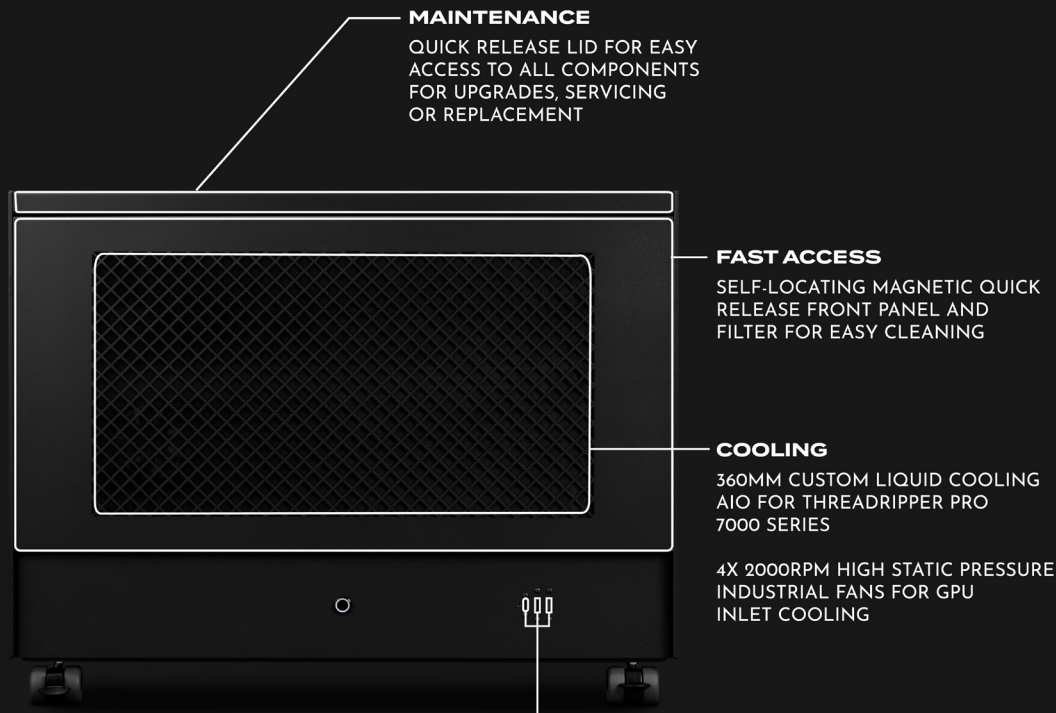# THE MOLECULE AIR

VIRTUAL PRODUCTION / RENDER NODE

The Molecule Air, designed to deliver unparalleled GPU compute power in a rugged and highly serviceable 8-way GPU form factor. Initially designed to be the ultimate virtual production rig, the Air is incredibly versatile and built to handle non-stop render action. With advanced cooling technology, including up to 96 core Threadripper Pro technology with closed loop liquid cooling, the Molecule Air keeps the GPU temperature under control, enabling the system to operate at maximum performance without any thermal throttling. Whether you are a 3D artist, game developer, or a team in need of extreme GPU power, the Molecule Air is the ultimate choice for your high-performance computing needs.

Official system integrator

AMD

Proudly incorporating hardware from our trusted partners

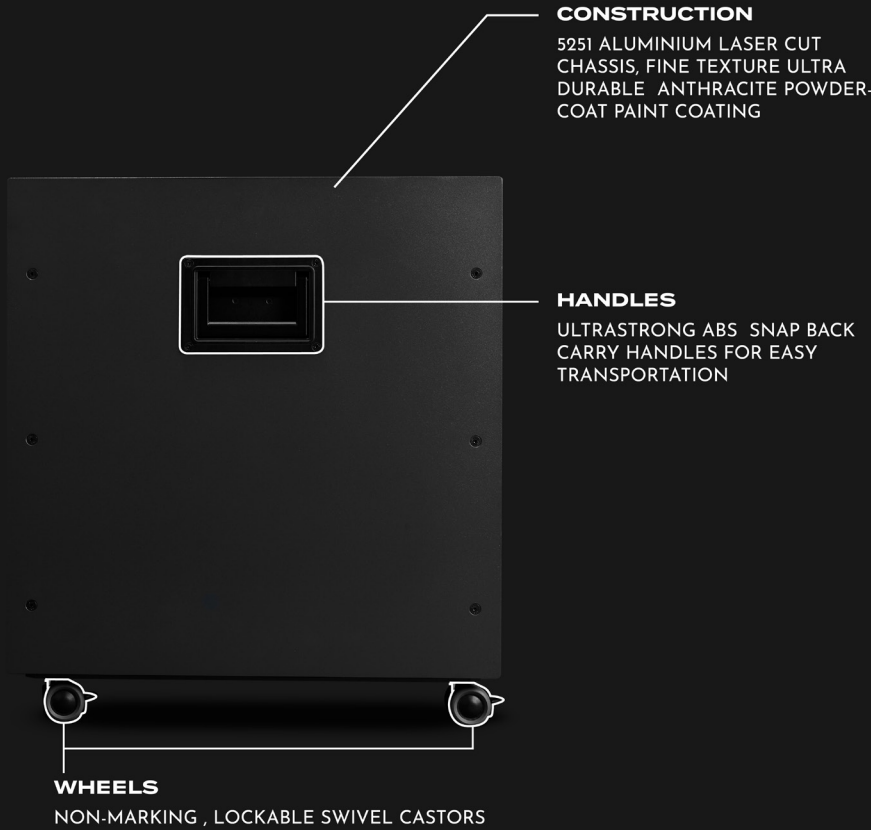ASRock · ASUS · Kingston TECHNOLOGY · NVIDIA · PNY · SOLIDIGM

RENDERBOXES

MAINTENANCE
QUICK RELEASE LID FOR EASY
ACCESS TO ALL COMPONENTS
FOR UPGRADES, SERVICING
OR REPLACEMENT

FAST ACCESS
SELF-LOCATING MAGNETIC QUICK
RELEASE FRONT PANEL AND
FILTER FOR EASY CLEANING

COOLING
360MM CUSTOM LIQUID COOLING
AIO FOR THREADRIPPER PRO
7000 SERIES

4X 2000RPM HIGH STATIC PRESSURE
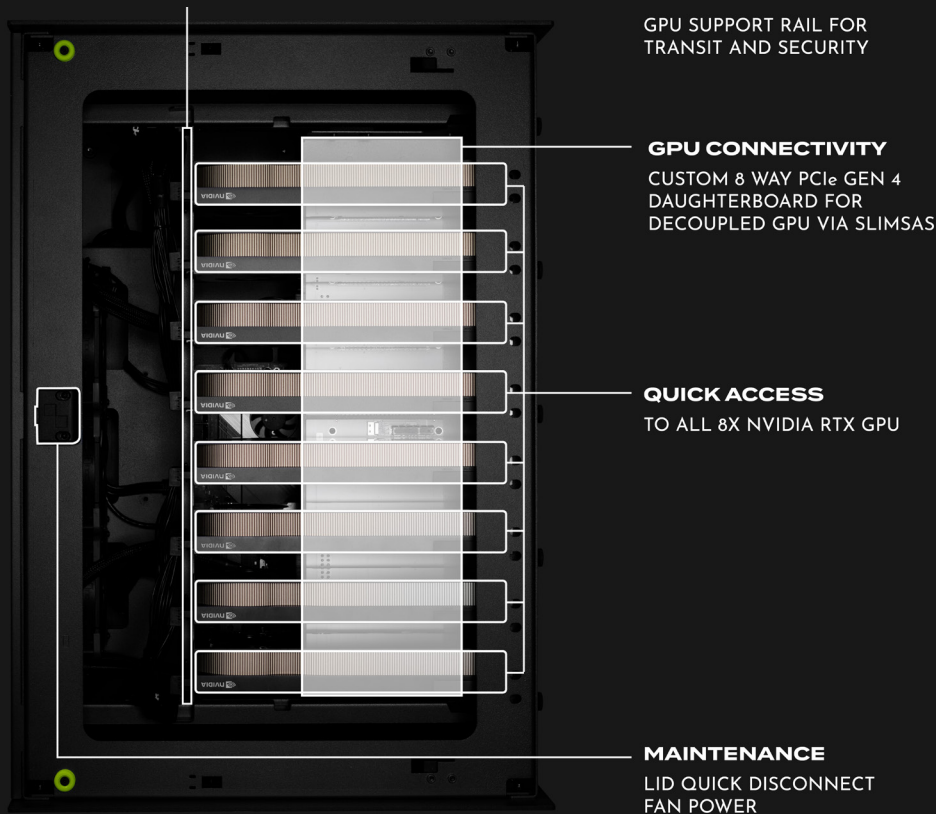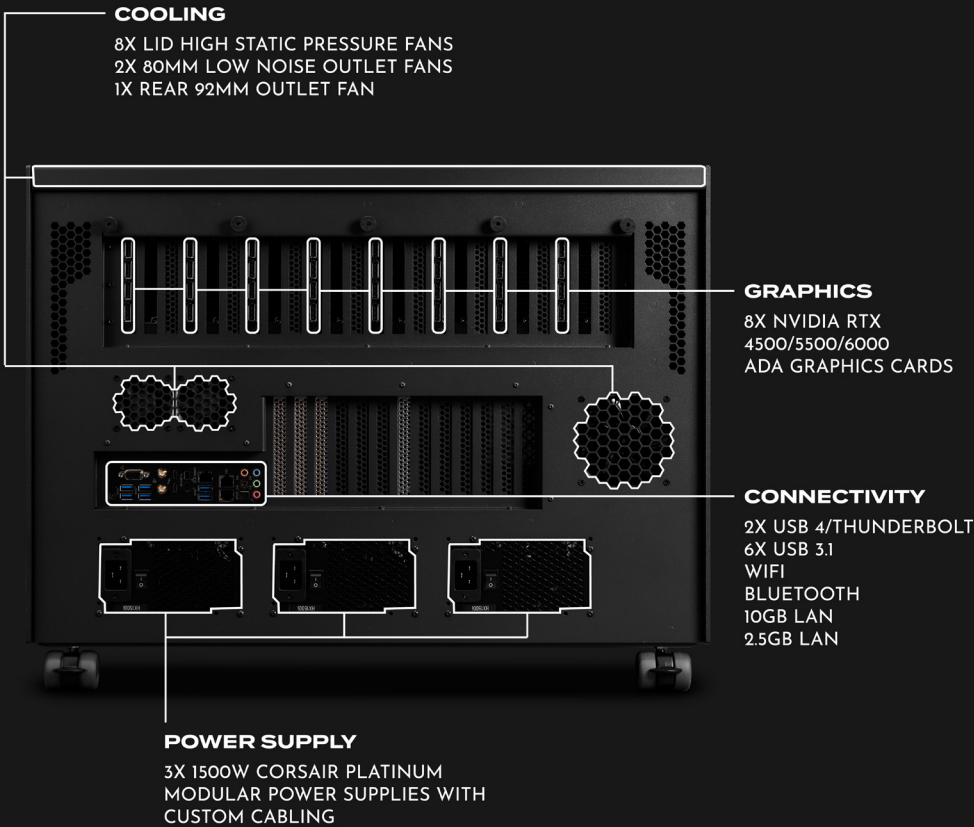INDUSTRIAL FANS FOR GPU
INLET COOLING

CONNECTIVITY
FRONT PANEL MOUNTED
USB-C WITH 10GB/S
UP AND DOWN STREAM
2X USB-A 3.1 PORTS

CONSTRUCTION
5251 ALUMINIUM LASER CUT
CHASSIS, FINE TEXTURE ULTRA
DURABLE ANTHRACITE POWDER-
COAT PAINT COATING

HANDLES
ULTRASTRONG ABS SNAP BACK
CARRY HANDLES FOR EASY
TRANSPORTATION

WHEELS
NON-MARKING , LOCKABLE SWIVEL CASTORS

COOLING

8X LID HIGH STATIC PRESSURE FANS
2X 80MM LOW NOISE OUTLET FANS
1X REAR 92MM OUTLET FAN

GRAPHICS

8X NVIDIA RTX
4500/5500/6000
ADA GRAPHICS CARDS

CONNECTIVITY

2X USB 4/THUNDERBOLT
6X USB 3.1
WIFI
BLUETOOTH
10GB LAN
2.5GB LAN

POWER SUPPLY

3X 1500W CORSAIR PLATINUM
MODULAR POWER SUPPLIES WITH
CUSTOM CABLING

GPU SUPPORT RAIL FOR
TRANSIT AND SECURITY

GPU CONNECTIVITY

CUSTOM 8 WAY PCIe GEN 4
DAUGHTERBOARD FOR
DECOUPLED GPU VIA SLIMSAS

QUICK ACCESS

TO ALL 8X NVIDIA RTX GPU

MAINTENANCE

LID QUICK DISCONNECT
FAN POWER

MOLECULE AIR | Datasheet | 2024

Specification Overview

Core System - Molecule Air Core

CPU
AMD Ryzen Threadripper PRO 7965WX 24 Core
AMD Ryzen Threadripper PRO 7975WX 32 Core
AMD Ryzen Threadripper PRO 7985WX 64 Core
AMD Ryzen Threadripper PRO 7995WX 96 Core

RAM
128GB DDR5 RDIMM 5200Mhz ECC 4x32GB
256GB DDR5 RDIMM 5200Mhz ECC 8x32GB
256GB DDR5 RDIMM 5200Mhz ECC 4x64GB
512GB DDR5 RDIMM 5200Mhz ECC 8x64GB
1.0TB DDR5 RDIMM 4800Mhz ECC 8x128GB
2.0TB DDR5 RDIMM 4800Mhz ECC 8x256GB

GPU
4x Nvidia RTX 4500 Ada 24GB ECC
4x Nvidia RTX 5000 Ada 32GB ECC
4x Nvidia RTX 6000 Ada 48GB ECC
8x Nvidia RTX 4500 Ada 24GB ECC
8x Nvidia RTX 5000 Ada 32GB ECC
8x Nvidia RTX 6000 Ada 48GB ECC

Storage

NVMe Drive 1
Solidigm P44 Pro Gen 4 1TB
Solidigm P44 Pro Gen 4 2TB
Crucial T700 Gen 5 2TB
Crucial T700 Gen 5 4TB

NVMe Drive 2
Solidigm P44 Pro Gen 4 1TB
Solidigm P44 Pro Gen 4 2TB
Crucial T700 Gen 5 2TB
Crucial T700 Gen 5 4TB

NVMe Drive 3
Solidigm P44 Pro Gen 4 1TB
Solidigm P44 Pro Gen 4 2TB
Crucial T700 Gen 5 2TB
Crucial T700 Gen 5 4TB

NVMe Drive 4
Solidigm P44 Pro Gen 4 1TB
Solidigm P44 Pro Gen 4 2TB
Crucial T700 Gen 5 2TB
Crucial T700 Gen 5 4TB

NVMe PCIe RAID
16TB (4 X 4TB M.2 Hardware RAID)
32TB (8 X 4TB M.2 Hardware RAID)

U.2 Drive 1
Solidigm D5-P5336 Series 7.68TB
Solidigm D5-P5336 Series 15.36TB
Solidigm D5-P5336 Series 30.72TB
Solidigm D5-P5336 Series 61.44TB

U.2 Drive 2
Solidigm D5-P5336 Series 7.68TB
Solidigm D5-P5336 Series 15.36TB
Solidigm D5-P5336 Series 30.72TB
Solidigm D5-P5336 Series 61.44TB

USB-C PCIe Adapter
4-port USB-C 10Gbps (USB 3.2 Gen 2)
8-port USB-C 10Gbps (USB 3.2 Gen 2)

Operating System
Microsoft Windows 11 Pro
Microsoft Windows 11 Pro For Workstations
Linux Ubuntu 22.04.3 LTS
Linux Rocky 9

Connectivity
4x USB 3.2 Gen2
5x USB 3.2 Gen1
Front panel USB Type-C
7.1 CH HD Audio
2x 10Gb/s LAN
1x Dedicated IPMI LAN
Intel® 802.11ax (WiFi 6E) + Bluetooth
HDMI + Displayport

To learn more about the Nano HEDT visit https://www.renderboxes.com/product/nano-hedt

System Cooling

360mm closed loop Asetek AIO liquid cooler
with dual 120mm fans

Power Consumption

3x Platinum 1500 watts power supply

Dimensions

67cm Height x 46cm Width x 44cm Depth

Weight

Approx. 39 Kg

Warranty

3 years on all parts, 1 year return to base on all labour.
Unlimited tech support** via remote/email/telephone.

RENDERBOXES

RENDERBOXES.COM

Renderboxes Limited
Innovation House
Innovation Way
Sandwich
CT13 9FF
UK

Registered Company Number. 11701666