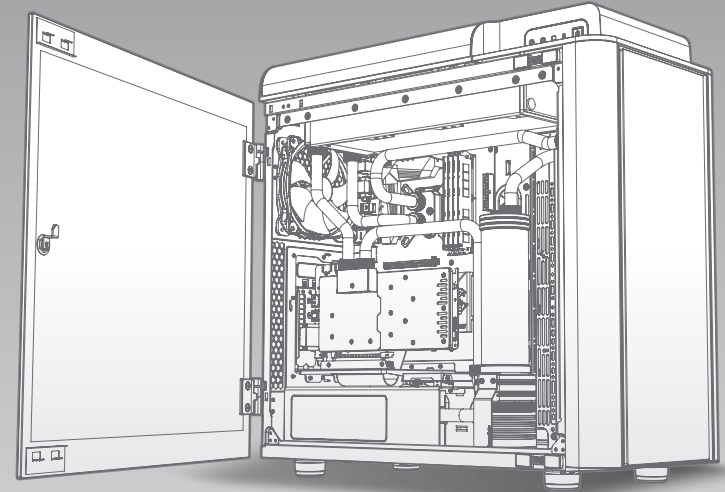




Picture is for reference only

LEVEL 20 GT

User's Manual
Benutzerhandbuch
Mode d'emploi
Manual del usuario
Manuale dell'utente
Manual do Utilizador

安裝說明書
用戶手冊
ユーザーズマニュアル
Руководство пользователя
kullanıcı elkitabı
(EEE Yönetmeliğine Uygundur)
คู่มือการไ้



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TT Premium



TT Premium

To continue achieving the corporate mission of delivering the perfect user experience, Thermaltake developed "TT Premium" with the essence of combining supreme quality products with a new logo design. TT Premium is far more than just a guarantee of quality. Behind the name, it represents the passion in DIY, Modding and Thermaltake's desire to be the most innovative brand in the PC hardware market. To satisfy the demand of the high-end PC users, TT Premium follows its core values of Excellent Quality, Unique Design, Diverse Combinations and Boundless Creativity to provide a high performance PC product for every enthusiast. <http://tppremium.com>

Tt LCS-Liquid Cooling Support Certification



Tt LCS Certified is a Thermaltake exclusive certification applied to only products that pass the design and hardcore enthusiasts standards that a true LCS chassis should be held to. The Tt LCS certification was created so that we at Thermaltake can designate to all power users which chassis have been tested to be best compatible with extreme liquid cooling configurations to ensure you get the best performance from the best features and fitment.

Join Tt Community To Receive Benefits



Dear Valued Customer,

Thank you for choosing Thermaltake.

As a new user we value your thoughts and opinions and your feedback is important to us. We at Thermaltake would like to use this opportunity to invite you to join our Community Forums. Register today to start enjoying the full benefits of our community.



Benefits of being a member:

- Quick and responsive user support
- Receive help and advice with new builds
- Keep up to date with new product releases
- Share your thoughts and builds with the community
- Enter monthly contests and giveaways

Brand official website
<http://www.thermaltake.com/>

Global Facebook
<https://www.facebook.com/ThermaltakeInc>

Taiwan Facebook
<http://www.facebook.com/ThermaltakeTW>

Global community forums
<http://community.thermaltake.com>

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Chapter 3. Leads Installation Guide

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Specification

Model	Level 20 GT	Level 20 GT RGB Plus
Case Type	Full Tower	
Dimension (H*W*D)	580 x 294 x 592 mm (22.9 x 11.6 x 23.3 inch)	
Side Panel	5mm Tempered Glass x 4 (Left & Right & Front & Top)	
Cooling System	Rear (exhaust) : 140 x 140 x 25 mm Ring LED Blue fan (1400rpm, 28dBA) (1000rpm, 22dBA with LNC) Front (intake) : 200 x 200 x 30 mm Ring Plus RGB fan (500 ~ 1000rpm, 29.2dBA) x 2 Rear (exhaust) : 140 x 140 x 25 mm Ring Plus RGB fan (500 ~ 1400rpm, 28dBA)	
Drive Bays - Accessible - Hidden	2.5" x 4 or 3.5" x 4 (HDD Rack) 2.5" x 6 or 3.5" x 3	
Expansion Slots	8	
Motherboards	6.7" x 6.7" (Mini ITX), 9.6" x 9.6" (Micro ATX), 12" x 9.6" (ATX), 12" x 13" (E-ATX)	
I/O Port	USB 3.0 x 2, USB 2.0 x 2, HD Audio x 1, Type-C x 1	
Fan Support	Front: 3 x 120 mm, 3 x 140 mm, 2 x 200 mm Top: 3 x 120 mm, 3 x 140 mm, 2 x 200 mm Rear: 1 x 120 mm, 1 x 140 mm Bottom: 2 x 120 mm	
Radiator Support	Front: 1 x 360 mm, 1 x 420 mm, 1 x 360 mm (For 200 mm fan) Top: 1 x 360 mm, 1 x 420 mm, 1 x 360 mm (For 200 mm fan) Rear: 1 x 120 mm, 1 x 140 mm Right: 1 x 360 mm, 1 x 420 mm (AIO: 1 x 360 mm, 1 x 280 mm) Bottom: 1 x 240 mm	
Clearance	CPU cooler height limitation: 200 mm VGA length limitation: 310 mm (With HDD Rack) 410 mm (Without HDD Rack) PSU length limitation: 220 mm (Without Bottom Fan)	

Accessory

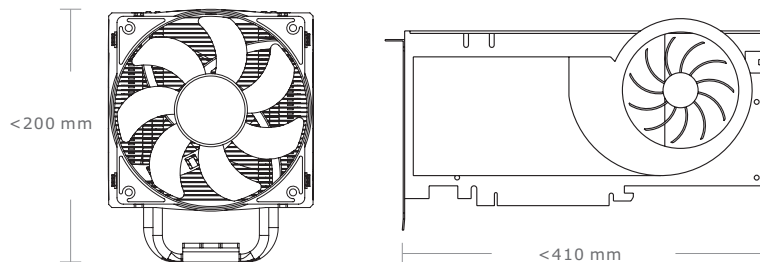
Case accessory

Figure	Part Name	Q'ty	Use For
	Stand-off #6-32 x 6.5 mm	8	For Motherboard
	Screw #6-32 x 6 mm	4	For PSU
	Screw #6-32 x 5 mm	50	For MB / 3.5" HDD
	Screw M3 x 5 mm	40	For SSD / 2.5" HDD
	Nut setter	1	For MB Stand-off
	Screw Ø5 x 12 mm	8	For Case Fan
	Thumb Screw #6-32 x 5 mm	2	Backup
	Screw M3 x 39 mm	16	For 200 mm Fan
	Screw Ø3 x 8 mm	1	Strip stand
	PSU Cover strip stand	1	VGA bracket base
	PSU strip stand	1	VGA bracket base
	200 mm Fan stand	4	For Top 200 mm Fan
	Rubber Ø14 x 5 mm	4	For PSU
	Cable Ties	10	Cable Management
	Buzzer	1	Motherboard Alarm
	Key	2	Glass side panel

Tt RGB Plus accessory (RGB Plus edition only)

Code	Figure	Part Name	Q'ty
A		Fan	3
B		Controller	1
C		Controller Cable	1
D		Bridge Cable	1
E		Power Cable	1
F		Velcro	1

Warning and Notice



Warning!!

CPU Cooler Height Limitation:

Please ensure that your CPU cooler does NOT exceed 200 mm (7.9 inches) height.

VGA (Add-on card) Length Limitation:

Please ensure that your VGA (Add-on card) does NOT exceed 410 mm (16.14 inches) length.

Warnung!!

CPU-Kühler Höhenbeschränkung:

Bitte stellen Sie sicher, dass Ihr CPU-Kühler 200 mm (7,9 Zoll) Höhe nicht überschreitet.

VGA (Add-on-Karte) Längenbeschränkung:

Bitte stellen Sie sicher, dass Ihre VGA (Add-on-Karte) 410 mm (16,14 Zoll) Länge nicht überschreitet.

Avertissement !

Limite de hauteur du ventilateur de CPU :

Vérifiez que la hauteur du ventilateur de CPU ne dépasse pas 200 mm.

Limite de longueur de la carte (complémentaire) VGA :

Vérifiez que la longueur de votre carte (complémentaire) VGA ne dépasse pas 410 mm

Precaución

Limitación de altura del refrigerador de CPU:

Asegúrese de que la altura de su refrigerador de CPU no excede los 200 mm (7,9 pulgadas).

Limitación de longitud de la tarjeta de vídeo (adicional):

Asegúrese de que la longitud de su tarjeta de vídeo (adicional) no excede los 410 mm (16,14 pulgadas).

Attenzione!

Limitazione altezza dissipatore CPU:

Assicurarsi che l'altezza del dissipatore CPU NON superi 200 mm (7,9 pollici).

Limitazione lunghezza VGA (scheda aggiuntiva):

Assicurarsi che la lunghezza del VGA (scheda aggiuntiva) NON superi 410 mm (16,14 pollici).

Atenção!!

Limite de altura para o dissipador do CPU:

O limite de altura para o dissipador do CPU é 200 mm (7,9 polegadas).

Limite de comprimento para VGA (placa gráfica):

O limite de comprimento para VGA (placa gráfica) é 410 mm (16,14 polegadas).

警告 !!

CPU 冷却器的高度限制：

請確保 CPU 冷却器的高度不超過 200 mm (7.9 英寸)。

VGA (附加介面卡) 的長度限制：

請確保 VGA (附加介面卡) 的長度不超過 410 mm (16.14 英寸)。

警告 !!

CPU 散热器高度限制：

请确保 CPU 散热器的高度不超过 200 mm (7.9 英寸) 。

VGA (附加卡) 长度限制：

请确保 VGA (附加卡) 的长度不超过 410 mm (16.14 英寸) 。

警告

CPUクーラーの高さ制限:

CPUクーラーの高さが200mmを超えていないことを確認してください。

VGA (アドオンカード) の長さ制限:

VGA (アドオンカード) の長さが410mmを超えていないことを確認してください。

Внимание!

Ограничение по высоте охладителя ЦП

Убедитесь, что высота охладителя ЦП (центрального процессора) НЕ превышает 200 мм (7,9 дюйма).

Ограничение по длине видеокарты VGA (плата расширения)

Убедитесь, что длина видеокарты VGA (плата расширения) НЕ превышает 410 мм (16,14 дюйма).

Uyarı!!

CPU Soğutucu Yükseklik Sınırlaması:

Lütfen CPU soğutucunuzun yüksekliğinin 200mm'yi (7,9 inç) GEÇMEDİĞİNDEN emin olun.

VGA (Eklenli kart) Uzunluk Sınırlaması:

Lütfen VGA'nızın (Eklenli kart) uzunluğunun 410mm'yi (16,14 inç) GEÇMEDİĞİNDEN emin olun.

คำเตือน!!

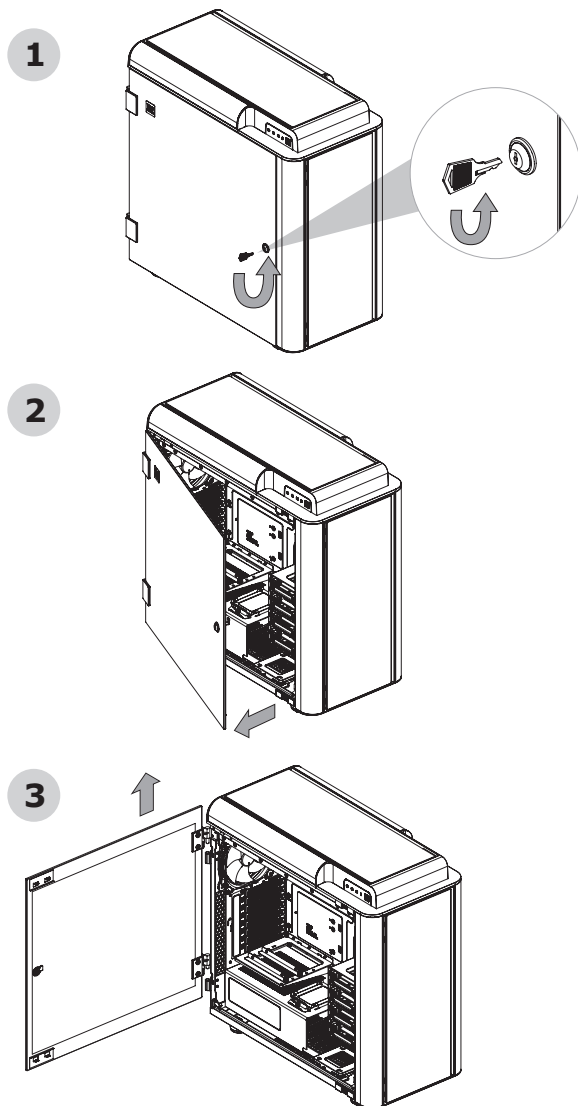
ขีดจำกัดความสูงสำหรับฮีตซิงก์ของ CPU:

ขีดจำกัดความสูงสำหรับฮีตซิงก์ของ CPU คือ 200 มม. (7.9 นิ้ว)

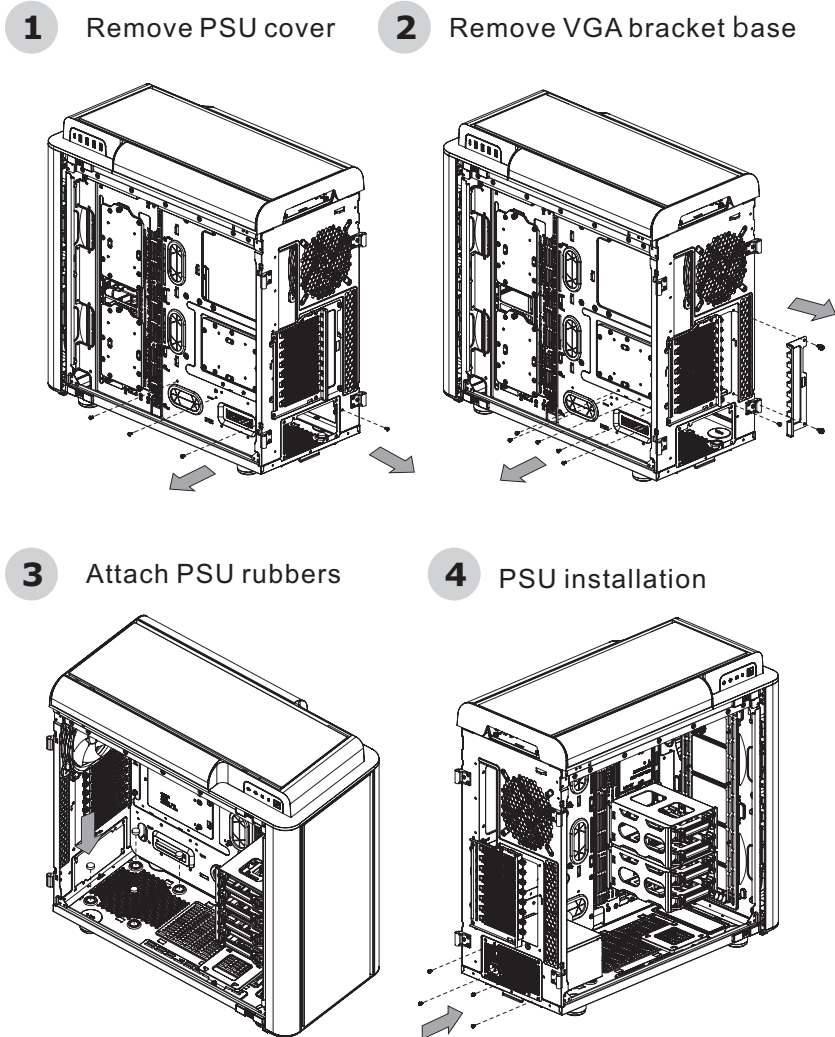
ขีดจำกัดความยาวสำหรับ VGA (การ์ดแสดงผล):

ขีดจำกัดความยาวสำหรับ VGA (การ์ดแสดงผล) คือ 410 มม. (16.14 นิ้ว)

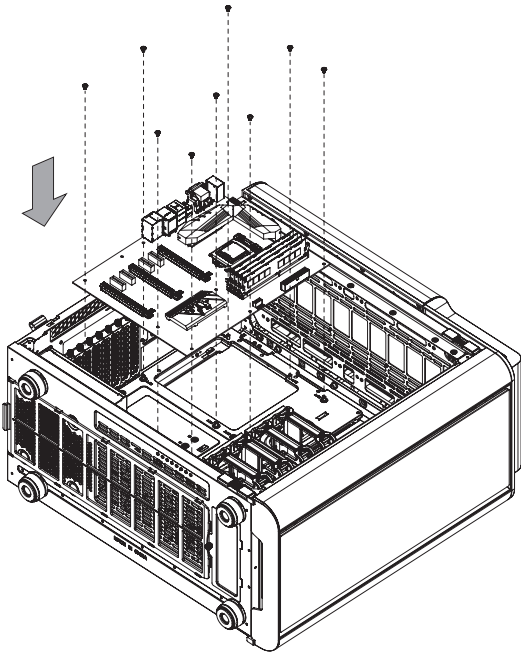
Side Panels Disassembly



Power Supply Unit (PSU) Installation



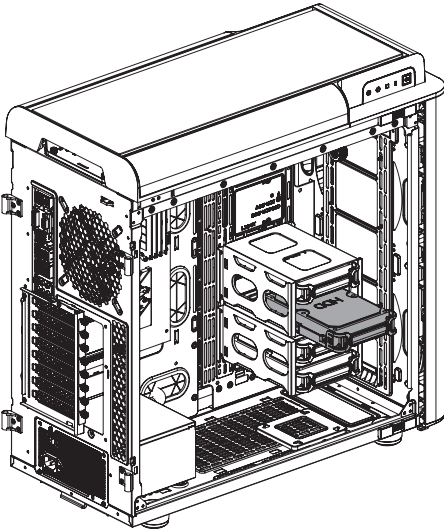
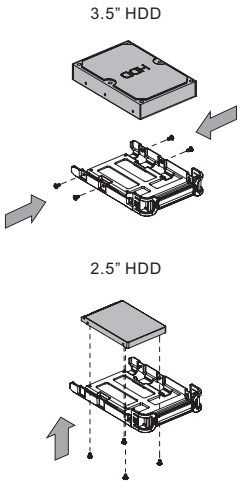
Motherboard Installation



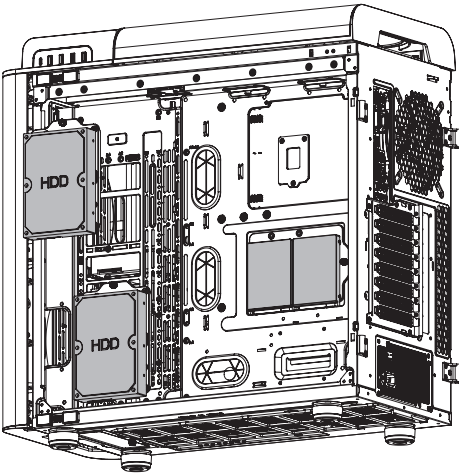
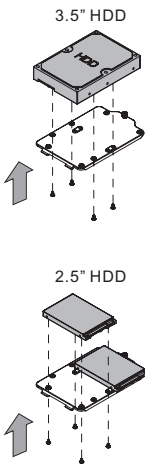
Note:

3.5" & 2.5" HDD Installation

In front of M/B Tray

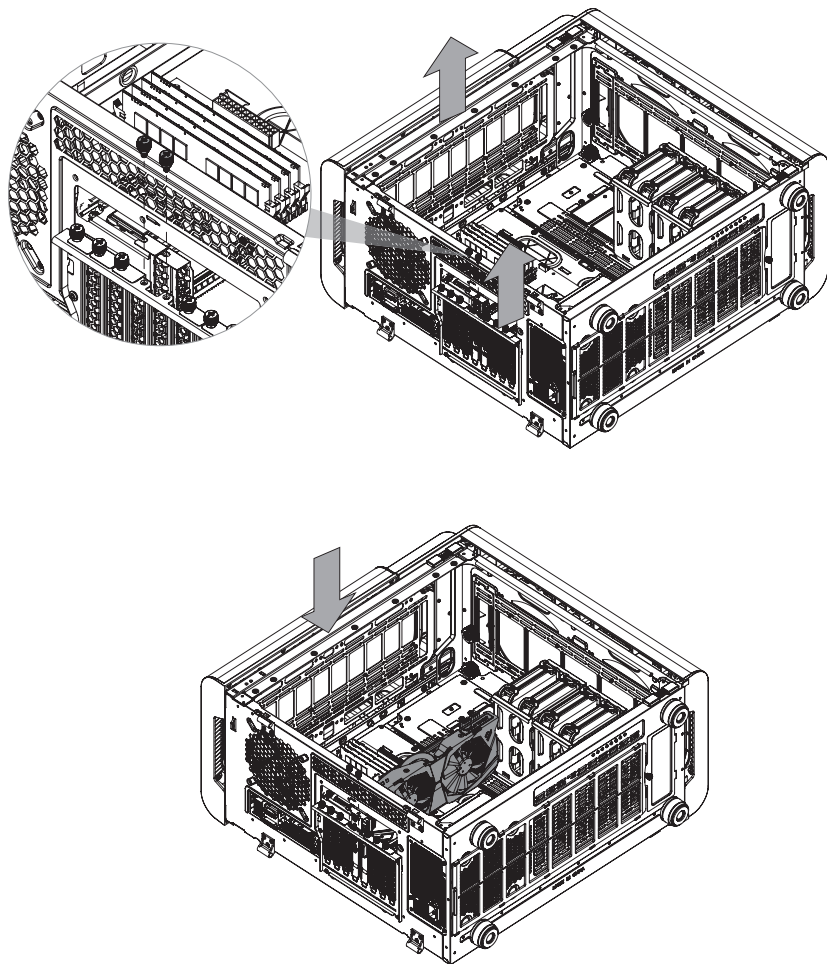


Behind M/B Tray B



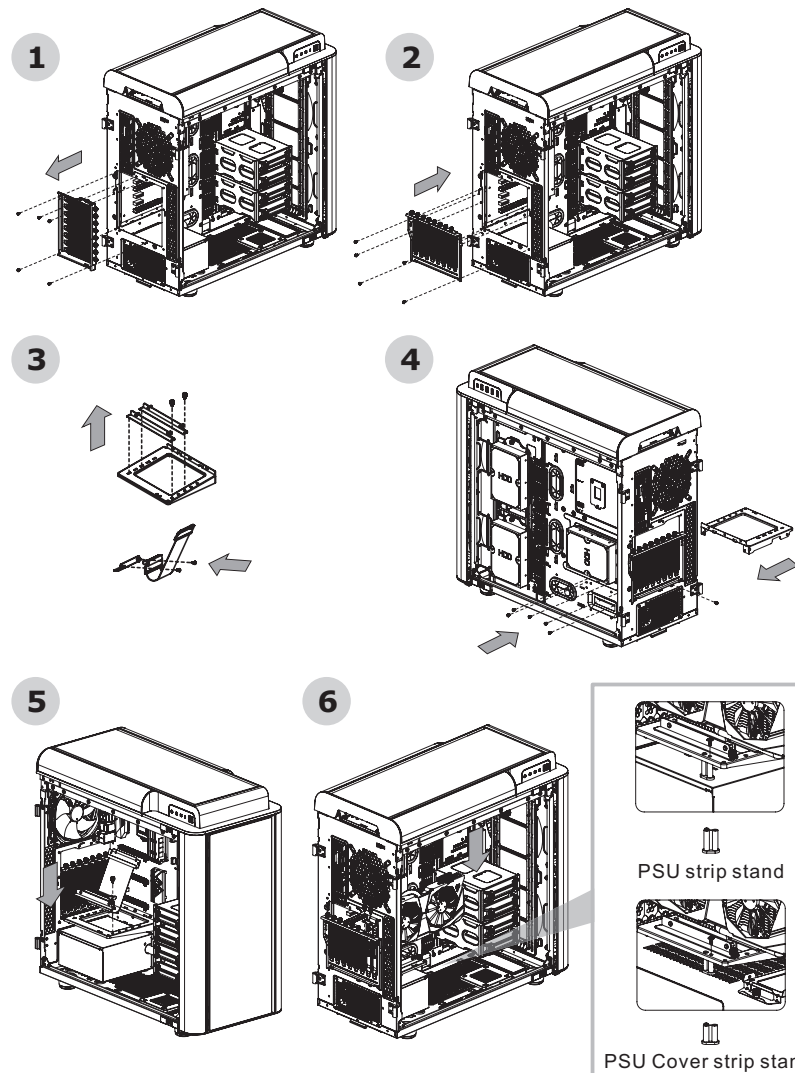
PCI Card Installation

TypeA Traditional GPU installation

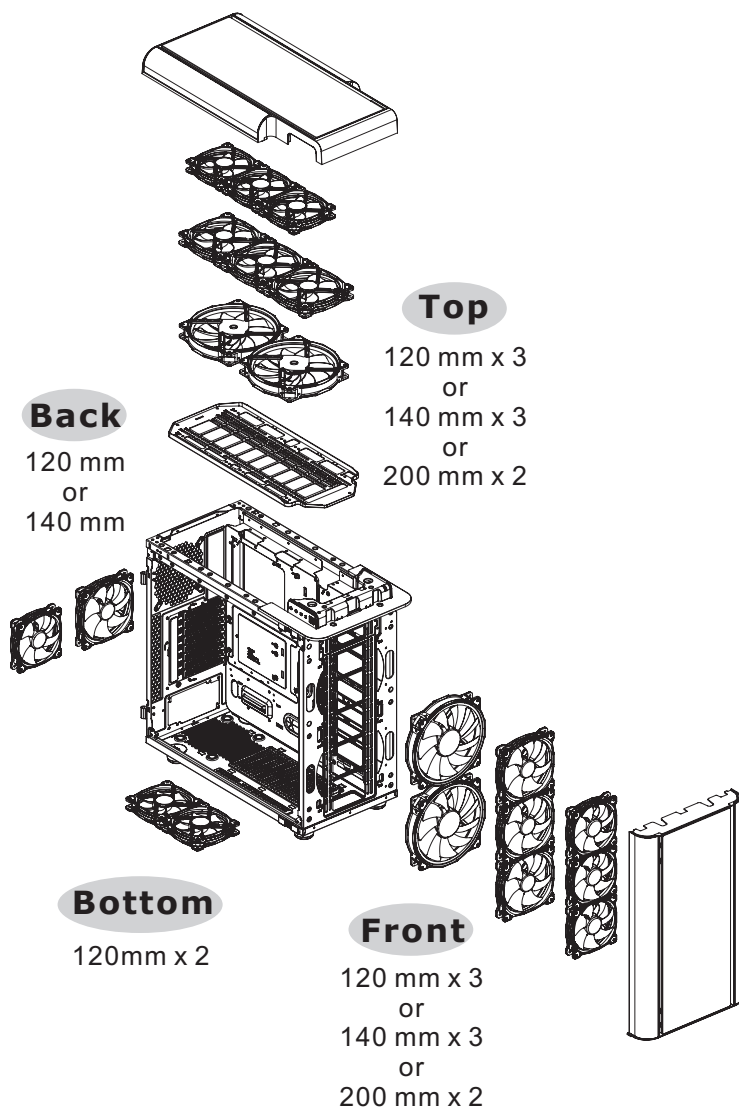


TypeB (Optional) Vertical GPU installation

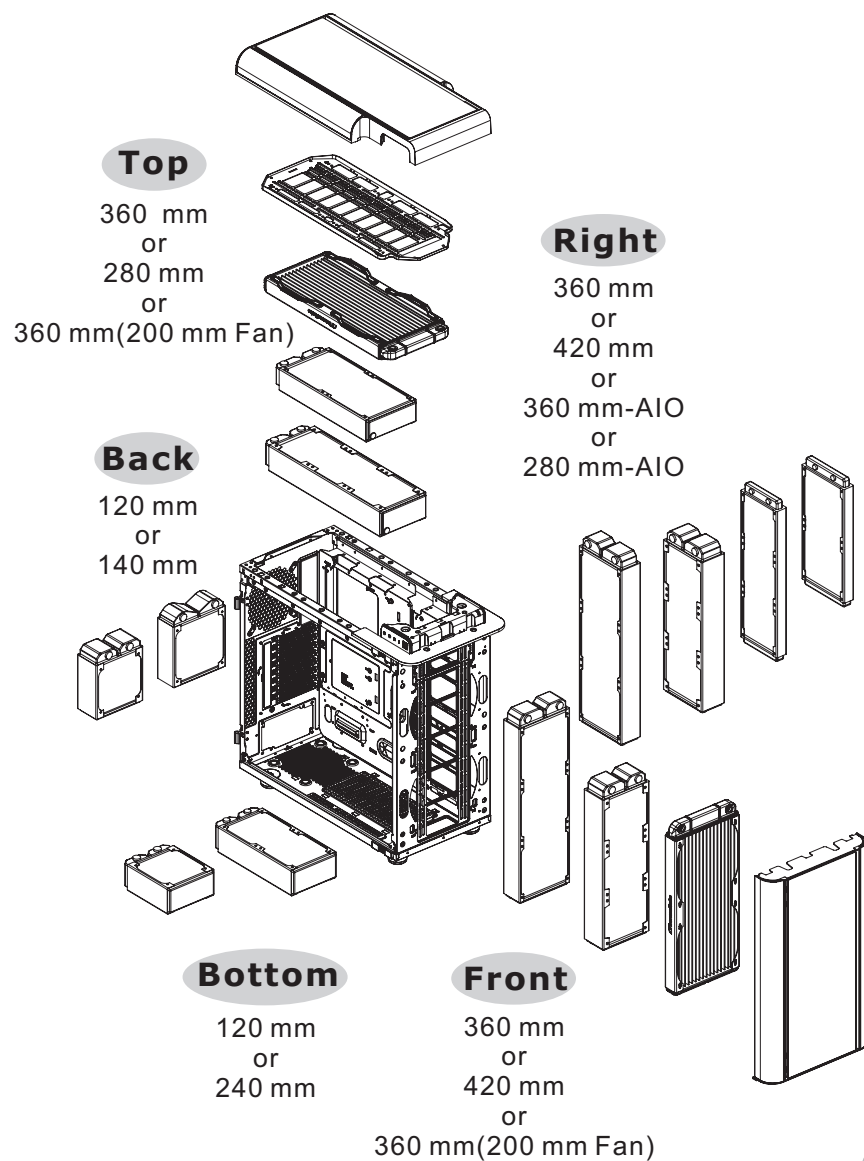
※Riser Cable is not included



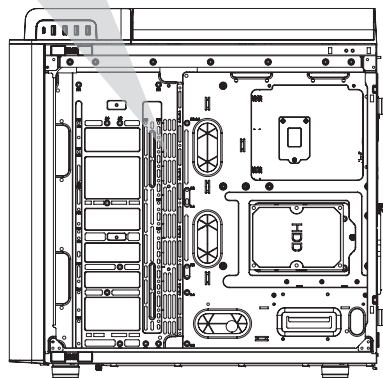
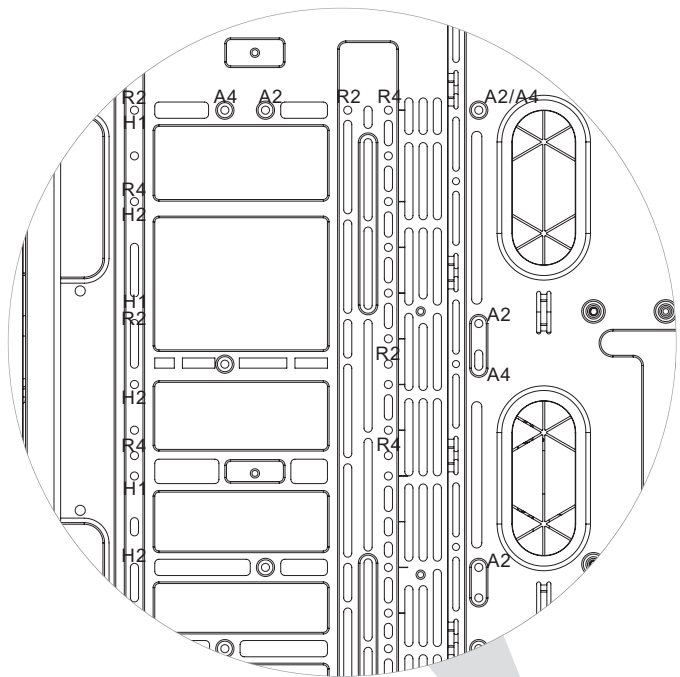
Air Cooling Installation



Liquid Cooling Installation



Liquid Cooling Installation - Right side



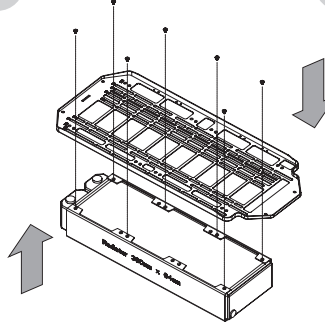
R2: Radiator 120 mm series
 R4: Radiator 140 mm series
 A2: AIO Radiator 120 mm series
 A4: AIO Radiator 140 mm series
 H1,H2: HDD Cage Location

Liquid Cooling Installation - 200mm Fan

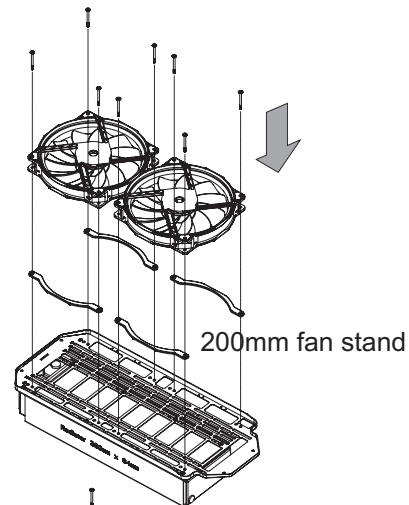
Scenario 1

360 mm Radiator (120 mm series)
 + 200 mm Fan x 2

1

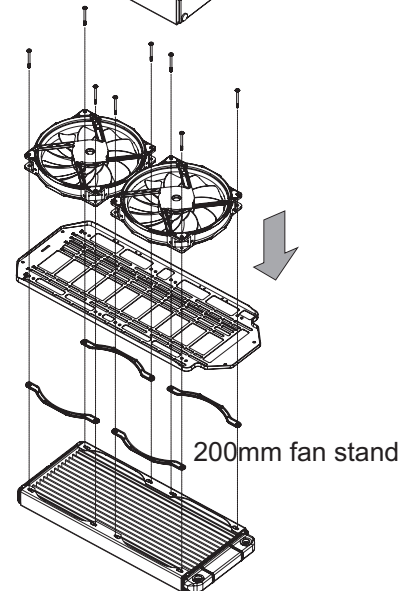


2



Scenario 2

360 mm Radiator (180 mm series)
 + 200 mm Fan x 2



Max Radiator Installation Notice

Top Radiator Installation Notice

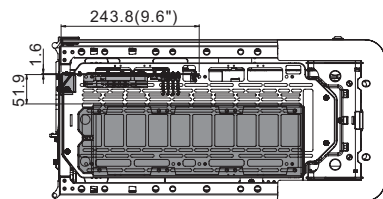
※Please consult radiator & memory height for proper installation

安裝前請參考水冷排與記憶體高度

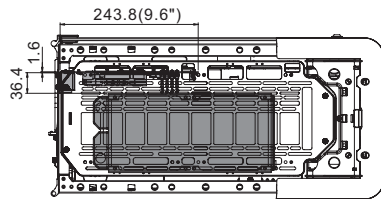
Radiator: 360 mm x 64 mm (T/F)

Radiator: 280 mm x 55 mm (T)
420 mm x 55 mm (F)

Offset

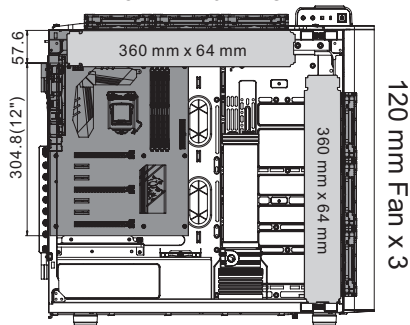


Offset



Top

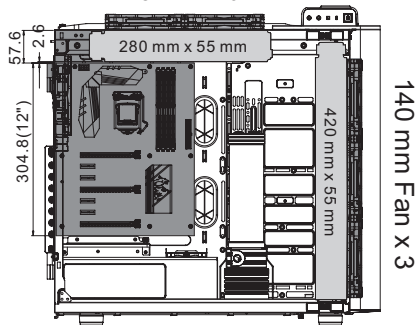
120 mm Fan x 3



Front

Top

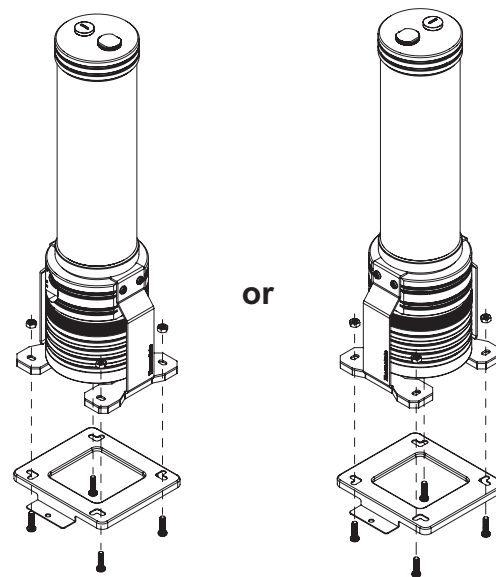
140 mm Fan x 2



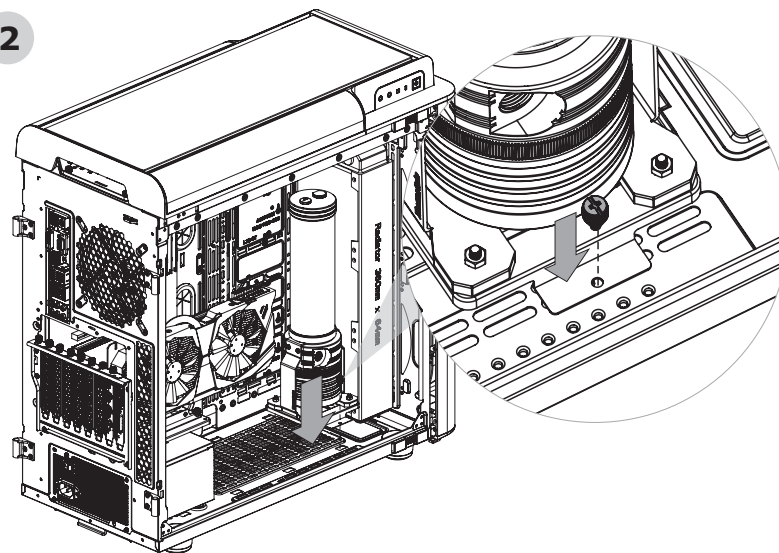
Front

Pump Installation

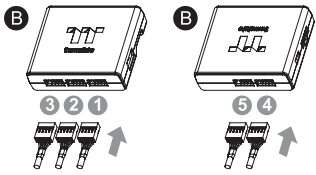
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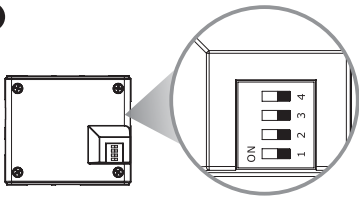


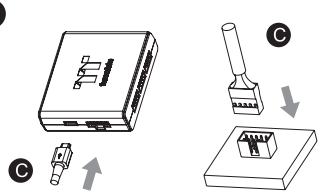
2

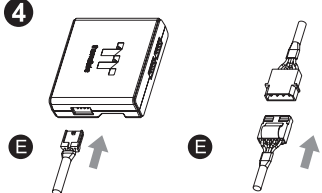


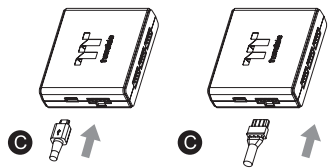
Installation Guide

- 1**


Connect the cables onto the controller.
- 2**


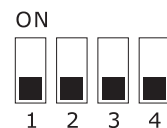
Set the DIP switch on the back side of the controller to assign the number of the controller.
- 3**


Connect the controller cable onto the mainboard (USB 2.0 9 pin) and controller.
- 4**


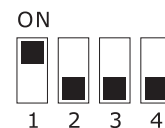
Connect the power cable to the 4 pin Molex connector and controller.
- 5**


(Another controller is optional)

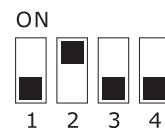
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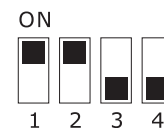
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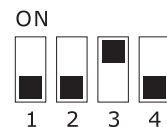
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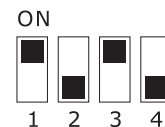
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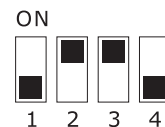
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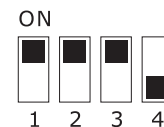
NO.6



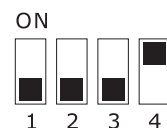
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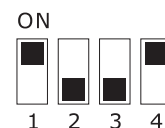
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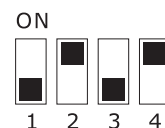
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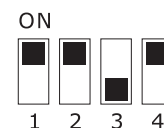
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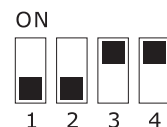
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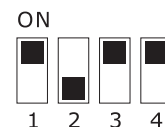
NO.12



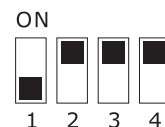
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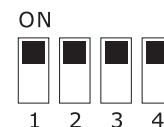
NO.14



NO.15

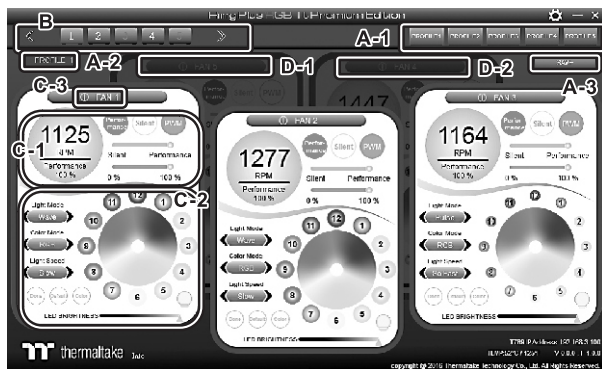


NO.16



Please download software from Thermaltake Official website.
search " **Riing Plus RGB** " on the official website.
OS compatibility: Windows 7 / 8 / 8.1 / 10

1. Software User Interface - Riing Plus Fans



A. TT RGB PLUS software Profile Setting

A-1 Set up a profile: Choose a Profile and set up the Fan Speed Mode and LED Lighting Mode, then click the SAVE icon(A-3) to store your settings to the software.

A-2 Save a profile to controller: Select a profile and a controller, then click the Save icon to assign the profile to the controller.

B. Follow the Installation Guide step 3, you can set up the number of the controller

C. Fan Speed Mode and LED Lighting Mode

Full Lighted / Wave / Pulse / Ripple / Microphone / Sound effect / RGB Spectrum / Flow

C-1 Performance Mode: 500~1500RPM (Duty cycle 0%~100%)

Silent Mode: 500~900RPM (Duty cycle 0%~50%)

PWM Mode: The PWM function can be turned off and set the fan speed manually

C-2 LED Selection: set up the LEDs lighting, color, and speed.

Light Mode: Choose a lighting mode

Color Mode: Choose the LEDs color

Light Speed: Set up the speed of the LEDs light

LED Spot & Color Palette: Choose the color of each of the individual LEDs by clicking the color palette

Done: Save your setting

Default: Reset the LED setting back to the default

Brightness: Drag the mouse to adjust LED light brightness.

LED On/Off: Click the LED Light icon to turn on or off the LED light

RGB Color Code: Enter the Decimal Code of Red, Green, and Blue to set the LEDs color

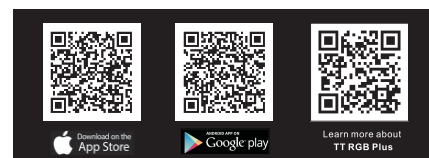
C-3 Fan On/Off: User can switch off the fan speed and led control function in the software if the fan is not plug into the controller.

D-1 & D-2. Fan Selection: click the control panel to rotate it to the front

3. Mobile APP Connection Password

To connect the TT RGB Plus APP, please connect the PC to your wireless first, and click the Password setting under the software setting menu, set up your connection password. The TT RGB Plus APP will ask for your password every time when starting the APP.

For more information please visit www.thermaltake.com



Note:

Thermaltake Power Supply Series (Optional)



VR READY
TT POWER

What is Smart Power Management (SPM)?

Smart Power Management (SPM) is a cloud-based software that seamlessly integrates three intelligent platforms – DPS G PC APP 3.0, DPS G Smart Power Management Cloud 1.0 and DPS G Mobile APP 1.0 – and compiles key statistics about your PC into detailed charts and breakdowns for your instant PC status view and management. With easy access to SPM through your PC or mobile devices, whether you are outside or indoors, enjoy taking full control of your build anytime, anywhere!



Thermaltake has several power supply product lines; please refer to our official website and Facebook Fan Page for more detail information!

Brand official website:

<http://www.thermaltake.com/>

Global Facebook :

<https://www.facebook.com/ThermaltakeInc>

Taiwan Facebook

<https://www.facebook.com/ThermaltakeTW>



Learn more about
SPM

Tt RGB Plus Ecosystem



Tt RGB Plus Software

Thermaltake's patented software to synchronize TT RGB PLUS products with addressable LEDs.



Tt AI Voice Control

Give you full control over the TT RGB PLUS products with your voice.



Download on the
App Store



GET IT ON
Google play



Learn more about
TT RGB Plus

Internal USB Connection

English

Leads Installation Guide

Case LED Connection / On the front of the case, you can find some LEDs and switch leads. Please consult your user manual of your motherboard manufacturer, then connect these leads to the panel header on the motherboard.

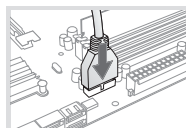
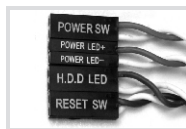
USB 2.0 Connection / Please consult your motherboard manual to find out the section of "USB connection".

USB 3.0 connection /

1. Make sure your motherboard supports USB 3.0 connection.
2. Connect the USB 3.0 cable to the available USB 3.0 port on your computer.

Audio Connection / Please refer to the following illustration of Audio connector and your motherboard user manual.

Please select the motherboard which used AC'97 or HD Audio(Azalia),(be aware of that your audio supports AC'97 or HD Audio (Azalia)) or it will damage your device(s).



USB 3.0 Connection

L-OUT		SENSE2
SENSE		KEY
R-OUT		SENSE1
MIC-POWER		PRESENSE
MIC-IN		GND

AUDIO AZALIA Function

L-OUT			L-RET
			KEY
R-OUT			R-RET
MIC-POWER			
MIC-IN			GND

AUDIO AC'97 Function

Note:

Note:

24

Note:
