

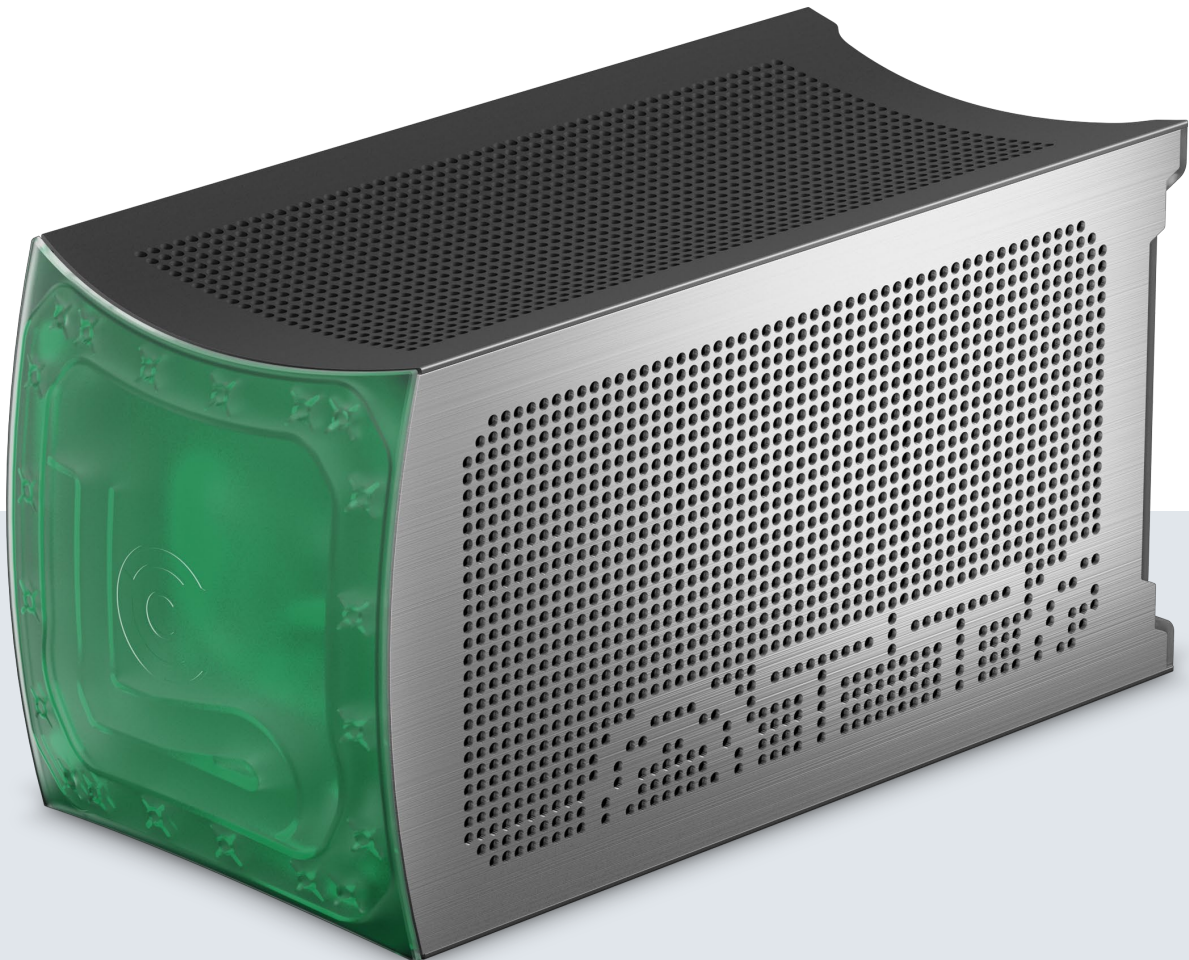


DATASHEET
COMINO OTTO DIY

COMINO OTTO

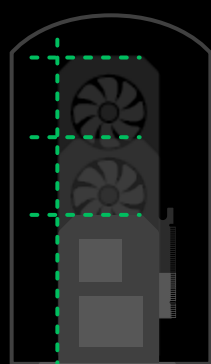
TRANSFORMABLE DIY KIT

SFF PLATFORM FOR ASSEMBLING
AN **AIR-** **LIQUID-** OR **HYBRID-**COOLED SYSTEM
WITH A FULL-SIZED GPU



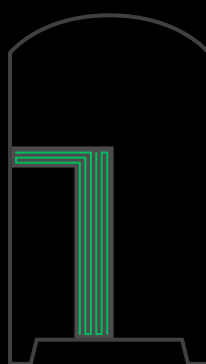
Small-form-factor transformable platform for assembling a vast number of configurations with both air- and liquid cooling, including AIO systems from standard off-the-shelf parts by yourself.

Unleash the beauty of compactness with Comino's custom-manufactured transformable small form factor platform — the OTTO. Thorough engineering and attention to detail allowed us to create the first customizable SFF platform that fits a full-sized GPU of your choice and allows various cooling.



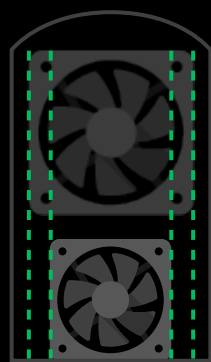
TOP VIEW

The case supports PCIe cards, as well as **full length, full height and expanded GPUs**, e.g., STRIX.



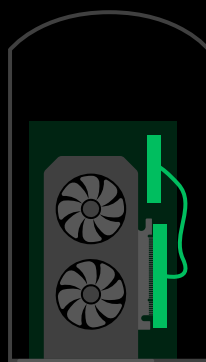
SIDE VIEW

Cable management: reduce superfluous cable length — hide most cables and trunking close to the power supply behind the bend on the central panel.



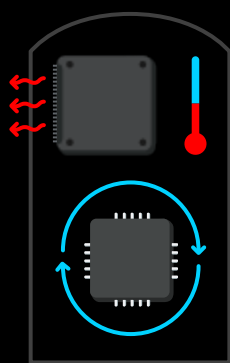
TOP VIEW

The mounts for **120mm and 140 mm** fans and radiators on the upper and lower panels.



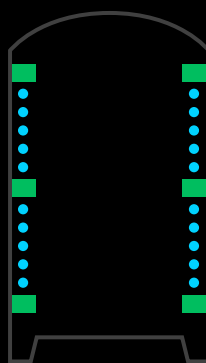
TOP VIEW

Modification of PCIe riser's mount system: mount the **GPU in a standard way** — onto the PCIe slot and back panel with a screw.



TOP VIEW

Smart Air Flow: hot air is now channeled sideways, not downwards. The hot air from the PSU doesn't reach the processor on an air-cooled system.



SIDE VIEW

A convenient **fixing bracket for LED stripes** on the upper and lower panels inside the case.

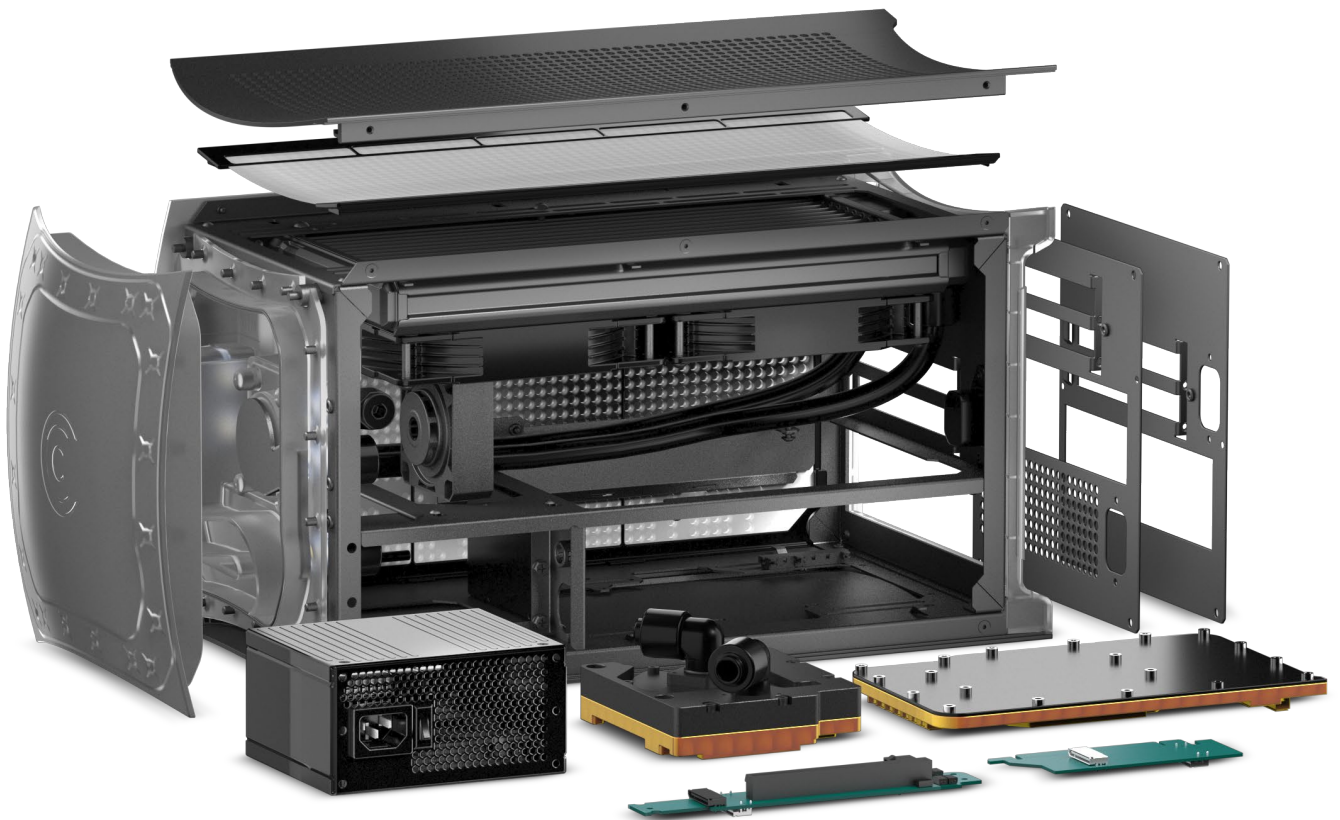
FIRST SFF CASE TRANSFORMER IN THE INDUSTRY

DATASHEET
COMINO OTTO DIY

Build anything from an epic gaming rig to a powerful workstation on liquid cooling, air cooling and even AIO systems using ordinary retail components using this complete DIY platform.



On the central panel of the case where the motherboard is mounted, the GPU can be installed in three different positions (details on pages 15-17)



OTTO **BUILDER'S EDITION**

A version with server-grade cooling to assemble Master/Super configurations by your own hardware. Preferable for distributors and assembly-shops.

TECH SPECIFICATION

DIMENSIONS	405mm x 211mm x 190mm (15.9in x 8.3in x 7.5in)
VOLUME	13.8L
WEIGHT	9.8 KG
CHASSIS	Otto semi-transparent small form factor, 2mm-thick aluminum panels on neodymium magnets
PSU	Comino CMNO 750W SFX Platinum PSU with custom cable set AC INPUT RATING 100-240V
MOTHERBOARD / CPU COOLING	MoBo fullcover water block / angled top with G1/4" threads (supports ASUS ROG STRIX Z490-I Gaming, ASUS ROG STRIX B550-I Gaming) — TO BE CHOSEN
GPU COOLING	<p>GPU full cover water block w/ coolant splitter with G1/4" threads.</p> <p>Supports:</p> <ul style="list-style-type: none">• All reference NVIDIA GEFORCE RXT 3080/3090 GPUs (not Founder's Edition)• GIGABYTE GAMING and TURBO 3080/3090 GPUs• TURBO-RTX2080S-8G-EVO• TURBO-RTX2070S-8G-EVO• ROG-STRIX-RTX2080TI-O11G-GAMING• ROG-STRIX-RTX2080TI-A11G-GAMING• ROG-STRIX-RTX2080TI-11G-GAMING
RADIATOR	Hardware Labs Nemesis 280GTS, 280x30mm, copper, removes up to 800W of heat
FANS	2x NOCTUA NF-A14 iPPC-2000 PWM, silent, 2000 RPM

RESERVOIR	Built-in Comino Reservoir GS Otto, translucent, 320ml for liquid cooling
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PUMP	Laing DDC 3.25 18W (PWM), built into the reservoir
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RISER	Comino PCIe x16 high-end riser board with flexible cable
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MECHANICAL POWER BUTTON	Anti-vandal Comino Otto Button, stainless steel, white LED ring
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RGB LED LIGHTING	ASUS Aura-compatible RGB stripes: one RGB LED stripe at the front and two addressable RGB LED stripes along the case sides
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FITTINGS AND TUBINGS	10x 10mm barb fittings; 10x ear-clamps; 1m EPDM black-matte Tubing 10/13mm; 1x Coolant temperature sensor; Thermal paste and pads
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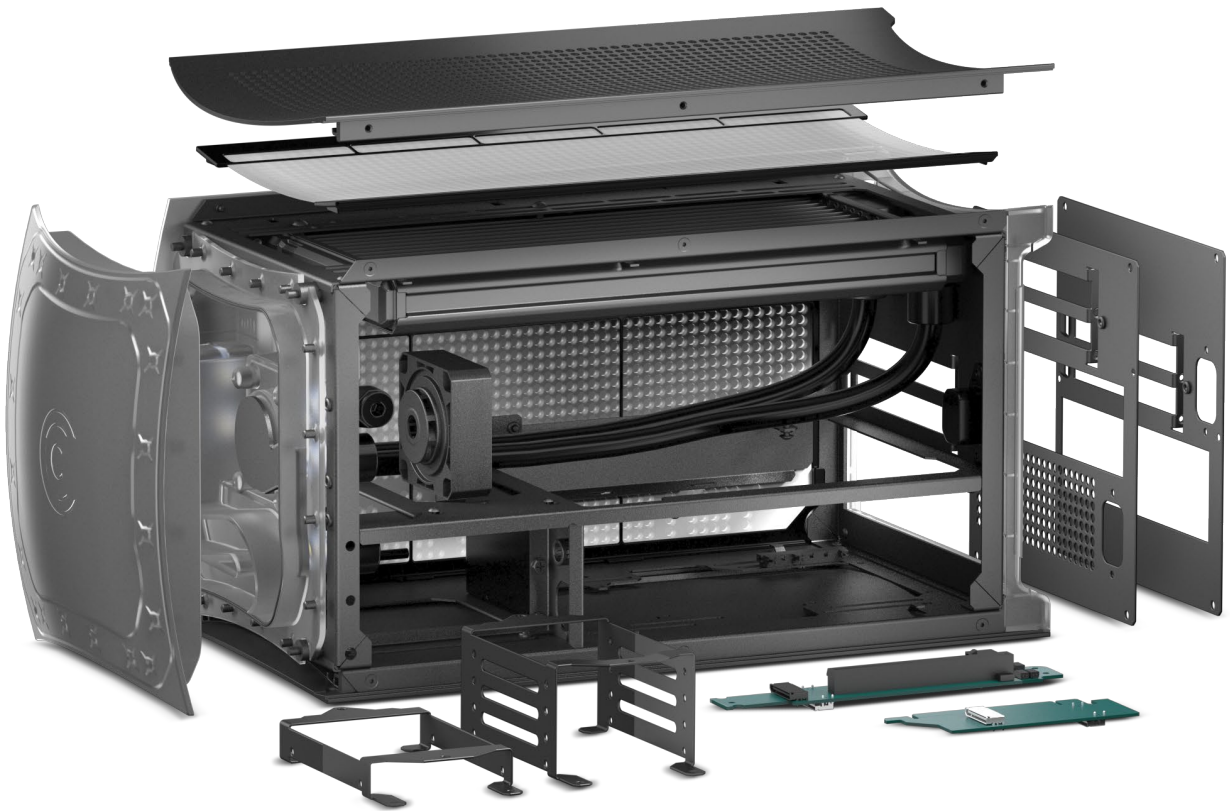
COMPATIBILITY DETAILS

MOTHERBOARDS	COMPATIBLE WITH ASUS ROG STRIX Z490-I Gaming, ASUS ROG STRIX B550-I Gaming
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GPU	<ul style="list-style-type: none">• All reference NVIDIA GEFORCE RXT 3080/3090 GPUs (not Founder's Edition)• GIGABYTE GAMING and TURBO 3080/3090 GPUs• TURBO-RTX2080S-8G-EVO• TURBO-RTX2070S-8G-EVO• ROG-STRIX-RTX2080TI-O11G-GAMING• ROG-STRIX-RTX2080TI-A11G-GAMING• ROG-STRIX-RTX2080TI-11G-GAMING
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STORAGE	<ul style="list-style-type: none">• 1x 2.5" HDD/SSD: max. height 9mm• M.2 on Motherboard (if MoBo supports)
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MEMORY	Max. height 52mm
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OTTO DIY

An enthusiast's version with just the minimum for liquid-cooled builds.

TECH SPECIFICATION

DIMENSIONS	405mm x 211mm x 190mm (15.9in x 8.3in x 7.5in)
VOLUME	13.8L
WEIGHT	5.3 KG
CHASSIS	Otto semi-transparent small form factor, 2mm-thick aluminum panels on neodymium magnets
RADIATOR	Hardware Labs Nemesis 280GTS, 280x30mm, copper, removes up to 800W of heat
RESERVOIR	Built-in Comino Reservoir GS Otto, translucent, 320ml for liquid cooling
PUMP	Laing DDC 3.25 18W (PWM), built into the reservoir
RISER	Comino PCIe x16 high-end riser board with flexible cable
MECHANICAL POWER BUTTON	Anti-vandal Comino Otto Button, stainless steel, white LED ring
RGB LED LIGHTING	ASUS Aura-compatible RGB stripes: one RGB LED stripe at the front and two addressable RGB LED stripes along the case sides
ADD-ONS	Additional back panels, basket for 4 HDD/SSD

COMPATIBILITY DETAILS

Motherboards

All Mini-ITX motherboards

GPU

Compatible with full-sized GPUs and even with STRIX versions

- Max. height from bottom of PCIe slot to top: 150mm
 - Max. width without backplate: 40mm; including backplate: 45mm
 - Max. length without bracket: 295mm; including bracket: 306mm
-

CPU

Any compatible with chosen MoBo and cooling system

CPU AIOs

- +18mm configuration: 2x120mm or 2x140mm AIO on the CPU
 - +54mm configuration: 1x120mm radiator with an AIO
-

STORAGE

- 1x 2.5" HDD/SSD: max. height 9mm
 - M.2 on Motherboard (if MoBo supports)
-

PSU

Any SFX PSU (NON SFX-L)

FANS

Compatible with:

- 2x 140mm or 2x 120mm on top
 - 1x 120mm or 1x 140mm at bottom
-

AIR COOLER CPU

Max. height 60mm

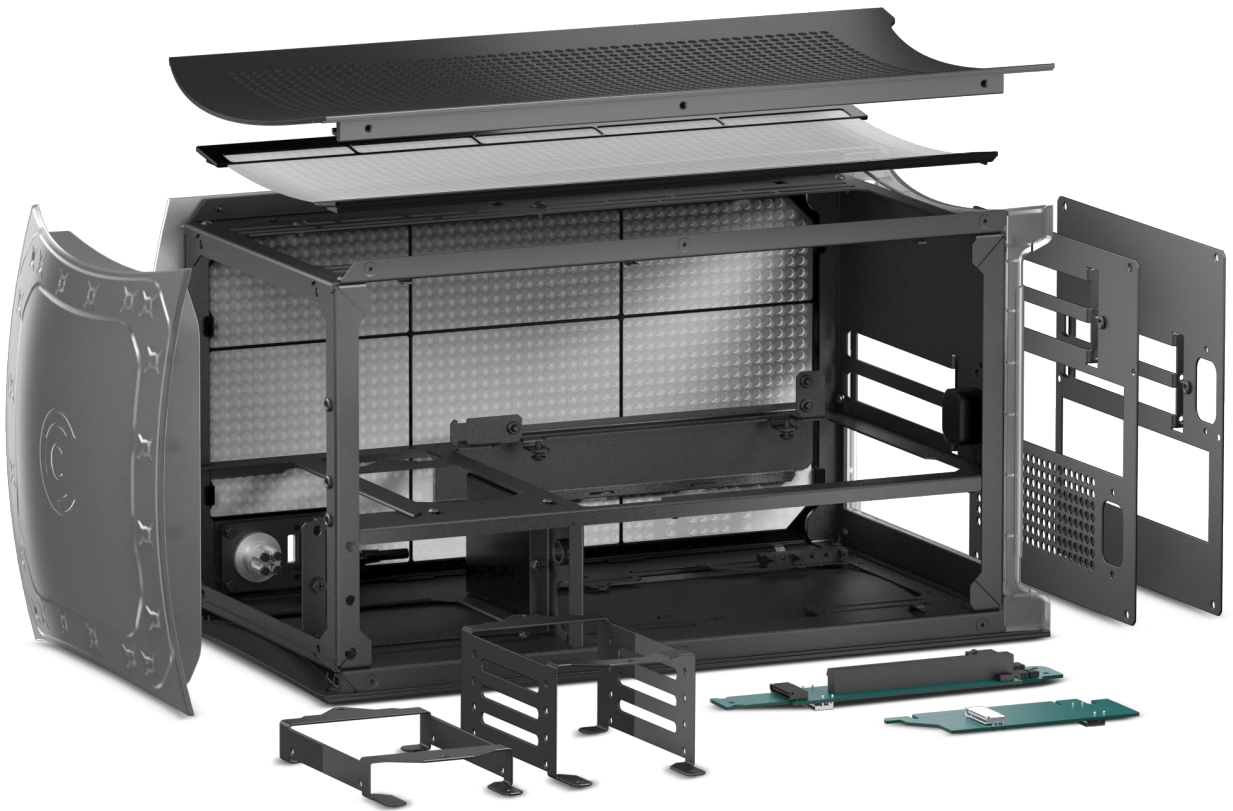
MEMORY

Max. height 52mm

COMPONENT	DIY LC CONFIGURATION (With integrated front-panel reservoir)*	
	STANDARD	+18
CPU COOLING	56mm height** <ul style="list-style-type: none"> CPU/MoBo fullcover waterblock with angled fitting 	74mm height** <ul style="list-style-type: none"> CPU/MoBo fullcover waterblock with angled fitting Optional slim 120mm fan on the bottom of chassis
GPU COOLING	<ul style="list-style-type: none"> 2.5 slot air-cooled GPU GPU waterblock 	<ul style="list-style-type: none"> 2.0 slot air-cooled GPU GPU waterblock

* — When reservoir back panel with pump and HW Labs GTS280mm radiator are removed "DIY LC" becomes a "Case" configuration with compatibility listed below.

** — HDD/SSD or FAN on the bottom of the chassis interfere with this height.



OTTO CASE

Only Case for your air-cooled or AIO-based builds.

TECH SPECIFICATION

DIMENSIONS	405mm x 211mm x 190mm (15.9in x 8.3in x 7.5in)
VOLUME	13.8L
WEIGHT	3.5 KG
CHASSIS	Otto semi-transparent small form factor, 2mm-thick aluminum panels on neodymium magnets
RISER	Comino PCIe x16 high-end riser board with flexible cable
MECHANICAL POWER BUTTON	Anti-vandal Comino Otto Button, stainless steel, white LED ring
RGB LED LIGHTING	ASUS Aura-compatible RGB stripes: one RGB LED stripe at the front and two addressable RGB LED stripes along the case sides
ADD-ONS	Additional back panels, basket for 4 HDD/SSD

COMPATIBILITY DETAILS

MOTHERBOARDS	All Mini-ITX motherboards
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GPU	<p>Compatible with full-sized GPUs and even with strix versions</p> <ul style="list-style-type: none">• Max. height from bottom of PCIe slot to top: 150mm• Max. width without backplate: 40mm; including backplate: 45mm• Max. length without bracket: 295mm; including bracket: 306mm
CPU	<p>Any compatible with chosen MoBo and cooling system</p>
CPU AIOS	<ul style="list-style-type: none">• +18mm configuration: 2x120mm or 2x140mm AIO on the CPU• +54mm configuration: 1x120mm radiator with an AIO
STORAGE	<ul style="list-style-type: none">• 1x 2.5" HDD/SSD: max. height 9mm• M.2 on Motherboard (if MoBo supports)
PSU	<p>Any SFX PSU (NON SFX-L)</p>
FANS	<p>Compatible with:</p> <ul style="list-style-type: none">• 2x 140mm or 2x 120mm on top• 1x 120mm or 1x 140mm at bottom
AIR COOLER CPU	<p>Max. height 60mm</p>
MEMORY	<p>Max. height 52mm</p>
RADIATOR	<p>Compatible with 120mm (incl. X-flow), 240mm (incl. X-flow), 280mm; full liquid up to 60mm height</p>
RESERVOIR	<p>Integrates with Comino Reservoir GS Otto for liquid cooling, translucent, volume 320ml, with 5 G1/4 ports on the back panel, might be used for output and for input</p>

COMPONENT	CASE CONFIGURATION (Without integrated front panel reservoir)		
	STANDARD	+18	+54
CPU COOLING	56mm height* <ul style="list-style-type: none"> • Middle-profile AIO waterblock with 1x/2x FAN Radiator** • Low-profile air-cooling radiator 	74mm height** <ul style="list-style-type: none"> • Middle-profile AIO waterblock with 1x/2x FAN Radiator*** • Optional slim 120mm fan can be used with middle-profile AIO or regular waterblocks • Middle-profile air-cooling radiator 	110mm height* <ul style="list-style-type: none"> • Low-profile AIO waterblock with 1x FAN radiator**** • Middle-profile air-cooling radiator
GPU COOLING	• 2.5 slot air-cooled GPU	• 2.5 slot air-cooled GPU	• 2.5 slot air-cooled GPU

* — HDD/SSD or FAN on the bottom of the chassis interfere with this height.

** — Radiator is mounted on the top of the chassis in the GPU chamber. Overall thickness of the radiator and fans up to 85mm (30-60mm radiator and 25mm fans). 120mm/140mm fans can be used.

*** — Radiator is mounted on the top of the chassis in the GPU chamber. Overall thickness of the radiator and fans up to 55mm (30mm radiator and 25mm fans).

**** — Radiator is mounted on the bottom of the chassis in the MoBo chamber. Overall thickness of the radiator and fan up to 85mm (30-50mm radiator and 25mm fans).

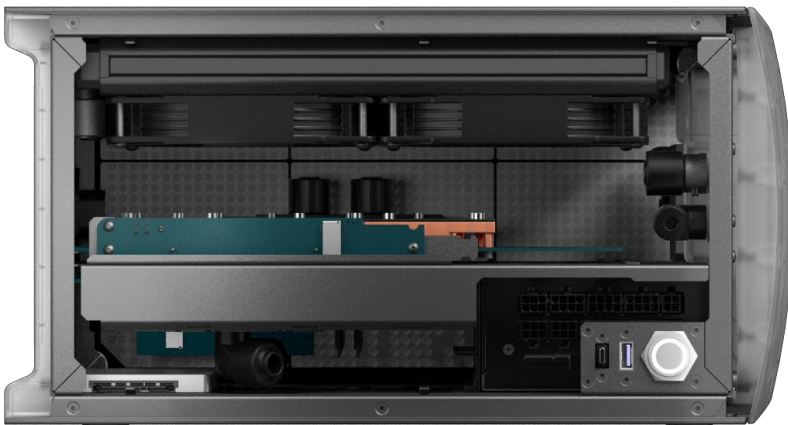
TRANSFORMATIONS EXAMPLES

STANDARD TRANSFORMATION

is designed for building liquid-cooled and hybrid systems. It's possible to install a GPU on air cooling. This is the configuration we use at Comino for assembling our systems. It works best for liquid cooling.

LIQUID-COOLED

CPU WATERBLOCK / GPU WATERBLOCK



CPU cooler

up to 56mm height.

Any water block with 90° fittings or AIO (Corsair, NZXT, Cooler Master, etc.)

GPU cooler

any water block or up to 2.5 slot air-cooled GPU while using 30mm liquid-cooling radiator with 25mm thick radiator fans.

HYBRID

AIO CPU / 2.0 SLOT GPU



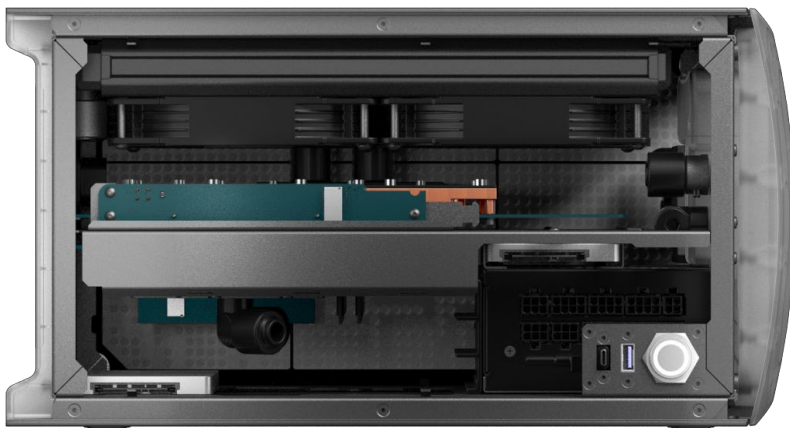
TRANSFORMATIONS EXAMPLES

+18MM TRANSFORMATION

is designed for liquid-, air-cooled and hybrid systems. It's possible to install 2x120mm or 2x140mm AIO on the CPU.

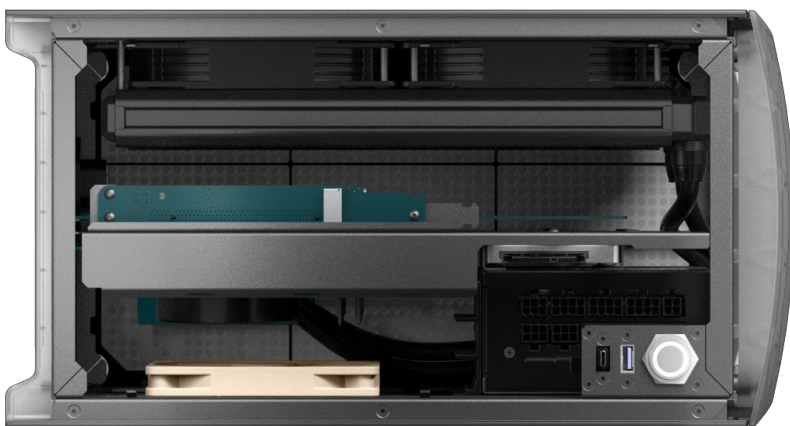
LIQUID-COOLED

CPU WATERBLOCK / GPU WATERBLOCK
/ 2x 2.5" SSD/HDD



HYBRID

AIO CPU / 2.0 SLOT GPU / SLIM FAN



CPU cooler

up to 74mm height.
Any water block with 90° fittings or AIO (Corsair, NZXT, Cooler Master, etc).
You can also fit an additional 120mm slim fan to cool down the motherboard if you go for liquid cooling. For air cooling, you can fit small SFF air coolers or use Noctua NH-L12S if your motherboard is low profile and does not have high additional radiators installed.

GPU cooler

any water block or up to 2 slot air-cooled GPU while using 30mm liquid cooling radiator +25mm thick radiator fans. Any GPU if a liquid-cooled radiator is not used.

Extra 2.5" SSD/HDD basket

there is an extra basket for one extra SSD/HDD (up to 14.3mm height).

TRANSFORMATIONS EXAMPLES

+54MM TRANSFORMATION

is designed for air or hybrid systems. It's possible to install 1x120mm radiator with an AIO.

AIR-COOLED

ANY SFF AIR COOLER / 2.5 SLOT GPU
/ 4x 2.5" SSD/HDD



HYBRID

AIO CPU 120 / 2.5 SLOT GPU / 4x 2.5" SSD/HDD



CPU cooler

up to 110mm height.

That is any SFF air cooler (we recommend Noctua NH-L12S) or compact AIO like Corsair H60.

GPU cooler

any air-cooled GPU
up to 2.5 slot.

Extra 2.5" SSD/HDD basket

there is an extra basket for four extra 2.5" SSDs/HDDs.



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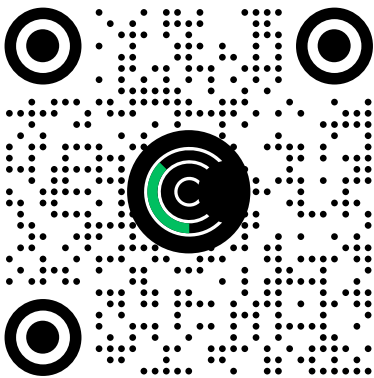


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