

COMINO RM V2 (L/S)

HIGH PERFORMANCE LIQUID-COOLED MULTI-GPU WORKSTATIONS

KEY ADVANTAGES

TOP OF THE LINE SOLUTION FOR AI, MACHINE LEARNING, VIDEO PRODUCTION AND RENDERING

We manufacture high-end Workstation devices for office and data center usage, racking powerful hardware with up to 6 full-sized GPUs into a small form factor machine with liquid cooling for unmatched performance in GPU-related workflows like rendering, computer generated imagery, video production, scientific calculations, AI.

CONFIDENCE AND STABILITY. RESULTS DELIVERED

To ensure hardware stability we supply our devices with custom-designed and thermally-tested full cover copper water blocks to cool all the crucial components: the CPU, GPUs, GDDR, VRM modules on the motherboard and graphics cards. The devices stay cool, stable and will serve you longer. External liquid-cooling system controller monitors system parameters to halt operations if any faults occur.

QUIETLY OUTPERFORMS ANY SIMILAR AIR-COOLED SOLUTION

Comino liquid-cooling system is based on the deformational cutting micro-fin technology that is capable of creating a fin as thin as 0.1mm with a 0.1mm channel and 3mm height. As a result the heat is dissipated fast enough to keep GPU temperatures within a safe range even at 24/7 operation and prevent thermal throttling. You can overclock those and get even more performance!



GPU-Accelerated liquid-cooled Workstation for AI, machine learning, video production, rendering, and more.

FEATURES

- Up to 6 GPUs depending on the power consumption
- compatible with any up-to-date GPU, including: nVidia RTX 3080, RTX 3090, A100, A40, RTX A6000 and more;

AMD Radeon 6800XT, 6900XT, PRO VII, Pro V520, Instinct MI100 and more.

- Up to 7 PCle x16 Gen.4 slots
- Can be used as a desktop workstation or put in a 19" rack
- · Integrated complete liquid cooling system
- High quality cooling of crucial elements the MB, the CPU, the VRM, the GPUs
- Independent cooling system controller with a self-diagnostic function and protections
- Almost silent operation as compared with similar air-cooled solutions
- Up to 20% faster than similar air-cooled solutions
- Prolonged lifetime due to the lower temperature of the hardware components

6 GPUs





on DESK/RACK







SIMPLE MAINTENANCE.

ENERGY SAVING. RELIABLE. PRODUCTIVE.



3D Rendering















Video Editing















Architectural Visualization















Broadcasting















COMINO RM V2-L



SYSTEM OVERVIEW

Maximum Cooling Capacity	1900W Maximum cooling capacity is ensured @ 20C intake air T and "performance mode" of the cooling system
Motherboard	Up to EATX
GPUs	Any, depending on power consumption
Processors	Up to 2
Sockets	Intel: LGA2066, LGA1200*, FCLGA3647*, FCLGA4189* AMD: TR4, AM4*, SP3* *- available upon request
RAM	Up to 2TB, depending on the MB and the CPU
Cooling Capacity	2x ATX-L, 80+ Platinum/Titanium (1500W each in standard configuration) To ensure ~95% power efficiency of our devices we use several PSUs both working in a sweet spot of 50-70% load

Full tech spec on p.11

RM V2-L COOLING CAPACITY CALCULATION EXAMPLES

CONFIGURATION REVIEW		TDP (WATTS)
CPU	AMD RYZEN THREADRIPPER PRO 3975WX	280
GPU	5x NVIDIA RTX A100	5 x 300
System Configured Total Power		1780
COMINO RM V2-L Cooling Capacity		1900*

CONFIGURATION REVIEW		TDP (WATTS)
CPU	AMD RYZEN THREADRIPPER PRO 3975WX	280
GPU	4x NVIDIA RTX 3090 24GB	4 x 350
System Configured Total Power		1680
COMINO RM V2-L Cooling Capacity		1900*

^{* –} Maximum cooling capacity is ensured @ 20C intake air T and "performance mode" of the cooling system

COMINO RM V2-S



SYSTEM OVERVIEW

Full tech spec on p.11

Maximum Cooling Capacity	1400W Maximum cooling capacity is ensured @ 20C intake air T and "performance mode" of the cooling system
Motherboard	Up to EATX
GPUs	Any, depending on power consumption
Processors	Up to 2
Sockets	Intel: LGA2066, LGA1200*, FCLGA3647*, FCLGA4189* AMD: TR4, AM4*, SP3* *- available upon request
RAM	Up to 2TB, depending on the MB and the CPU
Cooling Capacity	3x SFX, 80+ Platinum/Titanium (750W each in standard configuration) To ensure ~95% power efficiency of our devices we use several PSUs both working in a sweet spot of 50-70% load

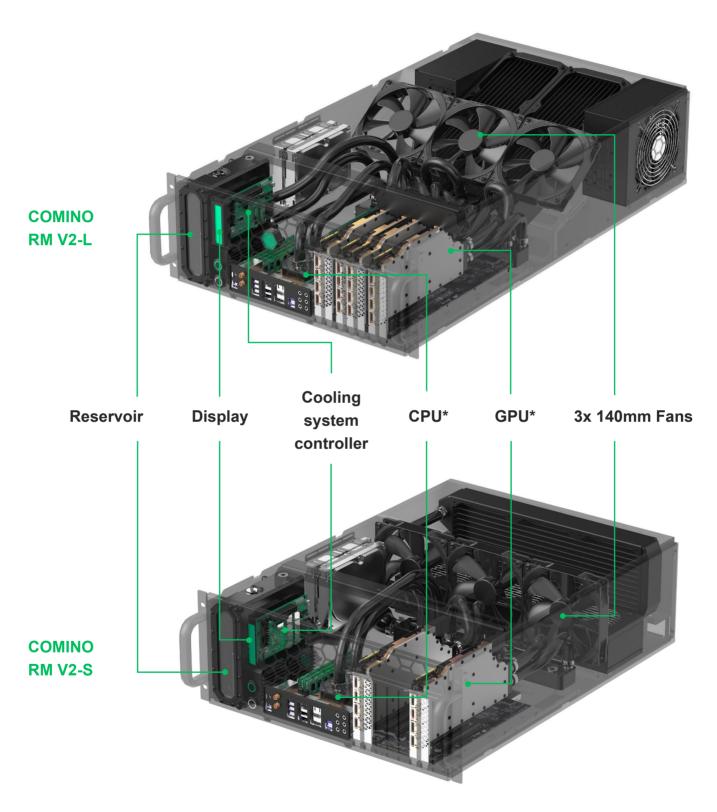
RM V2-S COOLING CAPACITY CALCULATION EXAMPLES

	CONFIGURATION REVIEW	TDP (WATTS)
CPU	AMD EPYC 7313P	180
GPU	4x NVIDIA RTX A6000 48GB	4 x 300
System Configured Total Power		1380
COMINO RM V2-S Cooling Capacity		1400*

	CONFIGURATION REVIEW	TDP (WATTS)
СРИ	AMD RYZEN THREADRIPPER 3970X	280
GPU	2x NVIDIA RTX 3080 10GB	2 x 320
System Configured Total Power		920
COMINO RM V2-S Cooling Capacity		1400*

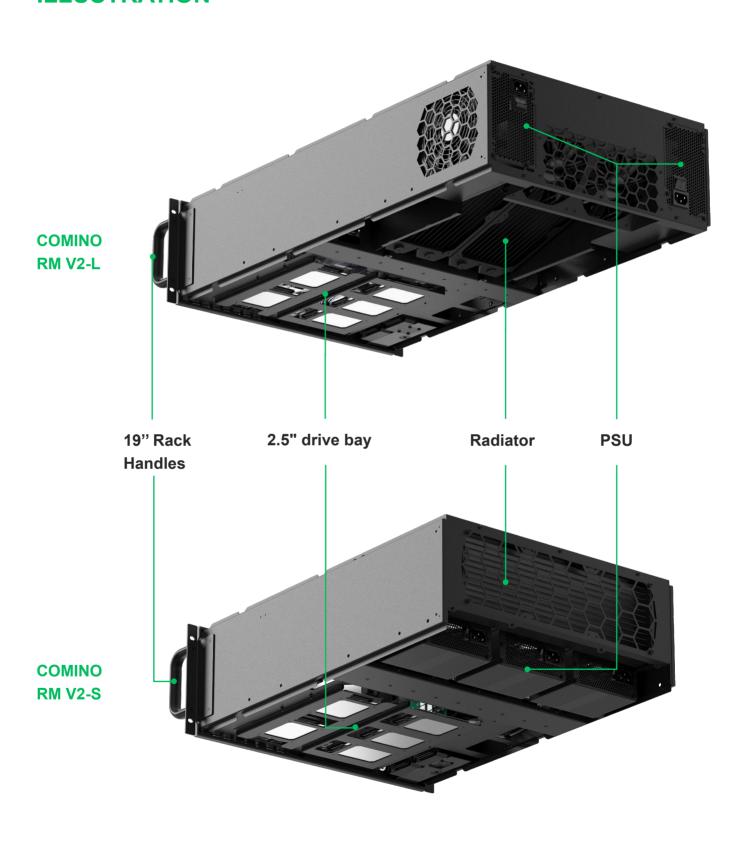
^{* –} Maximum cooling capacity is ensured @ 20C intake air T and "performance mode" of the cooling system

FRONT VIEW ILLUSTRATION



^{*} Different configurations available.

BACK VIEW ILLUSTRATION



MAX COOLING CAPACITY VS AMBIENT TEMPERATURE

The graph shows how the cooling capacity for the chosen profile depends on the ambient temperature.

RESEARCHED PROFILES

Performance: target coolant T = 35°C

Normal: target coolant T = 40°C

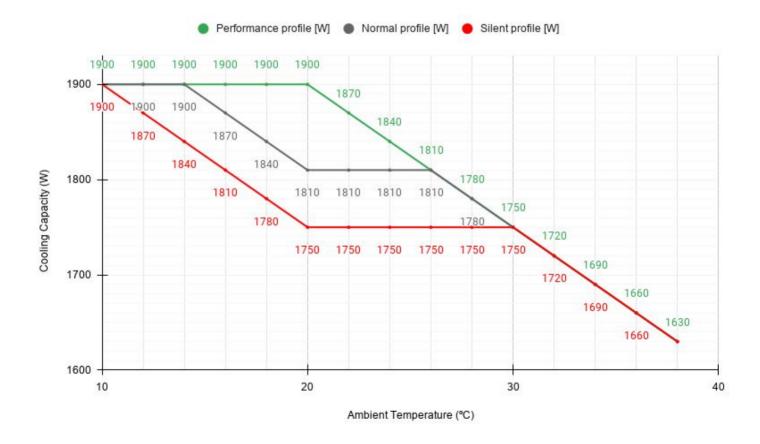
Silent: target coolant T = 45°C

AMBIENT TEMPERATURE RANGE

10°C - 40°C

RESULT

MAX cooling capacity (1900W) at the performance-efficient profile usage is available at up to 20°C. Efficiency degradations are found at higher ambient temperatures. To ensure the safety of internal components, the possibility of system operation at temperatures above 38°C is blocked.



DATASHEET COMINO RM V2

	V2-S	V2-L
Chassis	Short	Long
GPUs:	Any, depending on power consumption	
examples for Nvidia	RTX 3080, RTX 3090, A100, A40, A6000	
examples for AMD	Radeon 6800XT, 6900XT, PRO VII, Instinct MI100, Pro V520	
Processors	Up	o to 2
Intel Core sockets	LGA2066 (default configuration), L	LGA1200, FCLGA3647, FCLGA4189
AMD sockets	TR4 (default configuration), AM4, SP3	
RAM	Up to 2TB, depending on the MB and the CPU	
M2 drives	Up to 4x NVME	
2.5" drives	Up to 5 (more drives upon request)	
3.5" drives	Up to 2 (more drives upon request)	
Motherboards:	Up to EATX	
Cooling Capacity:	1400W	1900W
PSU	3x SFX (750W in standard configuration)	2x ATX-L (1500W in standard configuration)
Max PSU load	100-240Vac 9-4A	110-240Vac 16-9A
Noise level	Silent in the office job, low in 3/5 load, audible under the full load	
Lan	Up to 200 Gb/s	
os	Ubuntu / Win10 (Pro/Home) / Windows Server	
Liquid cooling:	CPU + VRM (fullcover), GPU	
Reservoir	Comino custom 450ml with integrated pumps	
Pumps	2x 18W	
Radiators	1x 360mm core	2x 360mm core
Fans	3x 140mm Noctua NF-A14 iPPC 3000 rpm	3x 140mm Noctua NF-A14 iPPC 3000 rpm 2x 120mm Noctua NF-F12 iPPC 3000 rpm
Installation	Table: Vertical / Horizontal; 19" rack: Horizontal with mount rails / ears kit	
Required rack space	4U	
Dimensions (without rack-mounting handles)	442 x 619 x 177 mm	442 x 812 x 177 mm
Operating & storage temperature range	Storage: -550°C Operating: 338°C	

COMINO RM V2

CAN BE USED AS A WORKSTATION OR PUT IN A RACK



DATASHEET COMINO RM V2







DATASHEET COMINO RM V2

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CONTACTS

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