ | ○ | ○ | ○ | ○ | ○ |
| 包材 | ○ | ○ | ○ | ○ | ○ | ○ |

本表格依据SJ/T 11364的规定编制
○：表示该有毒有害物质在该部件所有均质材料中的含量均在GB/T 26572 规定的限量要求以下。
×：表示该有毒有害物质至少在该部件的某一均质材料中的含量超出GB/T 26572 规定的限量要求。

10 产品合格证
特别是：铅(P
生产日期，见产品条码

*SilverStone Technology Co., Ltd.*

**www.silverstonetek.com**

support@silverstonetek.com

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