LYNK+

USER MANUAL

RTX 5090 UPGRADE KIT V1.1

PLEASE READ BEFORE STARTING:

Congratulations on your new LYNK+ liquid cooling system.

The modular design of LYNK+ makes installation quick and simple, letting you enjoy top performance in just a few steps.

IF YOU PURCHASED A LYNK+ UPGRADE KIT, PLEASE FOLLOW THE INSTALLATION STEPS BELOW TO MOUNT THE LYNK+ COOLER MODULE ONTO YOUR GRAPHICS CARD.

IF YOU PURCHASED A GRAPHICS CARD WITH A PRE-INSTALLED LYNK+ COOLER YOU CAN START FROM HERE: INSTALLING THE LYNK+ RADIATOR MODULE

STEP 1: COMPATIBILITY

Even though the system is designed with maximum possible compatibility in mind, there are some things that need to be taken into consideration:

FOR A FULL COMPATIBILITY GUIDE WITH EVERYTHING YOU NEED TO KNOW WHEN PLANNING A NEW PC WITH LYNK+, CLICK HERE: LYNK+ COMPATIBILITY

STEP 2: INSTALLATION INSTRUCTIONS

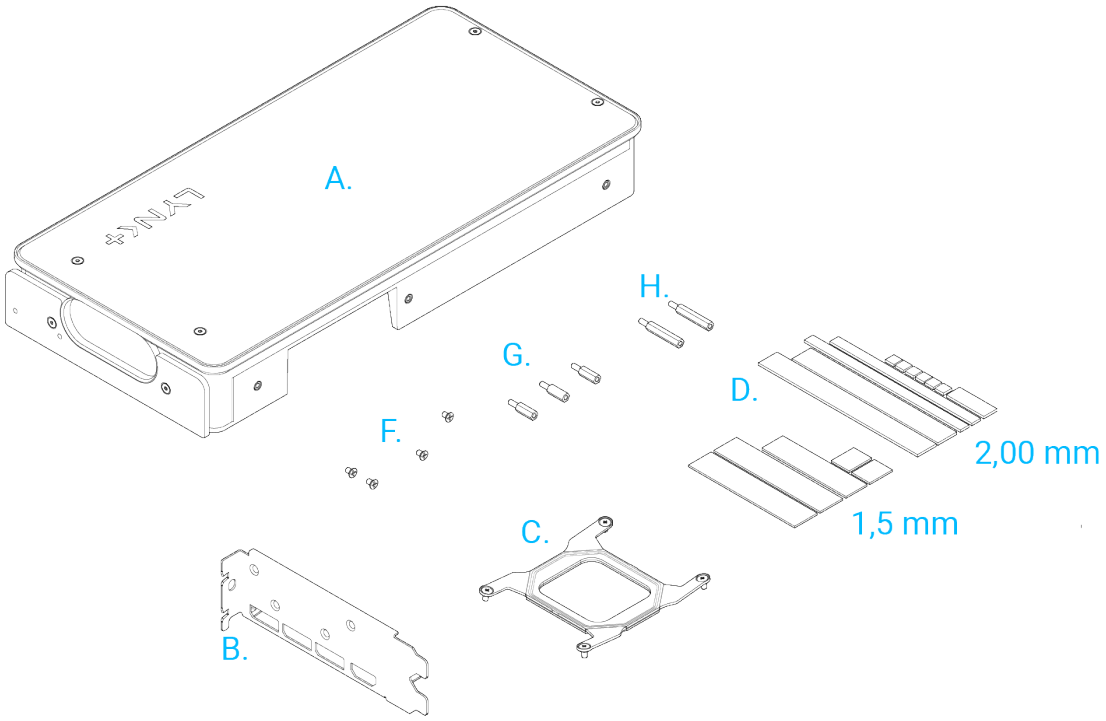
If you've completed the steps above, please continue to the next pages for a complete User Manual on how to install your LYNK+ system.

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INSTALLING THE LYNK+ GPU COOLER MODULE

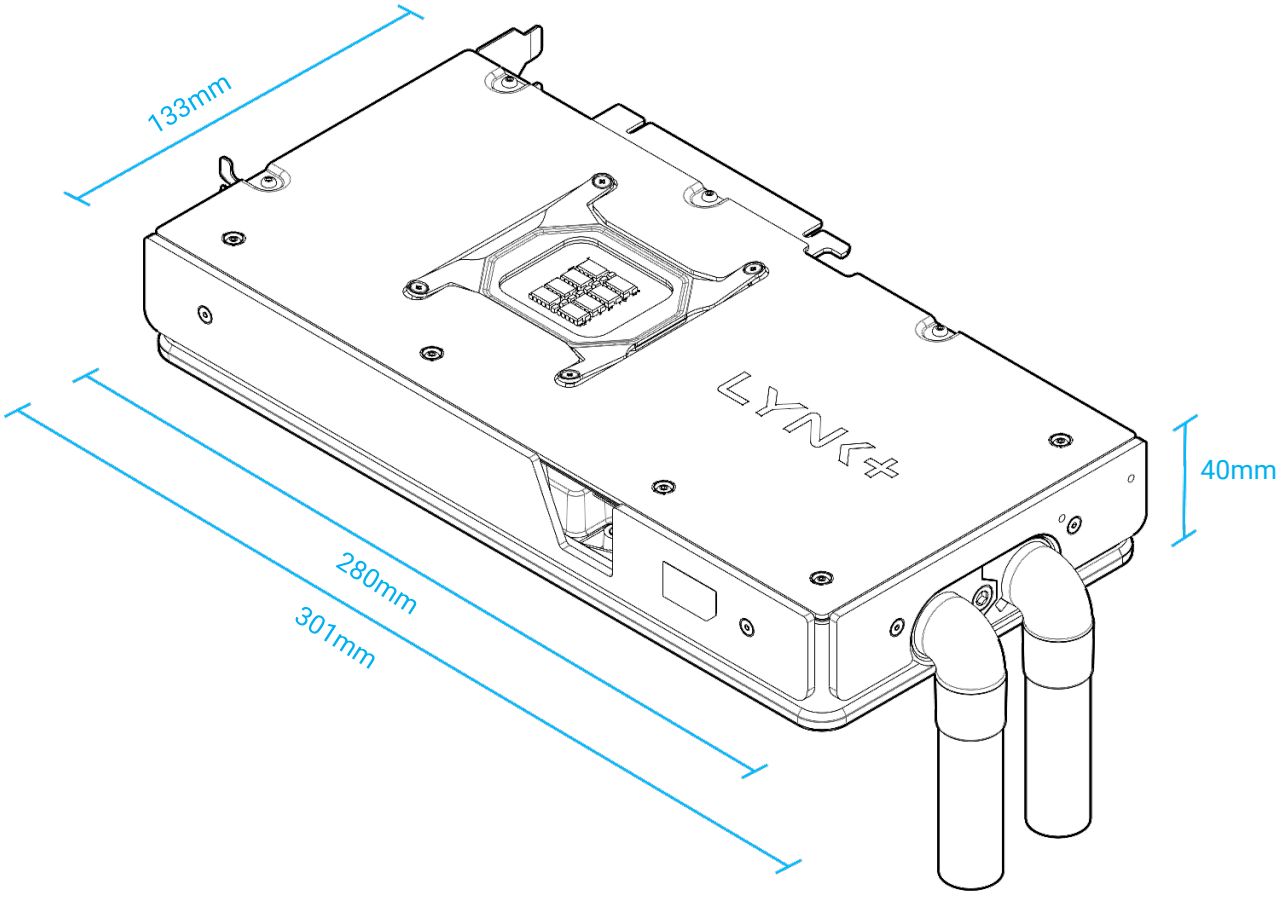
BOX CONTENTS – RTX 5090 UPGRADE KIT V1.1 COOLER



PACKAGE INCLUDES:

A. 1x Modular RTX 5090 V1.1 liquid cooler
B. 1x 2-Slot Slot bracket: Fits all supported GPUs
C. 1x Spring Cross Plate: With built-in mounting hardware
D. 1x Thermal Pad Set (1,5mm and 2,0mm Thicknesses)
E. 1x User Manual
F. 4x Slot Bracket Screws
G. 3x 10mm Standoffs
H. 2x 20mm Standoffs

DIMENSIONS – RTX 5090 UPGRADE KIT V1.1 COOLER



PREPARING GPU

STEP 1

Place the GPU on a clean, static-safe surface. Remove all screws securing the stock cooler to the GPU PCB, supporting the cooler as you loosen the final screws.

STEP 2

Remove the I/O bracket and spring cross. Keep the screws organised so you can identify them later.

STEP 3

Gently lift the cooler just enough to access the fan and RGB connectors. Disconnect them by holding the plugs, not the wires, then remove the cooler.

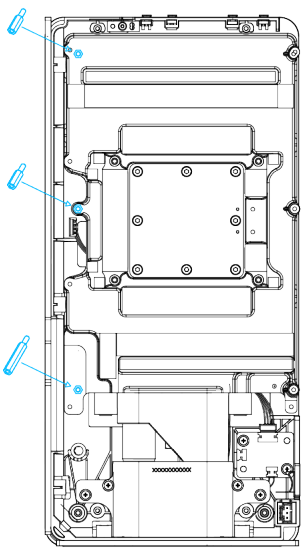
STEP 4

Remove all original thermal pads. Use a lint-free cloth lightly moistened with isopropyl alcohol to clean away the old thermal grease and any residue from the contact areas. Let the surfaces dry completely before continuing.

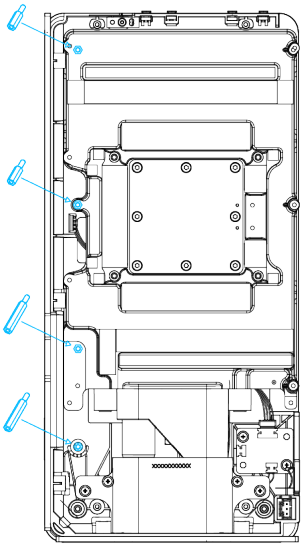
PREPARING THE LYNK+ COOLER

STEP 5

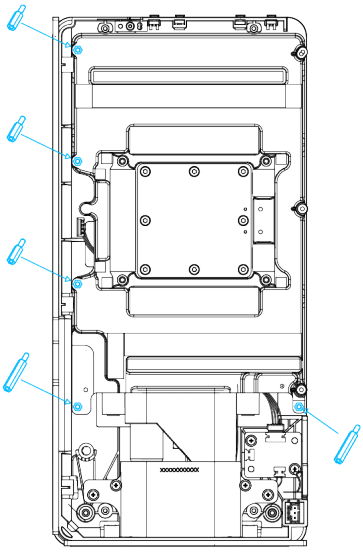
Depending on your GPU model, install standoffs (item G and H) in indicated positions. Make sure to use the correct length of standoffs for each position.



REF



ZOTAC



PALIT

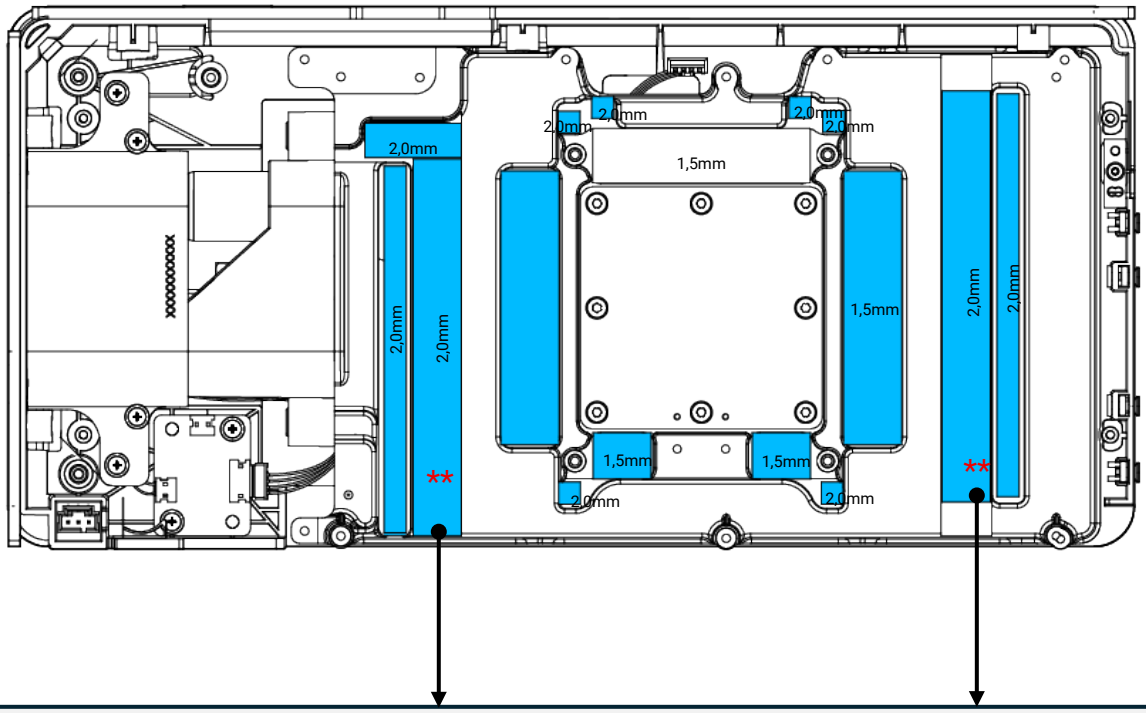
STEP 6

Remove the blue protective foil from the copper cold plate. Make sure the cooler block’s surface is clean.

THERMAL PADS

THE THERMAL PADS BUNDLED WITH YOUR LYNK+ COOLER OFFER HIGH THERMAL CONDUCTIVITY. THIS REQUIRES THE PADS TO BE MALLEABLE.

MAKE SURE YOU DON'T OVERSTRECH THE PADS DURING INSTALLATION.



** ZOTAC GPUs DO NOT REQUIRE THERMAL PADS ON THESE POSITIONS

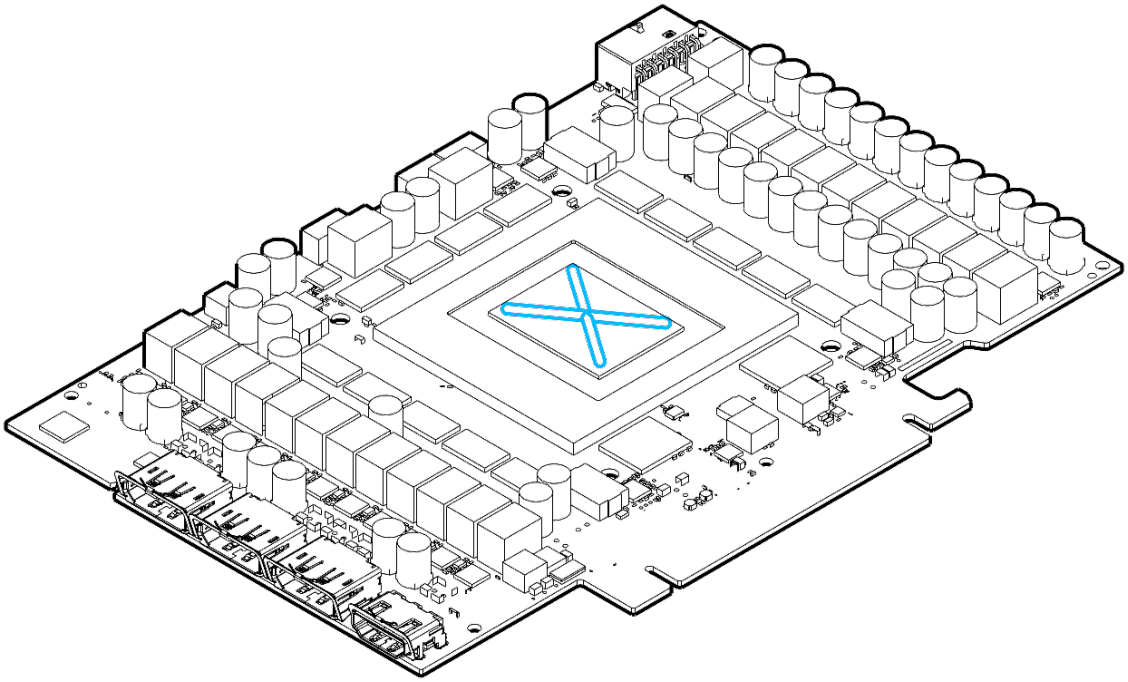
STEP 7

Apply the thermal pads (Item D) one at a time to the positions shown, making sure to use the correct pad thickness for each location.

STEP 8

Once all thermal pads are correctly positioned, remove the protective film from each pad.

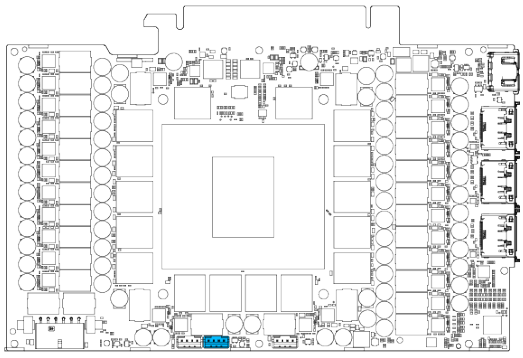
APPLYING THERMAL PASTE



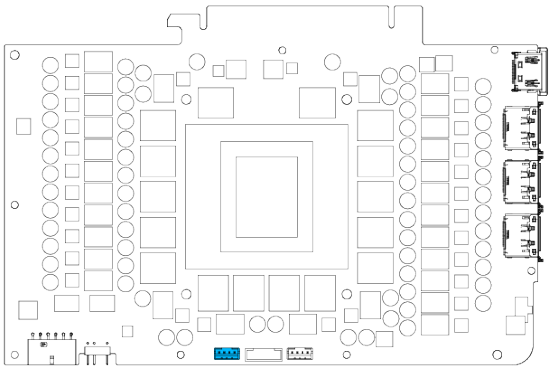
STEP 9

Evenly apply your chosen thermal paste on the GPU chip, an “X” pattern is usually good enough, but thinly spreading the paste is recommended.

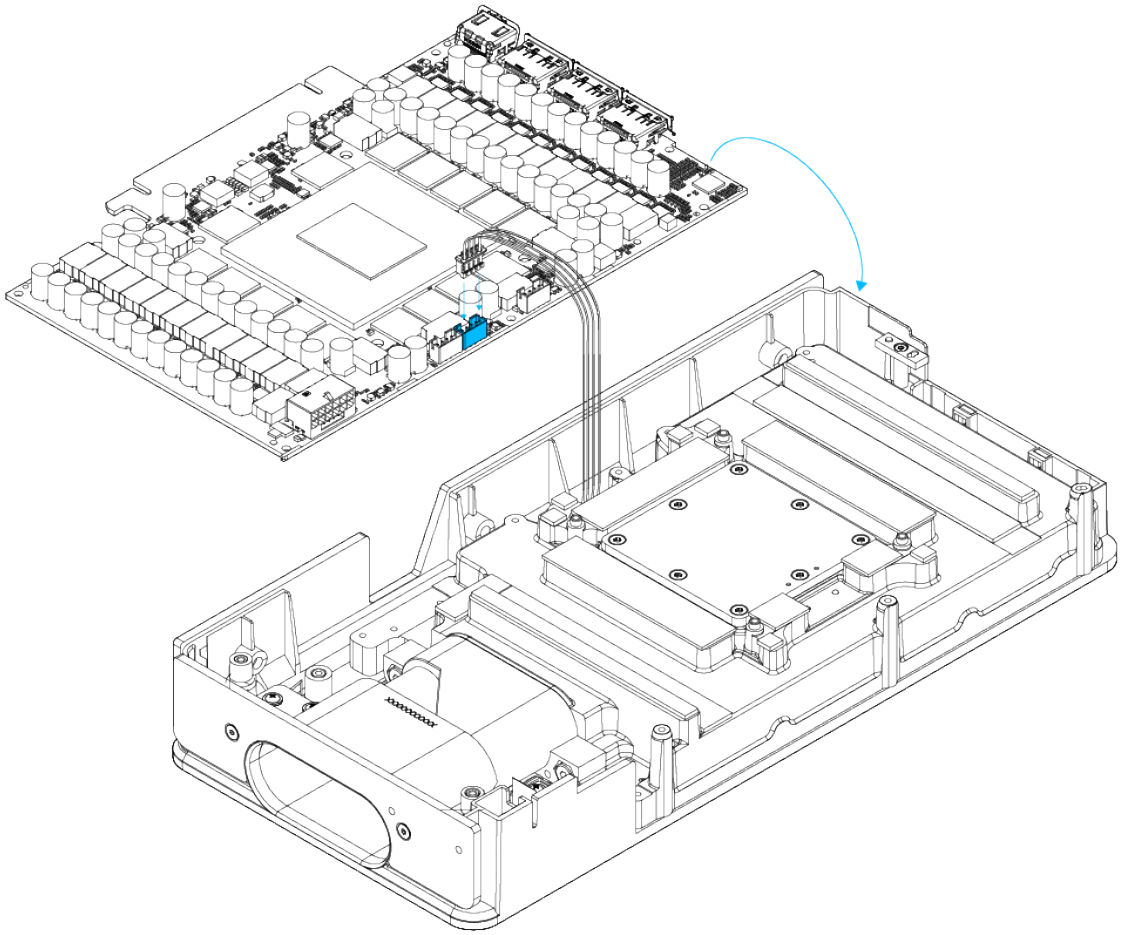
CONNECT SYSTEM TO GPU FAN

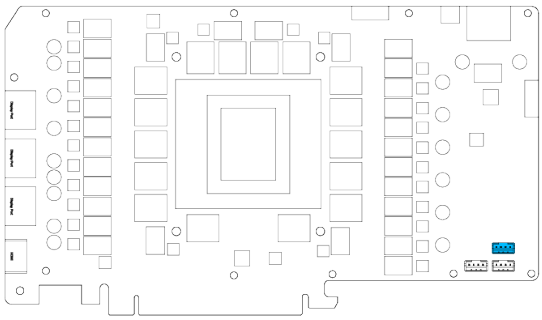


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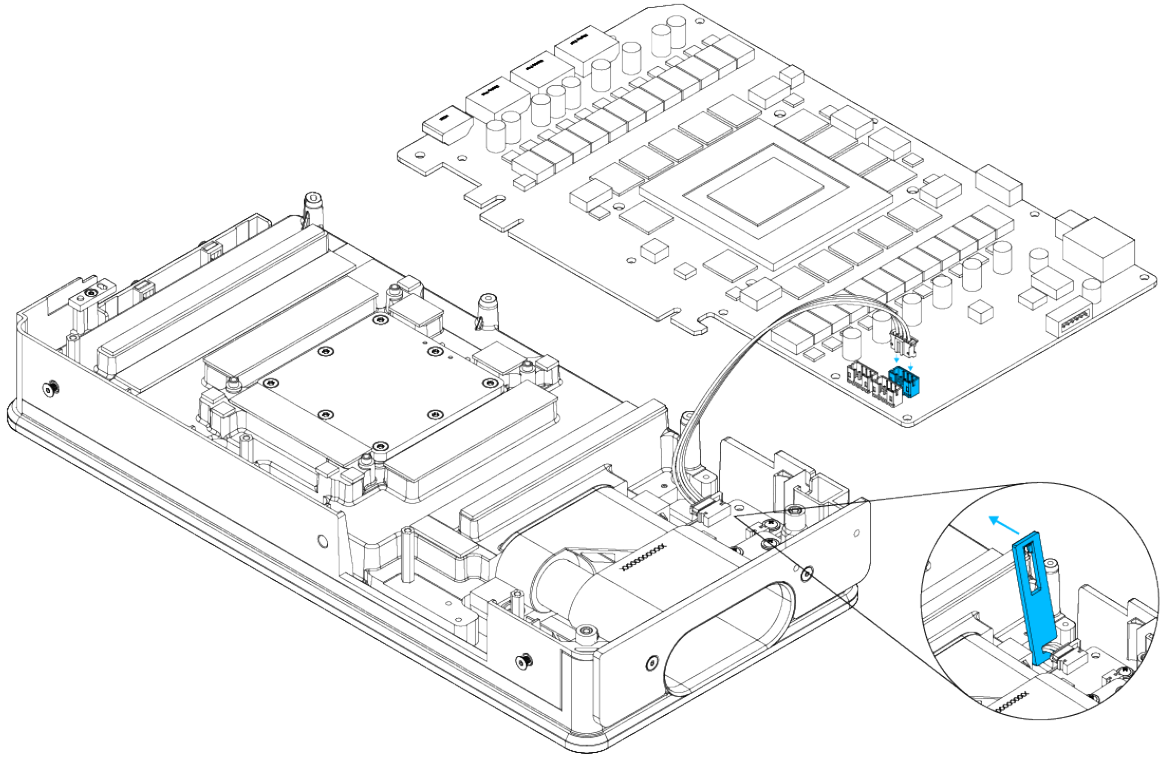


PALIT





ZOTAC



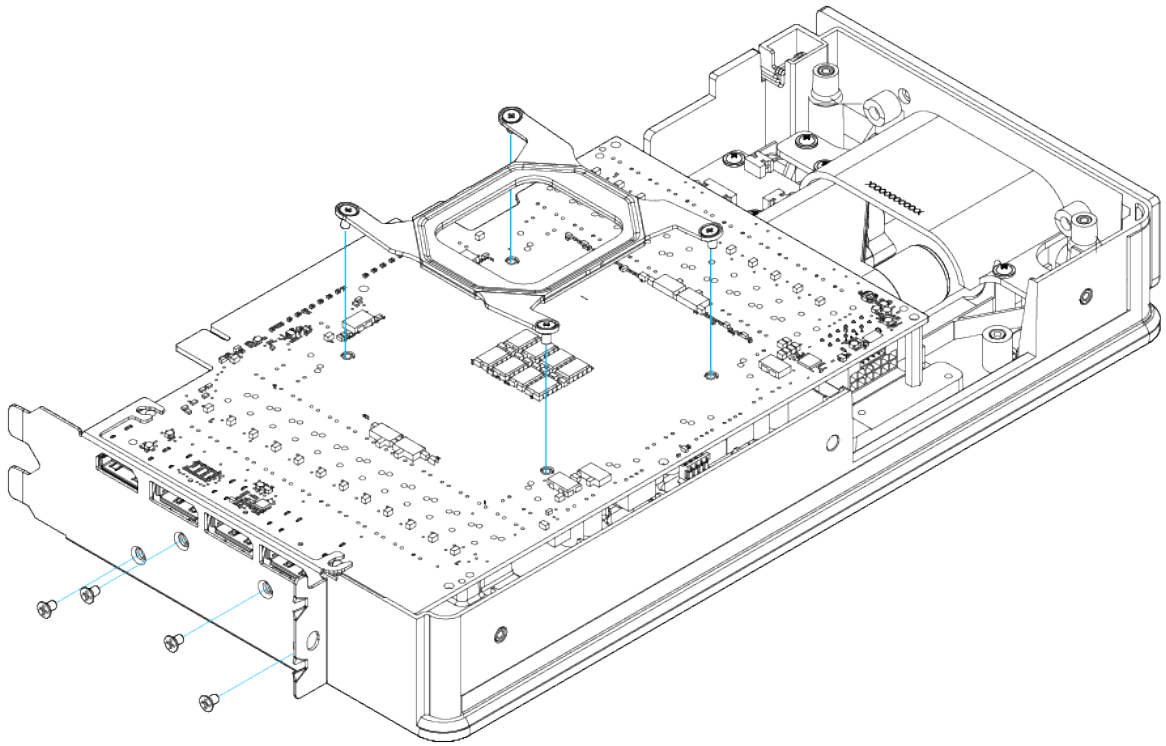
FOR ZOTAC 5090 GPUS:

REPLACE THE PRE-INSTALLED FAN CABLE WITH THE CABLE PROVIDED IN THE ACCESSORIES BOX.

USING THE SUPPLIED TOOL, CAREFULLY REMOVE THE PRE-INSTALLED FAN CABLE AS SHOWN IN THE IMAGE.

CONNECT THE SUPPLIED REPLACEMENT CABLE TO THE COOLER FIRST, THEN CONNECT THE OTHER END TO THE FAN CONNECTOR ON YOUR ZOTAC GPU.

ATTACHING WATERBLOCK



STEP 10

Place prepared GPU onto the LYNK+ Cooler with installed thermal pads and standoffs. Ensure that the mounting holes on the PCB and the cooler are aligned.

STEP 11

Position spring cross (item C), tighten screw 1 to about half its length, press down screw 2 and tighten again to about half its length. Next repeat same steps for position 3 and 4. Then gently tighten all screws until stop.

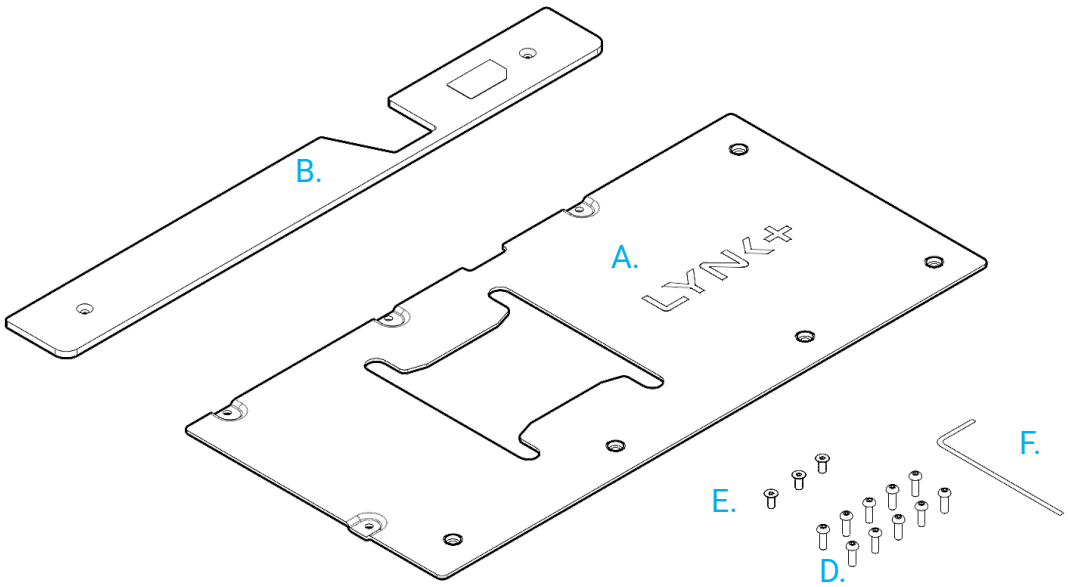
STEP 12

Position I/O bracket (item B) onto cooler and tighten using included 4 countersunk screws (item F).

INSTALLING THE PLATE KIT

USE THE MATCHING PLATE KIT FOR YOUR GRAPHICS CARD. CHECK THE LYNK+ PLATE KIT COMPATIBILITY LIST

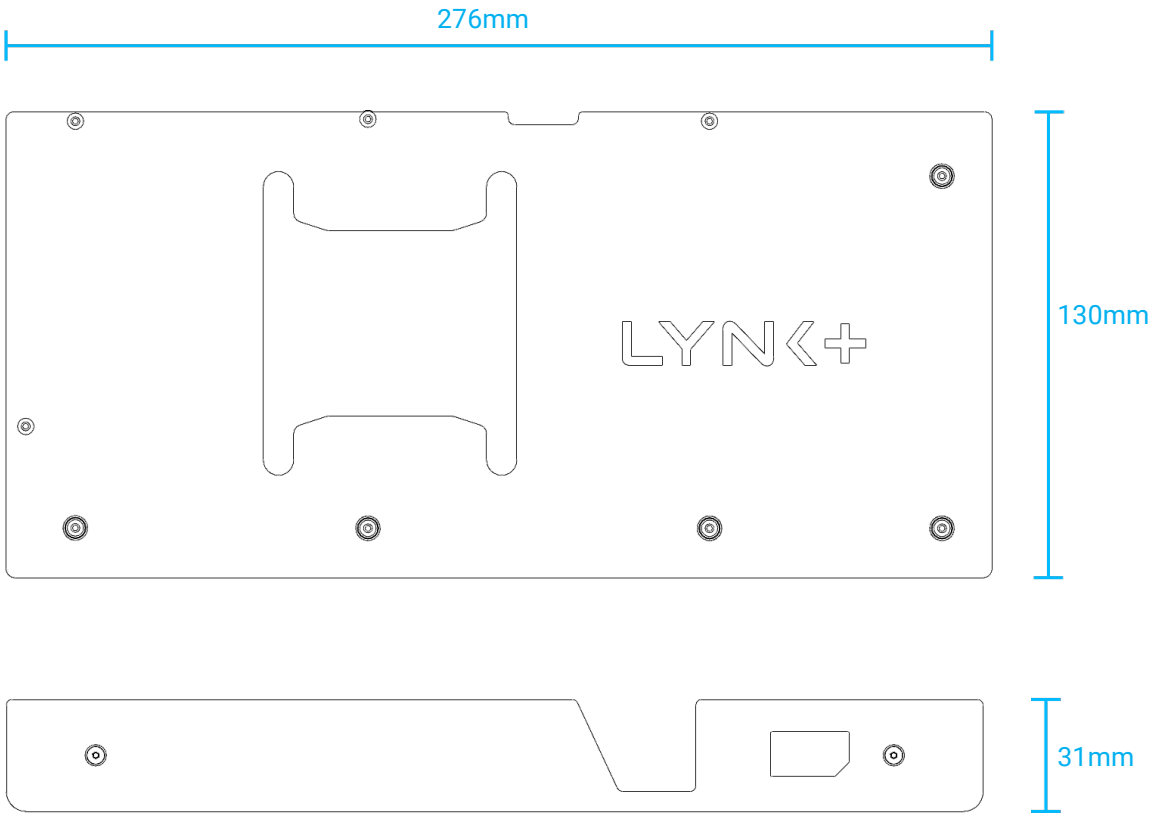
BOX CONTENTS



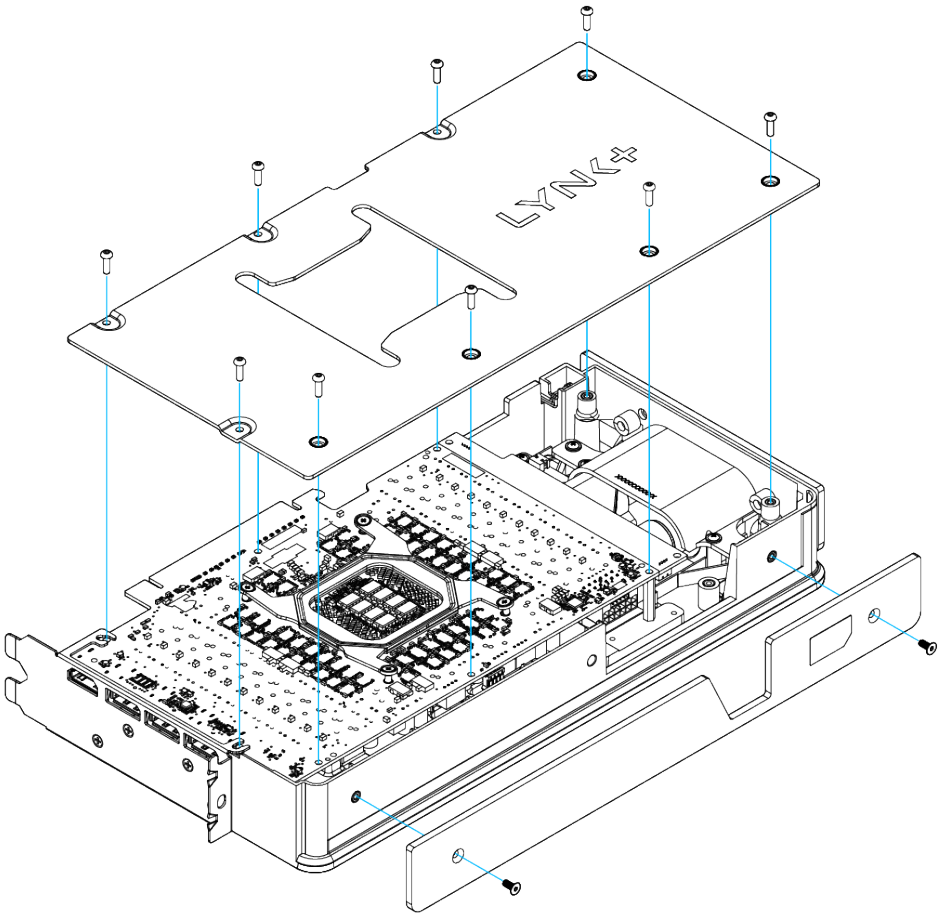
PACKAGE INCLUDES:

A. 1x Back Plate (for Either Ref, Zotac or Palit)
B. 1x Front Plate (for Either Ref, Zotac or Palit)
C. 1x User Manual
D. 10x Backplate Screws
E. 3x Front Plate Screws
F. 1x L-shaped key

DIMENSIONS



INSTALLING BACKPLATE AND FRONT PLATE



STEP 13

Make sure LED and fan cable are outside the cooler and positioned in the cable slot.

STEP 14

Place the backplate onto the GPU and make sure the screw holes are aligned.
Press on I/O bracket and tighten the two bracket screws first.
Install all remaining screws. Sightly fasten all screws before you tighten them.

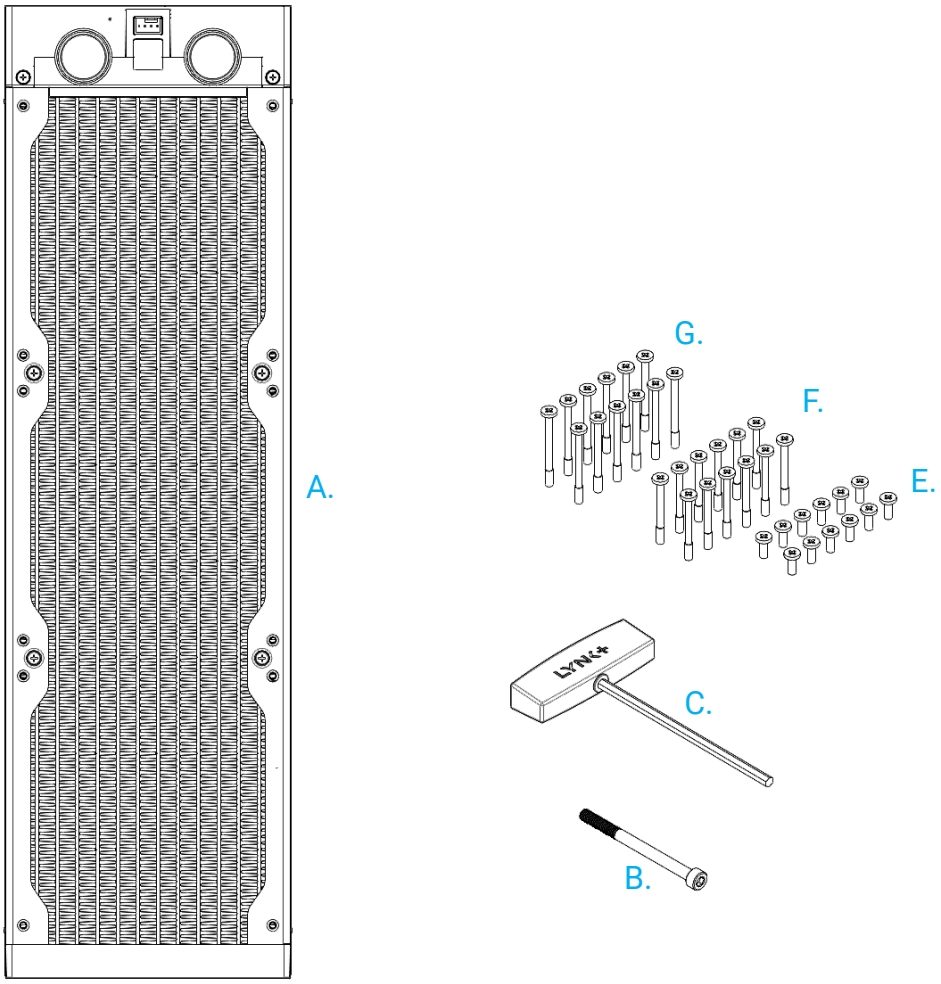
DON'T USE EXCESSIVE FORCE WHEN TIGHTENING THE SCREWS!

STEP 15

Attach the front plate with 2 screws to the cooler front.

INSTALLING THE LYNK+ RADIATOR MODULE

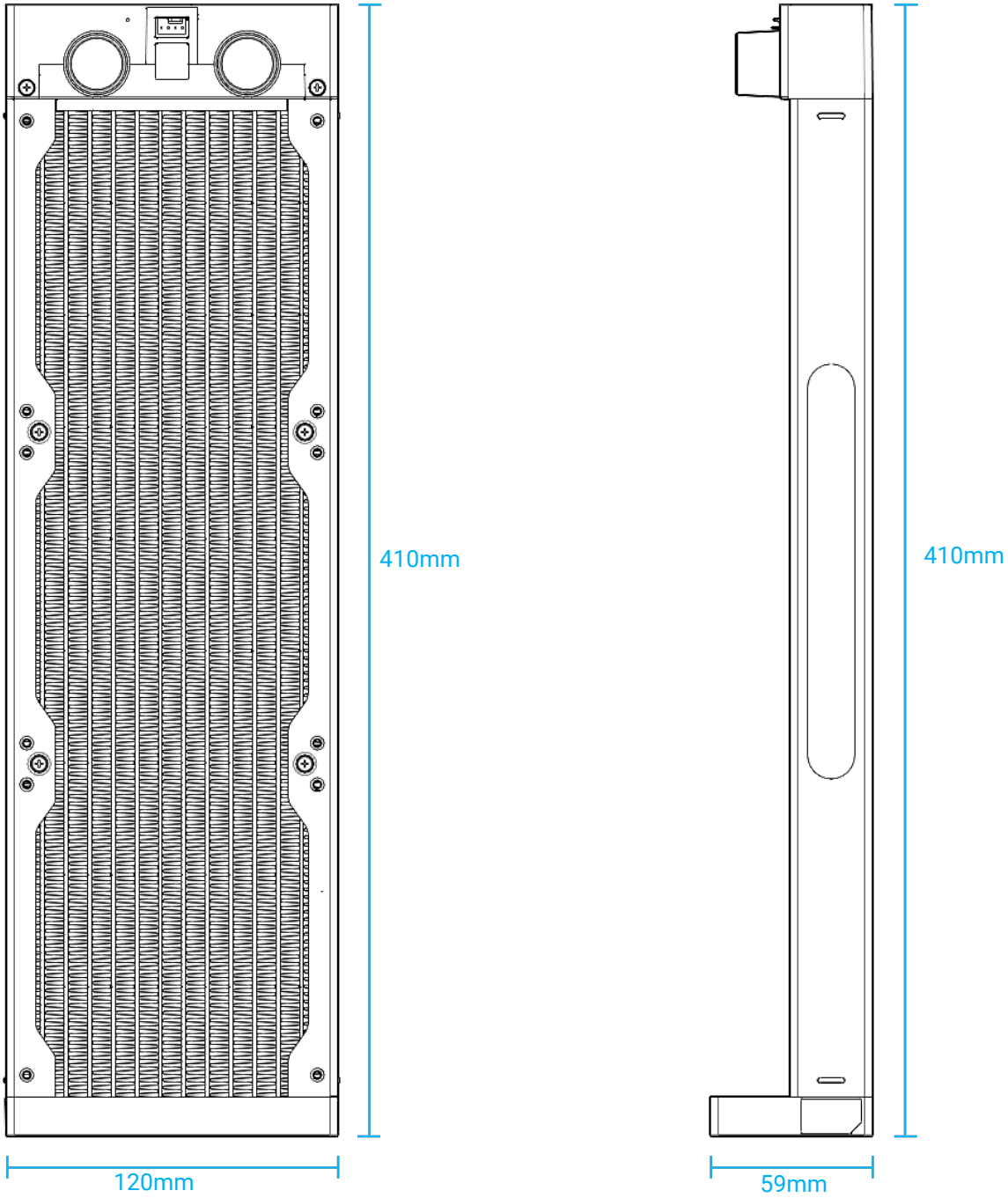
BOX CONTENTS



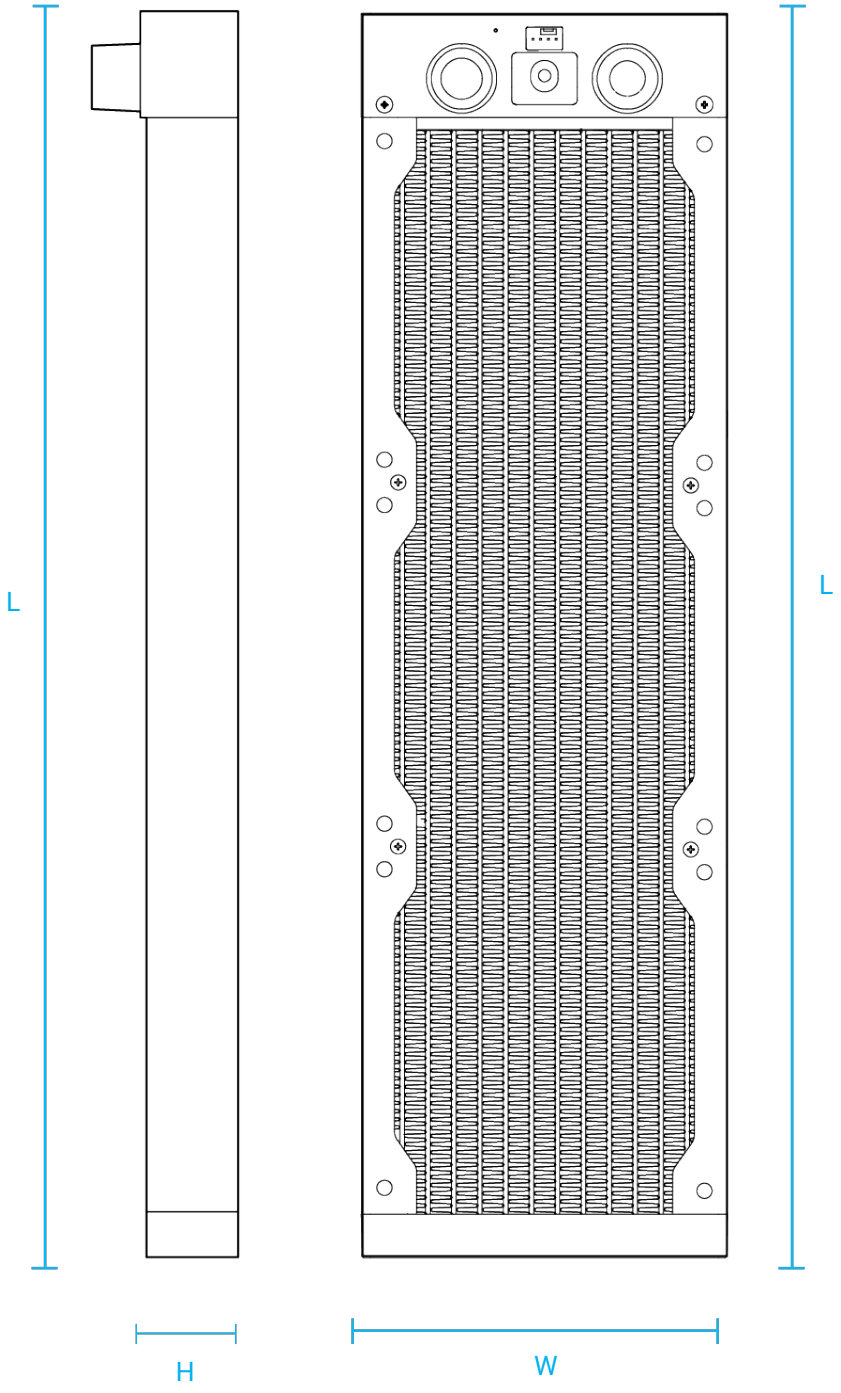
Package includes:

A. 1x 360mm Radiator Module
B. 1x Quick Connect Screw
C. 1x LYNK+ Hex Key
D. 1x User Manual QR
E. 12x Case screws
F. 12x Fan screws for 25mm thick fans
G. 12x Fan screws for 30mm thick fans

DIMENSIONS FOR RADIATOR MODULE 360 LED SLIM



DIMENSIONS FOR CORE RADIATOR MODULES 360 & 240



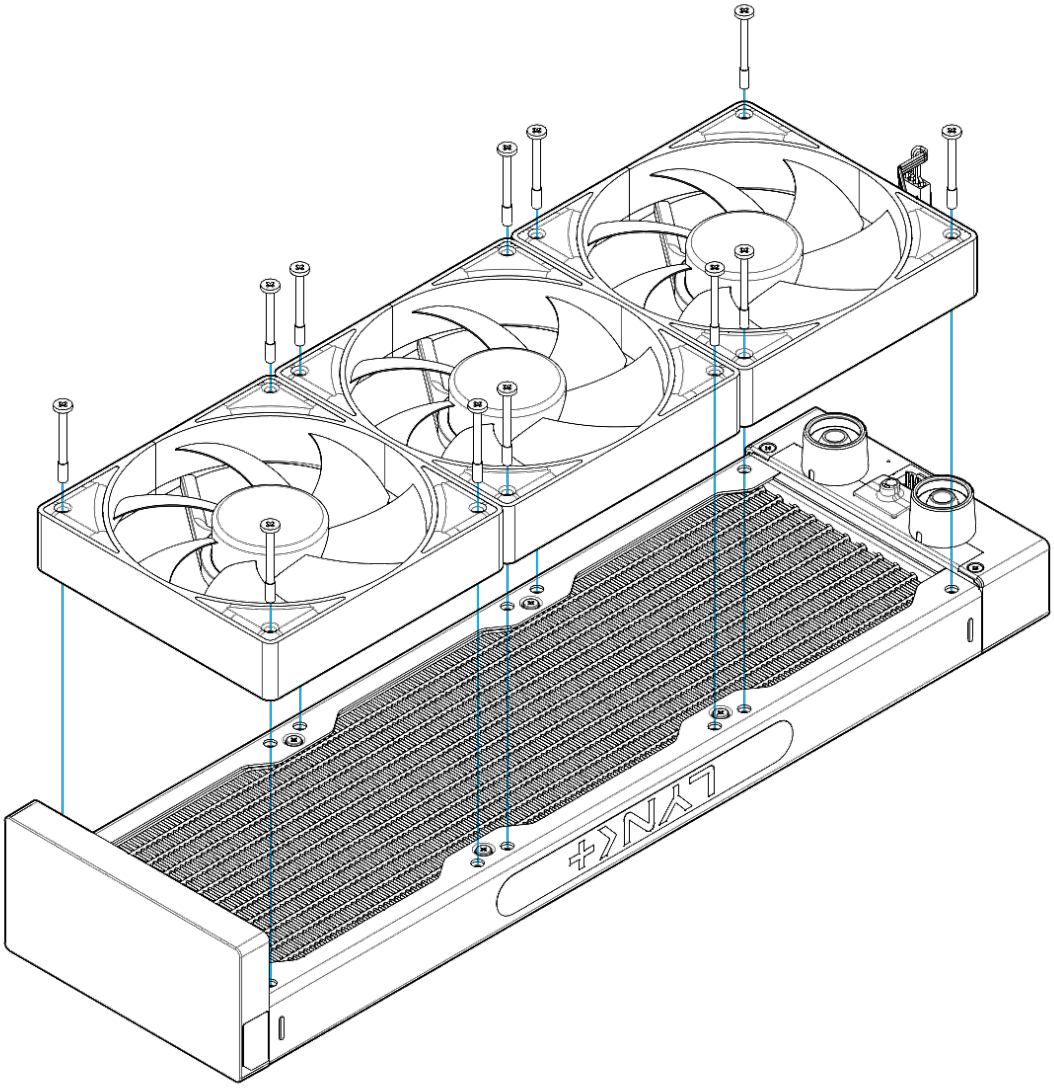
CORE RADIATOR MODULE 360	CORE RADIATOR MODULE 240
410 (L) x 120 (W) x 30 (H) mm	289 (L) x 120 (W) x 30 (H) mm

ASSEMBLY OF THE RADIATOR

LYNK+ RADIATORS USE STANDARD PC FAN MOUNTING HARDWARE AND SUPPORT A RANGE OF COMPATIBLE FANS. THE LED RADIATOR'S EXTENDED BOTTOM TANK MAY LIMIT FIT WITH SOME FAN MODELS. CLICK HERE TO CHECK FAN COMPATIBILITY.

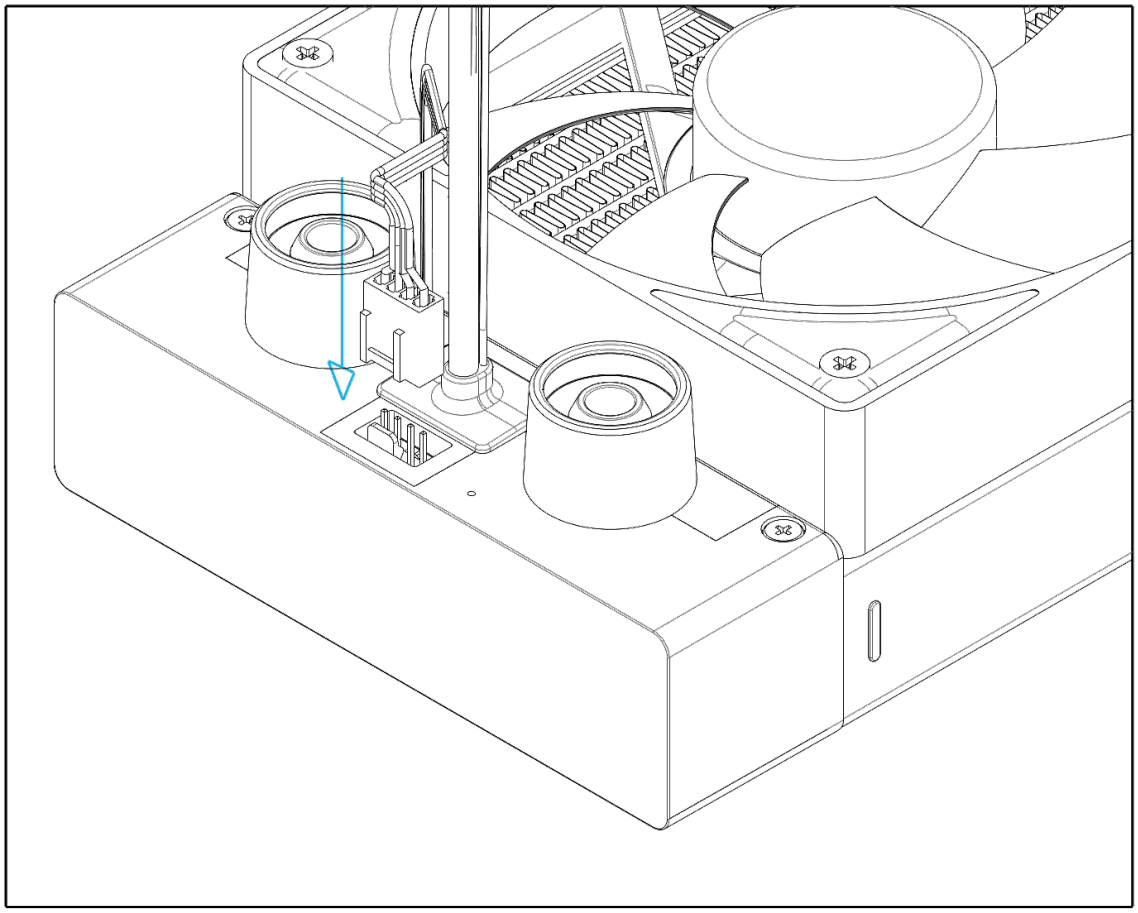
THE NEW CORE RADIATOR OMITS THIS TANK, REMOVING THAT CLEARANCE RESTRICTION AND ALLOWING BROADER FAN COMPATIBILITY.

STEP 16: INSTALL FANS ON RADIATOR



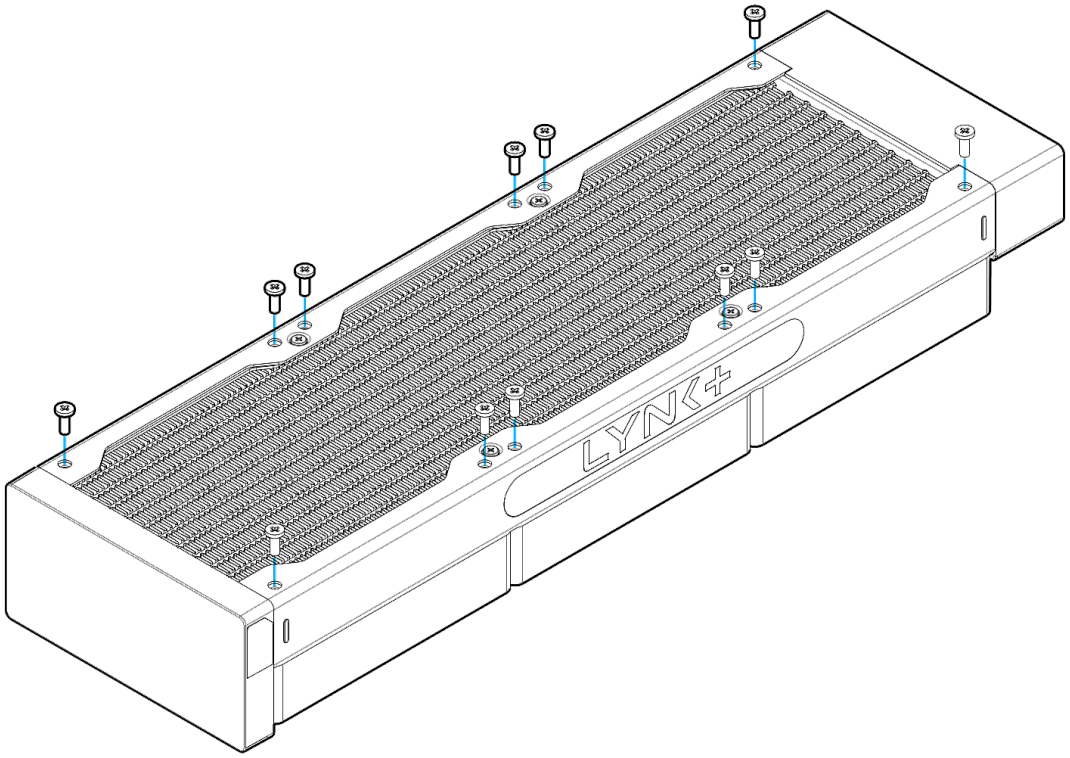
The package includes screws for 25mm and 30mm thick fans. Pick the ones that better fit your chosen fans. Screw the fans onto the radiator.

STEP 17: CONNECT FANS TO RADIATOR



Connect all 3 fans as daisy-chain using Y splitting cables, and the first one to the radiator front 4-Pin PWM connector between the tubes. The Radiator Module will provide power and RPM requirement to the fans connected to it.

STEP 18: INSTALL RADIATOR ON PC CASE

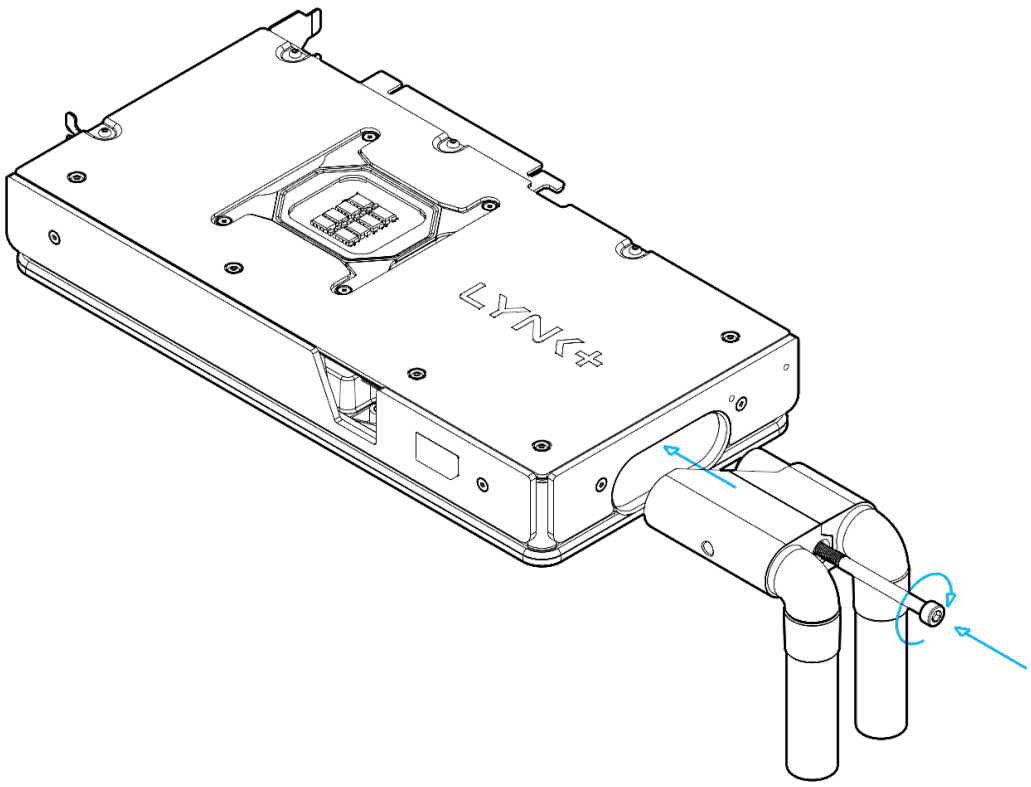


The LYNK+ system allows for the Radiator Module to be installed in any orientation, choose the one that best fits your PC case and mount the radiator using the provided PC case screws.

STEP 19: CONNECT RADIATOR CABLES

Connect SATA connector from power supply to radiator connector and connect radiator and for the LED version of the Radiator Module, connect the A-RGB cable to motherboard 3-in A-RGB header.

CONNECT BOTH MODULES USING THE LYNK+ QUICK CONNECT

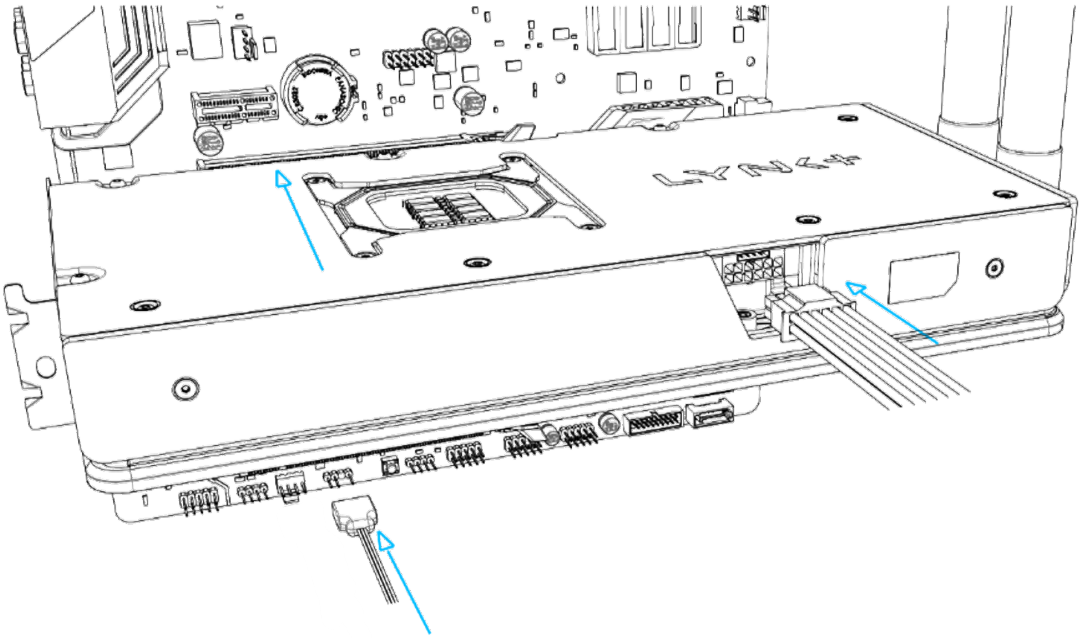


STEP 20

Insert Quick Connect in the direction shown, then insert screw, push lightly and fasten the screw using the provided Hex Key. Screw in until you feel a hard stop and the Quick Connect is flush with the cooler front.

The Quick Connect stays watertight all the way through the coupling process, there's no need to further tighten the screw after it stops.

INSTALLING LYNK+ GPU



STEP 21

Connect the GPU Cooler Module cable directly to the GPU as shown. Make sure the connector is fully inserted and securely seated before continuing with the installation.

Carefully plug the 16-pin 12VHPWR connector according to the instructions provided by the Graphics Card manufacturer, make sure the connector is fully inserted before starting the system.

Attach the D-RGB LED’s 3-pin connector to a D-RGB header on your mainboard.

STEP 22: MAKE SURE EVERYTHING IS INSTALLED CORRECTLY

Check that all cables are connected correctly.
Make sure Quick Connect is screwed in completely.
Make sure the tubing has no sharp bends.

YOU ARE NOW READY TO POWER ON YOUR SYSTEM.

CONFIGURING THE FANS

ONCE THE SYSTEM IS RUNNING, CHECK STATUS LED ON THE FRONT OF RADIATOR MODULE, AFTER STARTUP THE LED SHOULD STAY SOLIDLY ON.

IF THE LED IS BLINKING, PLEASE REFER TO THE BLINK CODE IN THE TROUBLE SHOOTING SECTION FURTHER DOWN.

With the 1.1 version of the cooler module, the fans are directly controlled through the GPU itself. It is pre-configured so you do not have to perform any additional steps. However, if you want to customize fan curves or control fan speeds, here's our recommended steps:

FAN CONTROL SOFTWARE

Fan Control is a third party software for controlling fans **independent of** what **Mainboard brand** you built your system around. This software allows you to **control fans** based on any given system temperature, including **GPU temperature**. This is the software that we use for our in-house testing, and we highly recommend it:

1. Download and install the latest version of the Fan Control software at: https://getfancontrol.com/
2. Install all required updates, plugins or libraries when prompted on the first start.
3. Run the Assisted Setup, fan control will detect connected fans and help you pair the fan RPM Control to their corresponding speed sensors. Enable "Start at user log on" and "Start minimized".
4. You can then choose how to customize your curves as per your requirements, especially if you want a specific RPM for specific temperatures.

TROUBLESHOOTING & LED BLINK CODES

NORMAL OPERATION (STATUS LED LIGHTS UP CONTINUOUSLY):

Status LED blinks for first 1 or 2 seconds after powering the system and then lights up continuously.

BUS SEARCH (STATUS LED FLASHES SLOWLY, 1HZ FREQUENCY) OR BUS ERROR (STATUS LED FLASHES 2 TIMES, 1HZ FREQUENCY):

The bus is not verified or interrupted. This status also applies to the initial bus verification. Pump keeps running at 3900 RPM, fans will go to 1200 RPM, but fan and pump speed cannot be controlled. Make sure the coupling is screwed to the stop and check that the 4/Pin Fan connector is connected properly and “Fan control Mode” for this connector is set to “PWM” on your BIOS or mainboard control software.

PUMP ERROR (STATUS LED FLASHES QUICKLY, 2HZ):

Pump RPM signal is too low or too high. The error state is cancelled when the RPM value of the pump is normalised again. Can mean that air collected inside of the pump, usually restart solves this issue. If not try to tilt the radiator a little while start up, so air can move to reservoir.

NO POWER (STATUS LED IS NOT LIGHTED):

Check if Sata cable of radiator is connected to power.



Customer Support: support@lynk.plus

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Product may vary slightly from those pictured. 9500-5262-50-01