

RVZ03-ARGB

REDEFINE SFF COMPUTING WITH FLAIR



Signature RAVEN styled front panel adorned with addressable RGB light strip



INTRODUCTION

SilverStone RVZ03 is a further evolution of the highly rated RAVEN Z RVZ01-E, a slim form factor case with tremendous capability. It has the same optimized interior that has room for a standard ATX (PS2) power supply and support for some the biggest consumer graphics cards on the market with superb air cooling performance. Designed for use in either vertical or horizontal orientation, it can be placed comfortably in any space-constrained environment that requires a powerful PC. For those looking to build a slim form factor PC with extra flair, the RVZ03's inclusion of addressable RGB lighting and control box bring about another exciting chapter to the famed RAVEN series of computer cases.

SPECIAL FEATURES

- Signature RAVEN styled front panel adorned with addressable RGB light strip
- Mini-ITX motherboard & ATX PSU compatible for wide array of building possibilities
- Support cards up to 13 inches (330mm) to fit most high-end GPUs for compute power far exceeding consoles
- Maximum performance in slim form factor with support for AIO liquid cooling
- Positive air pressure design for excellent cooling/quietness and dust-prevention
- Fits in nearly any environment with horizontal or vertical orientation

SPECIFICATIONS

Model

SST-RVZ03B-ARGB (black)

Material

Reinforced plastic outer shell, steel body

Motherboard

Mini-DTX, Mini-ITX

Drive Bay

Internal 2.5" x 3

Cooling System

Top 1 x 120mm fan, 1500rpm, 18dBA
Bottom 1 x 120mm fan, 1500rpm, 18dBA
1 x 120mm fan slot

Expansion Slot

2

Front I/O Port

USB3.0 x 2, Audio x 1, MIC x 1

Power Supply

Optional PS2 (ATX)

Expansion Card

Compatible up to 13" (330mm) long, width restriction-5.88" (149mm)

Limitation of CPU cooler

83mm

Limitation of PSU

150mm*

Net Weight

4.05kg

Dimension

382mm (W) X 105mm (H) X 350mm (D) , 14 liters

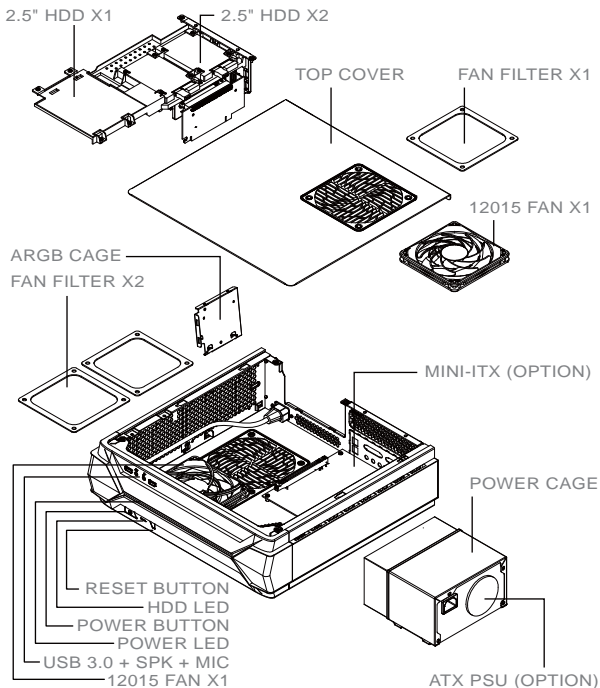
Extra

Support Kensington lock, PCI Express riser card set x 1
ARGB light strip control PCB x 1

* Maximum length for power supply is 150mm but we recommend 140mm deep power supply due to varying connector locations and the unique structure of RVZ03.

Due to the use of internal power cord extension, we recommend not to exceed 800W when powering off a 110V outlet (no limit for 220V).

DISASSEMBLE CHART



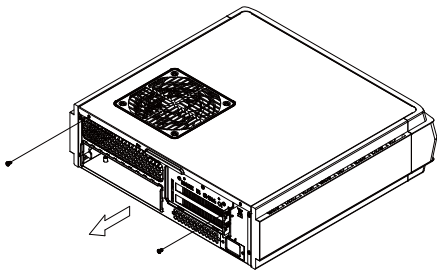
	ITEM	PURPOSE
	RUBBER-A-FEET PAD	FOR VERTICAL USE
	RUBBER-E-FEET PAD	FOR HORIZONTAL USE
	TOP-CARD-BKT	
	BOTTOM-CARD-BKT	
	LOGO-HORIZONTAL-PAD	
	VGA-COMP-BELOW-RUBBER	
	SCREW C 632 X8	SECURE VGA SUPPORT BRACKET
	SCREW D M2 X2	SECURE OPTICAL DRIVE
	SCREW E 632 X5	SECURE MOTHERBOARD, PSU
	SCREW F M3 X4	SECURE 2.5" SSD/HDD
	BAG	
	MANUAL	
	PCI-EXTEND-CARD	
	SCREW A Ø4 X15-M3 X4	SECURE RADIATOR COOLING FAN
	SCREW B Ø4 X15-632 X4	SECURE RADIATOR COOLING FAN
	CONTROLLER CABLE	
	ARGB SIGNAL CONTROLLER	
	CONTROL PANEL CABLE	
	ADOPTER CABLE	

INSTALLATION GUIDE

Before you begin, please make sure that you

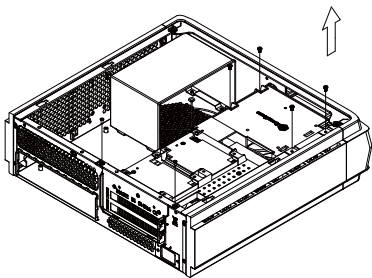
- Have all components collected.
- Check that all components do not have compatibility problems with each other or with the case.
- If possible, assemble the components outside the case first to make sure they are working.
- Keep the motherboard manual ready for reference during installation.
- Prepare a Philips screwdriver.
- Be careful not to strike on glass side panel when removing it from the case.

- 1 Unscrew the screws from the rear of the chassis then remove the top cover



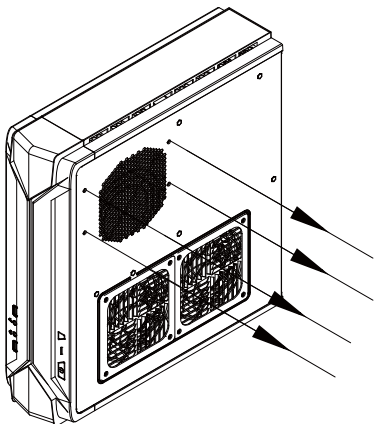
2

Unscrew the screws from the graphics card support bracket then remove it



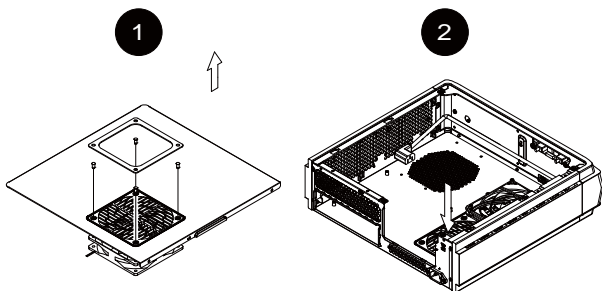
3

Unscrew the screws from PSU bracket then remove it



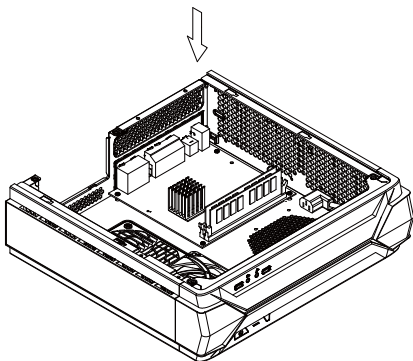
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If you want to use SilverStone NT06-PRO or other similar CPU cooler, please relocate the top panel 120mm fan to the bottom vent near the graphics card area



5

Insert the I/O shield included with your motherboard then install the motherboard into the chassis



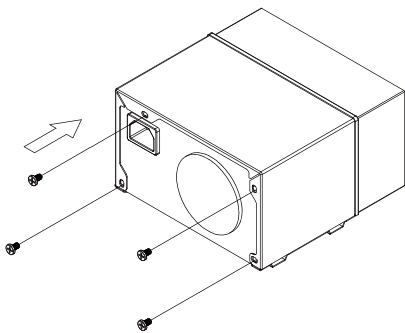
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We recommend at this point connecting all the necessary cables including the SATA cables to the motherboard



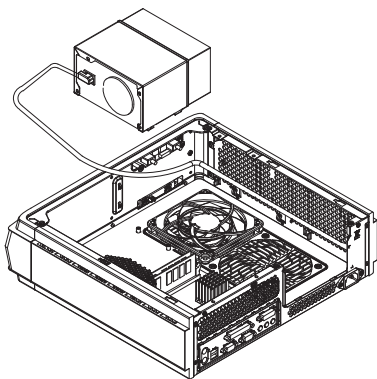
7

Secure the PSU into the PSU bracket



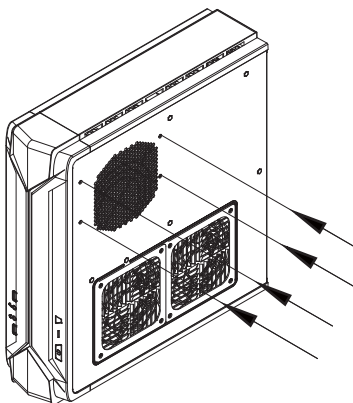
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Place the PSU bracket on top of the chassis then connect the power cord to the PSU

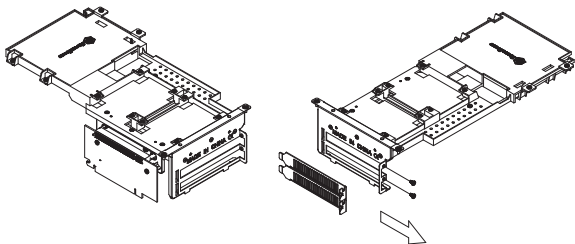


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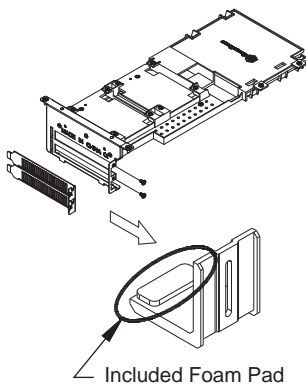
Insert the PSU bracket into its original position and secure with screws



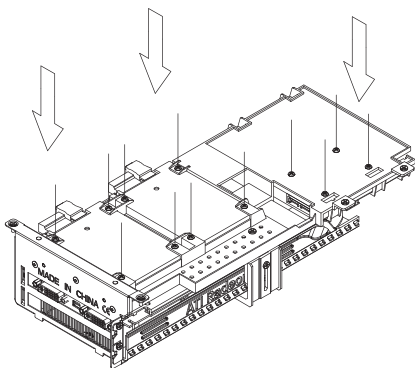
- 10 Remove expansion slot cover and install graphics card into the graphics card support bracket



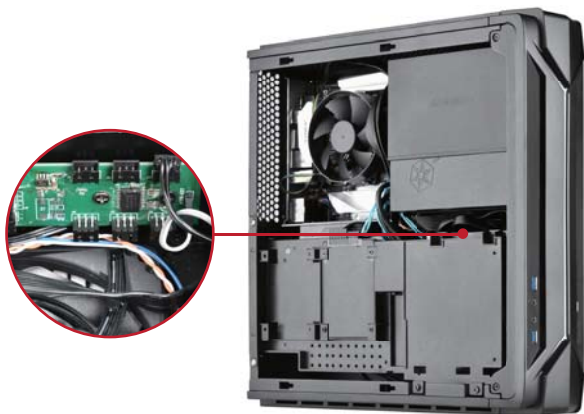
- 11 Depending on the design of your graphics cards, install and adjust the graphics card holder to a proper position to support your card. Adhere included rubber padding according to the height of graphics card's backside, one (for 3mm thick backplate) or two (for no backside components)



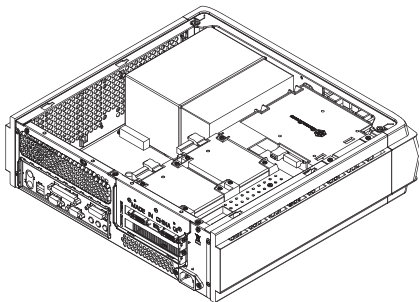
12 Install 2.5" HDD/SSD onto the graphics card support bracket



13 Connect addressable RGB (ARGB) connector. Please refer to ARGB LED connector guide in later pages for more details



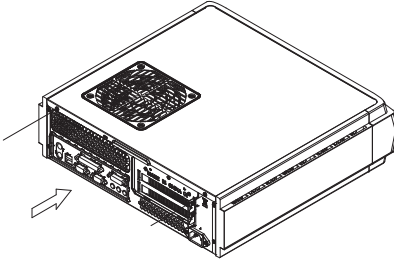
- 14 Install graphics card support bracket into the chassis and connect the power cord to the graphics card if needed



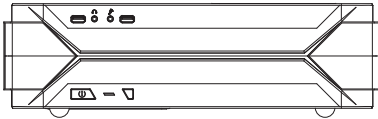
- 15 Make sure all the cables are properly connected



- 16 Place the top cover back onto the chassis and secure with screws



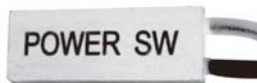
- 17 Depending on requirement or preference, adhere four rubber stands for horizontal use or install the rubber pads for vertical use. Corresponding RAVEN logo for each orientation are included for installation



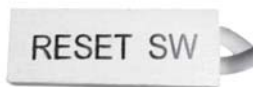
CONNECTOR DEFINITION

(1) Front Panel Connectors Guide

Power Switch



Reset Switch



Power switch and reset switch installation guide

Please refer to the motherboard manuals for the motherboard's "Front Panel Connector" or "System Panel Connector" pin definition. Power switch and reset switch have no polarity, so they can be connected in any orientation.

LED indicators installation guide

HDD LED+



HDD LED-

Please refer to the motherboard manuals for the motherboard's "Front Panel Connector" or "System Panel Connector" pin definition; the white/black wires are negative while other colors are positive wires.

(2) ARGB LED connector guide

RVZ03-ARGB includes custom ARGB controller. It has dual modes that enables you to control lighting effect either via software (provided by motherboard) or hardware.

Software control :

- A. To control lighting via motherboard, make sure it supports addressable RGB (+5V, D, G) signals on its RGB header.
- B. If you have other ARGB devices such as SilverStone's own LS03 light strip or FG122 ARGB fan frame, you may also connect them to RVZ03's ARGB controller, below are installation steps:
 1. Flip the controller switch to "MB" mode
 2. Connect motherboard ARGB signal cable to motherboard
 3. If needed, use included extension cable
 4. When connecting non-SilverStone ARGB products, make sure pin definition and connector orientation are compatible

Hardware control:

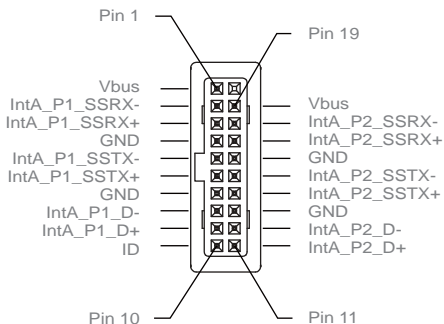
Utilizing the case's reset button to change lighting effects

1. Flip the controller switch to "IC" mode
2. Connect other ARGB devices to RVZ03's ARGB controller
3. When connecting non-SilverStone ARGB products, make sure pin definition and connector orientation are compatible
4. Connect the controller to power supply
5. Be sure not to connect case's reset connector to motherboard as you are going to use reset button for changing ARGB colors and effects from now on
6. When PC is powered, press reset button on the case to change ARGB lighting effects

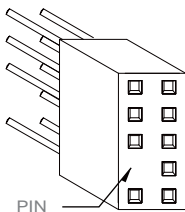
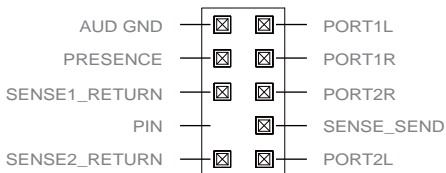
(3) Front I/O connector guide

Below are the front I/O connectors pin definition, please also check your motherboard manual to cross reference with motherboard's front I/O pin headers. SilverStone's I/O connectors are in block type to simplify installation

USB 3.0 CONNECTOR

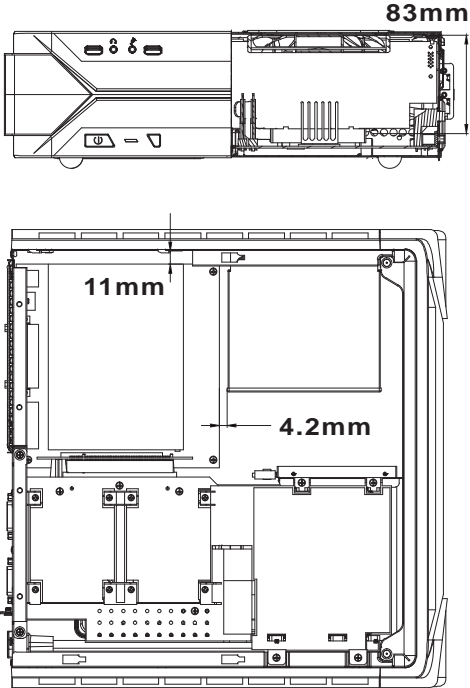


HD CONNECTOR



COMPONENT SIZE LIMITATIONS

(1) CPU cooler height limitation



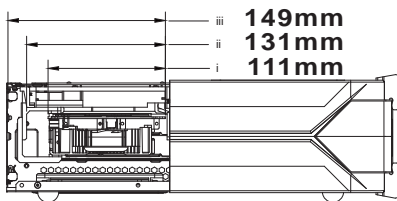
- A. Height limitation: The RVZ03 has 83mm height limitation for CPU cooler
- B. Upper boundary: the cooler can protrude 11mm over the motherboard's top edge
- C. Front boundary: The clearance toward the front of the chassis is 4.2mm

(2) PSU limitation



RVZ03's maximum depth for a standard PS/2 (ATX) power supply is 150mm, but installation of a 150mm deep power supply will require sacrificing a 2.5" drive space and no room for cable connection after installation. So if using a 150mm deep modular power supply, make sure to connect all cables prior to installing it into the case. Power supplies with depth of 140mm or less may have enough room to allow for cable connection after installation so we recommend using 140mm deep modular power supply with flat cables, such as SilverStone's own ST75F-PT

(3) Graphics card/expansion card length limitation

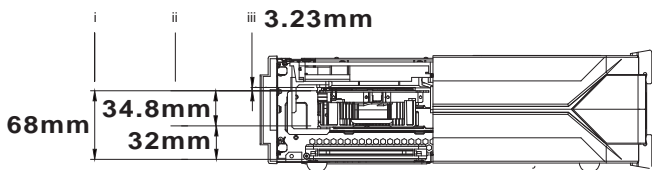


A. Length limitation

RVZ03 can support 13" (330mm) consumer level graphics cards. Please contact us if you find a card that does not fit

B. Width limitation

- (i) The standard width for graphics card is 4.38" (111mm)
- (ii) With the graphics card holder installed, the maximum allowable width for graphics card is 5.16" (131mm)
- (iii) Without the graphics card holder, the maximum allowable width for graphics card is up to 5.88" (149mm)



C. Thickness limitation

- (i) Calculated from the bottom of the graphics card PCB to the top, the total thickness limitation is 68mm
- (ii) With the standard 34.8mm-thick dual slot graphics card installed, the maximum thickness of the fans is 32mm
- (iii) The thickness of the components on the back of the graphics card is limited to 3mm in the area supported by the graphics card holder; the thickness limitation for the rest of the components is 10mm

OPTIMAL THERMAL PERFORMANCE LAYOUT



If you use graphics card with omni-direction or open air cooler, we recommend having two case fans on the bottom vents

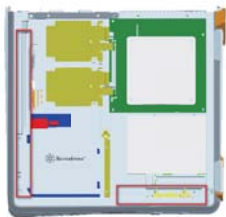
VERTICAL/HORIZONTAL PLACEMENT

- A. Because most vents are situated on the bottom, placing the RVZ03 vertically will result in better temperature than in horizontal position
- B. When using the case horizontally, please be sure of adhering rubber stands to the bottom

RECOMMENDATION FOR WATER COOLING



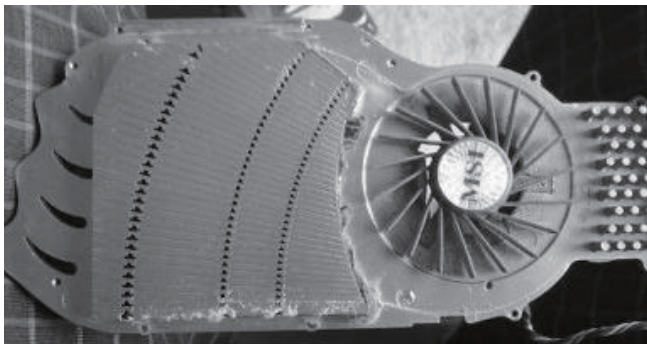
SilverStone TD03-SLIM is compatible with RVZ03 as an option if an all-in-one (AIO) liquid cooler is needed



Cable routing

There is some space between the front panel and the side of the graphics card reserved for the cable routing

MAINTENANCE AND UPGRADE



The RVZ03's positive air pressure design is an effective configuration that will reduce dust buildup inside the case. Small air particles or lint will accumulate over time on intake filters instead of on the components inside the case. To maintain excellent cooling performance for years to come, we recommend cleaning all fan filters regularly every three months or half a year (depending on your environment).

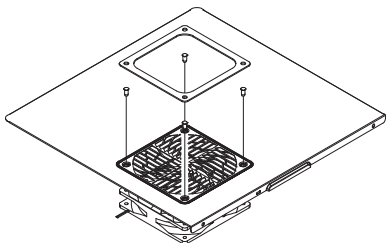
The RVZ03 includes ultra-fine magnetic filters (model: FF123) which can be easily removed. If you accidentally loose/damage filters or need additional ones for backup, please contact your local SilverStone retailers or distributors for purchasing information:

https://www.silverstonetek.com/wheretobuy_all.php

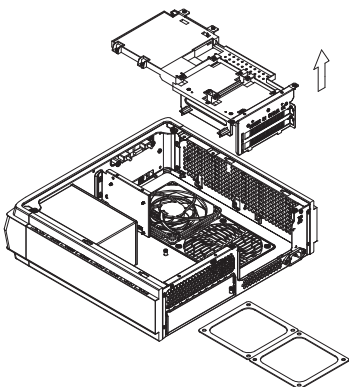
https://www.silverstonetek.com/wheretobuy_all.php

FAN REMOVAL GUIDE

- 1 The fan on the top cover can be dismantled after removing the top cover



- 2 The graphics card holder needs to be removed before dismantling the fans on the bottom vents. We recommend removing the filters before dismantling the fans.



PROTECT YOUR COMPUTER

Kensington Security Slot

Note: Cable security lock is not included with RVZ03

A lock and cable can be purchased on the market for use with the Kensington security slot located on rear of RVZ03 to prevent removal of the entire computer or top cover

Caution: Please check for compatibility before purchasing the lock and cable for use with RVZ03's Kensington security slot

Q&A

Q: Does RVZ03 fit in the Sugo Pack?

A: Yes, it does, with room to spare!

Q: Can the NT06-PRO be used without fan in RVZ03?

A: We do not recommend it

Q: Everything is properly installed; why does it not start up?

A: If your PSU has an AC switch, make sure the switch is at the "ON" position

WARRANTY

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.

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.

 - 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.

- 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.

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