



ASUS ROG Astral - -RTX5080- O16G-WHITE NVIDIA GeForce RTX 5080 16 GB GDDR7



Model: ROG-ASTRAL-RTX5080-O16G-WHITE

Manufacturer: ASUS

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Product Code: 549846

R61,937

The Final Frontier

The new ROG Astral family was inspired by the limitless expanse and beauty of the cosmos, and it is a testament to an unending dedication to exploring and defining new frontiers. In that spirit, the ROG Astral GeForce RTX 5080 White Edition introduces ROG's first quad-fan graphics card, coupled with a patented vapor chamber, increased heatsink fin density, a phase-change GPU thermal pad, towering default clock speeds, boosted power delivery, and more. These premium innovations – amplified by an eye-catching die-cast frame and metal GPU bracket – combine to deliver absolute performance that can handle even the most demanding gaming scenarios.

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NVIDIA Blackwell Architecture

The Ultimate Platform for Gamers and Creators

Fifth-Gen Tensor Cores

Max AI performance with FP4 and DLSS 4

New Streaming Multiprocessors

Optimized for neural shaders

Fourth-Gen Ray Tracing Cores

Built for Mega Geometry

Engineered for Excellence

Driven by a passion for innovation and the pursuit of precision, we crafted the ROG Astral. Inspired by the universe's wonders, it blends art and technology, achieving stellar cooling and unmated performance.

Cooling Expertise

Quad-Fan Force

A revolutionary four-fan design creates a powerful vertical airflow channel that boosts air pressure by up to 20%. This results in premium thermal performance that dramatically lowers GPU temperatures and minimizes hotspots, enabling unprecedented clock speeds.

Optimized Fin Spacing

The addition of a fourth fan permits more densely packed heatsink fins, increasing cooling potential.

Patented Vapor Chamber

A patented vapor chamber designed with milled pathways allows heatpipes to sink in without flattening, boosting heat dissipation efficiency. This innovative combo maximizes contact surface and improves thermal performance by over 10%.

MaxContact Design

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MaxContact is an ASUS-exclusive manufacturing technique that effectively increases the surface area of the GPU heat spreader by 5% for improved thermal efficiency.

Phase-Change GPU Thermal Pad

By melting to effectively fill the gaps between the GPU and the thermal module, a premium phase-change GPU thermal pad provides superior thermal conductivity and enhanced heat dissipation, ensuring optimal performance and longevity for graphics cards under heavy loads.

Unmatched Reliability

Premium Power Delivery

Powerful 50-amp MOSFETs with extra power phases to deliver over 25% more headroom than the standard design. This helps ensure enhanced performance, stability and higher overclocking potential.

ASUS GPU Guard & Bracket

ASUS GPU Guard applies adhesive to secure all four corners to reduce the risk of cracks, while a GPU bracket helps ensure uniform mounting pressure and extra stability.

Protective PCB Coating

A protective conformal coating envelops the circuit board to help protect against short-circuits caused by moisture, dust or debris.

Auto–Extreme Technology

An automated manufacturing process that sets new standards in the industry by allowing all soldering to be completed in a single pass, ASUS Auto-Extreme technology reduces thermal strain on components and avoids the use of harsh cleaning chemicals, resulting in less environmental impact, lower manufacturing power consumption and a more reliable product overall.

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Ultra Rigid Metal Case

A high-quality diecast frame, shroud, and backplate tightly brace the PCB for rigidity, and a 304 stainless steel I/O bracket plus bundled graphics card holder ensures stable mounting.

Game Friendly

GPU Tweak III: Effortless GPU Monitoring and Tuning

FanConnect II

Two PWM FanConnect headers provide additional DIY flexibility. Chassis fans can be directly synced with the card and tuned with a curve that is based on CPU and GPU temperatures, delivering extra intake or exhaust for demanding 3D tasks.

Dual BIOS

Do you prioritize low core temps or low noise levels? Performance mode lets the fans spin up to keep the card running cool all the time and Quiet mode keeps the same power target and top-end settings while offering a less aggressive fan curve for quieter operation at medium temperatures.

RTX. It's On.

The Ultimate in Ray Tracing and AI

RTX is the most advanced platform for full ray tracing and neural rendering technologies that are revolutionizing the ways we play and create. Over 700 games and applications use RTX to deliver realistic graphics and incredibly fast performance with cutting-edge AI features like DLSS Multi Frame Generation.

Creators

Your Creative AI-dvantage

NVIDIA Studio is your creative advantage. GeForce RTX 50 Series GPUs unlock transformative performance in video editing, 3D rendering, and graphic design. Experience RTX accelerations in top creative apps, world-class NVIDIA Studio drivers engineered and continually updated to provide maximum stability, and a suite of exclusive tools that harness the power of RTX for AI-assisted creative workflows.

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