

Built TUF

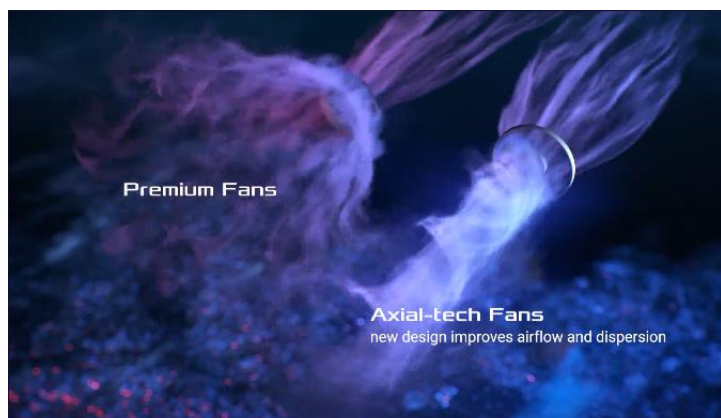
ASUS Innovations

- up to TBD MHz (Boost Clock)/TBD MHz (Game Clock) in OC mode
- **Axial-tech fan design** features a smaller fan hub that facilitates longer blades and a slimmed down barrier ring that provides better airflow through the cooling array.
- **Dual ball fan bearings** can last up to twice as long as sleeve bearing designs.
- A **2.7-slot design** expands cooling surface area to make the most of the powerful Axial-tech fans.
- An **all-aluminum shroud** and **metal backplate** enhance durability.
- A **144-hour validation program** puts cards through a series of stringent tests to ensure compatibility with the latest games.
- A **vented backplate** prevents hot air from recirculating through the cooling array.



Axial-tech Fan Design

Two tried-and-true Axial-tech fans feature a smaller hub that facilitates longer blades and a slimmed down barrier ring to provide better airflow through the cooling array.



Dual Ball Fan Bearings

Different bearing types have unique pros and cons. Ball bearings excel at durability and can last up to twice as long as sleeve bearing designs.



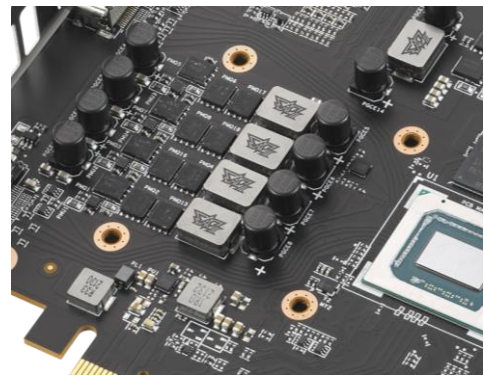
2.7-slot Design

The heat spreader draws heat up into heatpipes that carry it through a fin stack that fills most of the card's large, 2.7-slot footprint.



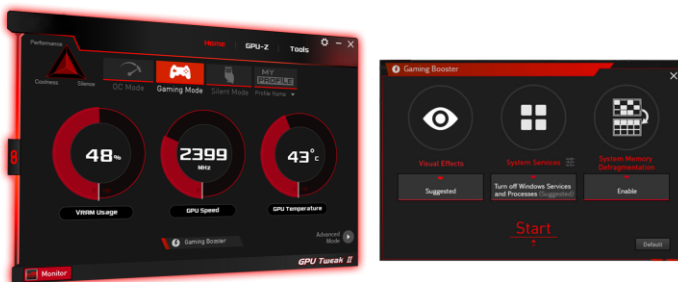
TUF Components

Robust military-grade capacitors were selected for the card's power design. They and other components are soldered to the PCB using our Auto-Extreme automated manufacturing process. Precise joints and the elimination of human error ensures each graphics card meets our rigorous specifications. To ensure flawless performance when it counts, the cards are subjected to a grueling 144-hour validation trial.



GPU Tweak II

The ASUS GPU Tweak II utility takes graphics card tuning to the next level. It allows you to tweak critical parameters including GPU core clocks, memory frequency, and voltage settings, with the option to monitor everything in real-time through a customizable on-screen display. Advanced fan control is also included along with many more features to help you get the most out of your graphics card.





ASUS Features

OC
Edition

OC edition

Up to TBD MHz GPU boost clock and 18Gbps memory speed in OC mode for outstanding gaming experience.

4GB GDDR6
Memory

4GB GDDR6 Memory

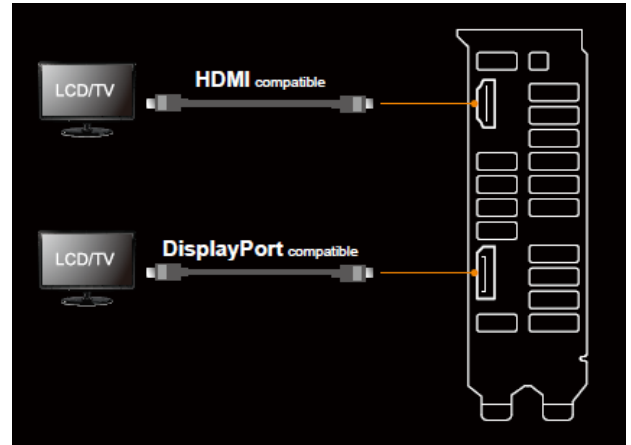
On-board memory for the best gaming experience & the best resolution.

0dB FAN
Silent Gaming

0dB Technology

Fans come to a standstill when the GPU temperature is under 50 Celsius, helping to reduce noise during light loads.

I/O Specifications



AMD Features

AMD
RDNA 2

AMD RDNA™ 2 Architecture

As the bedrock of the upcoming revolution in PC gaming graphics, console, and cloud gaming, AMD RDNA™ 2 is a breakthrough architecture elevating and unifying visuals and gameplay across multi-gaming platforms in a way like no other graphics architecture before.



Intense 1080p Performance

AMD Radeon™ RX 6500 XT graphics cards deliver serious 1080p gaming and impressive frame rates. The power of AMD RDNA™ 2 architecture is unleashed with up to 16 powerful graphics compute units, coupled with all ultra-high bandwidth AMD Infinity Cache™, and up to 4GB of dedicated GDDR6 memory.



Vivid Visuals

With immersive gaming technologies and support for DirectX® 12 Ultimate, AMD Radeon™ RX 6500 XT graphics cards draw you into the action. Experience gaming with realistic lighting, shadows, and reflections along with rich detail, thanks to DirectX® Raytracing (DXR), variable rate shading (VRS), and AMD FidelityFX™ technology features, optimized for AMD RDNA™ 2 architecture.



Get a Boost in Frames for Your Games

AMD FidelityFX Super Resolution2 (FSR) boosts your frame rates 2.4x on average in FSR supported games3 with high-quality, high-resolution gaming experiences delivered by AMD Radeon RX 6000 Series graphics cards. Optimize your gaming experience between four presets, ranging from best visual fidelity to maximum performance.



The Best Gaming Experience For The Best Gaming OS

AMD Radeon™ graphics with Windows 11 enables the ultimate gaming experience through superior graphics, amazing performance, optimized security features. With support for DirectX® 12 Ultimate, Auto HDR, AMD Radeon graphics, and Radeon™ software all stand ready to supercharge your gaming experience with Windows 11.

Specifications

Model name	TUF-RX6500XT-O4G-GAMING
Graphics Engine	AMD Radeon™ RX 6500 XT
Stream Processors	1024
OpenGL®	OpenGL® 4.6
Engine Clock	OC mode: up to TBD MHz(Boost Clock)/up to TBD MHz(Game Clock) Gaming mode: up to TBD MHz(Boost Clock)/up to TBD MHz(Game Clock)
Memory Interface	64-bit
Video Memory	4GB GDDR6
Memory Speed	18 Gbps
Power Connector	1 x 6-pin
I/O	1 x Native HDMI 2.1 1 x Native DisplayPort 1.4a
HDCP Compliant	HDCP 2.3
Digital Max. Resolution	7680 x 4320
Maximum Display Support	2
NVLink/Crossfire Support	Yes
Recommended PSU	500W
Bus Standard	PCIe 4.0
Package Contents	1 x Speedsetup Manual 1 x Collection Card
Software Bundled	ASUS GPU Tweak II & GeForce Game Ready Driver & Studio Driver: please download all software from the support site.
Slot	2.7 slot
Dimension	
Card Size (mm/inch)	250 x 147 x 54 mm 9.76 x 5.78 x 2.12 inch
Color Box (mm)	405 x 233 x 88.5 mm
Weight	
Single Card (KG)	0.881KG
Product Weight (with packing) (KG)	1.55KG



Note	* Our wattage recommendation is based on a fully overclocked GPU and CPU system configuration. For a more tailored suggestion, please use the “Choose By Wattage” feature on our PSU product page: https://rog.asus.com/event/PSU/ASUS-Power-Supply-Units/index.html * All specifications are subject to change without notice. Please check with your supplier for exact offers. Products may not be available in all markets. If you do not use the latest and current specifications of ASUS products, you shall be liable for all loss and damage claimed by third party to ASUS based on false advertising or any other issues caused from using false specifications of ASUS products. * Crossfire Support for DirecX® 12 and Vulkan® * ‘Game Clock’ is the expected GPU clock when running typical gaming applications, set to typical TGP (Total Graphics Power). Actual individual game clock results may vary. * ‘Boost Clock’ is the maximum frequency achievable on the GPU running a bursty workload. Boost clock achievability, frequency, and sustainability will vary based on several factors, including but not limited to: thermal conditions and variation in applications and workloads.
Regulation	■ S-AT2-001 GreenASUS Hazardous Substances Free(HSF) Technical Standard(Global RoHs,China RoHS,EU REACH,J-MOSS) ■ WEEE
Certifications	■ FCC ■ CE ■ C-TICK ■ BSMI ■ KCC ■ VCCI



TUF GAMING

