

TUF GAMING B450M-PRO S

[Descripción](#) [Especificaciones](#) [Noticias](#) [Soporte](#)

Tarjeta madre de gaming micro-ATX AMD B450 (AM4) con PCIe 3.0, dos M.2, 10 fases de poder DrMOS, 2.5 Gb Ethernet, Cancelación de ruido por IA, HDMI, DisplayPort, USB 3.2 Gen. 2 de tipo A y C e iluminación Aura Sync RGB

- **Alimentación mejorada:** 8+2 fases de poder, toma ProCool, componentes TUF y Digi+ VRM para una vida útil más larga.
- **Refrigeración completa:** Disipadores VRM, PCH y M.2, conectores de ventilación híbrida y Fan Xpert 2+.
- **Conectividad de próxima generación:** USB 3.2 Gen. 2 de tipo A y C.
- **Diseñada para gaming online:** Intel® Wi-Fi 6, 2.5 Gb Ethernet, TUF LANGuard y TurboLAN.
- **Códec Realtek S1200A:** Ofrece 108 dB de relación señal-ruido en la salida de línea estéreo y 103 dB SNR en la entrada de línea para disfrutar de sonido de alta fidelidad.
- **Cancelación de ruido asistida por IA** para que te comuniqués claramente mientras juegas.

Windows 11
Ready



DURABLE. STABLE. RELIABLE.

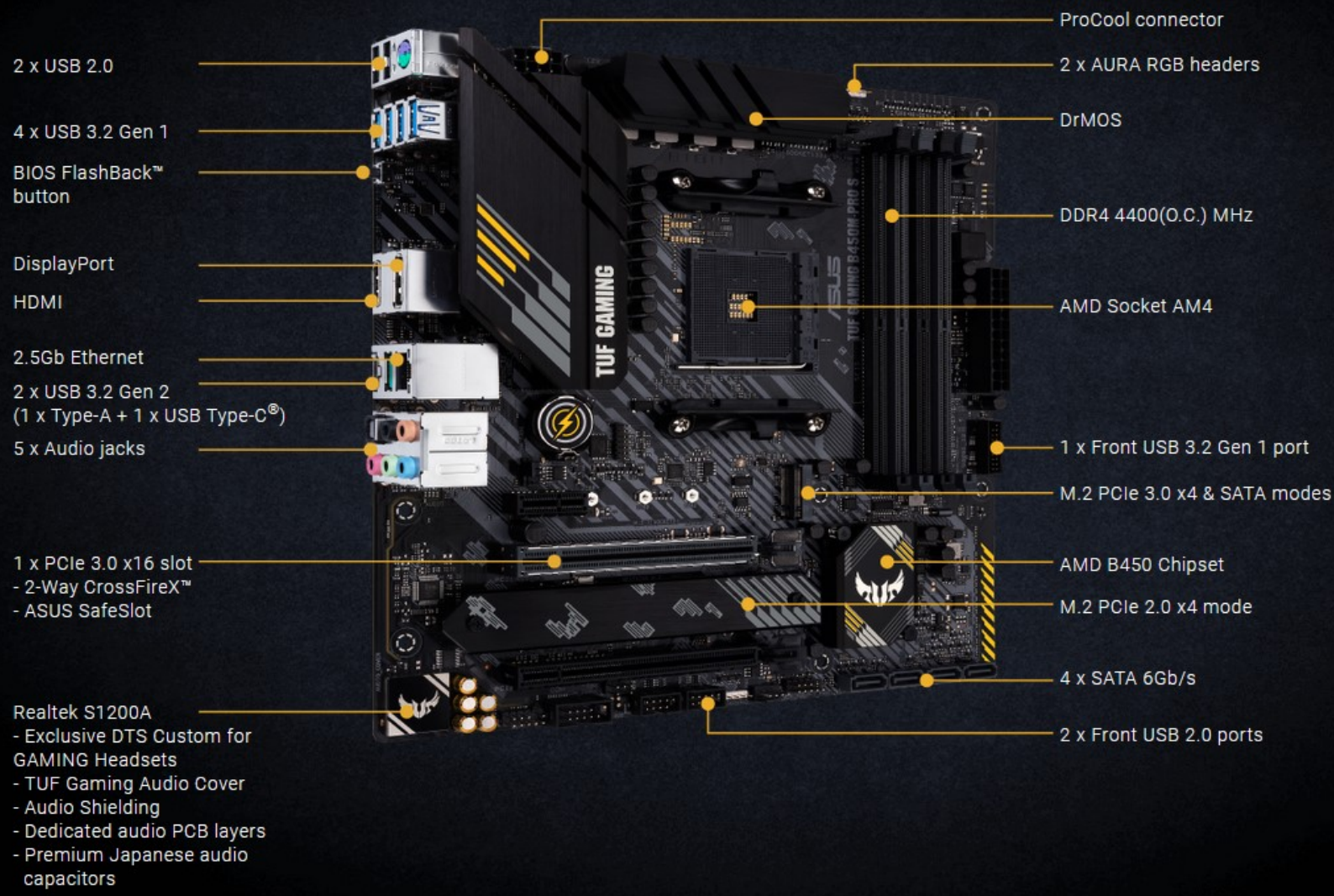
TUF Gaming motherboards are specially designed and tested to survive and thrive in conditions where other boards would struggle. Engineered with military-grade components, an upgraded power solution and a comprehensive set of cooling options, this motherboard delivers rock-solid performance with unwavering gaming stability.

When you build with a TUF Gaming motherboard, you also benefit from the TUF Gaming Alliance — an ASUS collaboration with trusted industry partners that ensures easier building, best compatibility, and complementary aesthetics from components to case.

AMD
SOCKET
AM4 | B450

RYZEN
AMD





2 x USB 2.0

4 x USB 3.2 Gen 1

BIOS FlashBack™
button

DisplayPort

HDMI

2.5Gb Ethernet

2 x USB 3.2 Gen 2
(1 x Type-A + 1 x USB Type-C®)

5 x Audio jacks

1 x PCIe 3.0 x16 slot
- 2-Way CrossFireX™
- ASUS SafeSlot

Realtek S1200A
- Exclusive DTS Custom for
GAMING Headsets
- TUF Gaming Audio Cover
- Audio Shielding
- Dedicated audio PCB layers
- Premium Japanese audio
capacitors

ProCool connector

2 x AURA RGB headers

DrMOS

DDR4 4400(O.C.) MHz

AMD Socket AM4

1 x Front USB 3.2 Gen 1 port

M.2 PCIe 3.0 x4 & SATA modes

AMD B450 Chipset

M.2 PCIe 2.0 x4 mode

4 x SATA 6Gb/s

2 x Front USB 2.0 ports

DRMOS

The onboard VRM of TUF GAMING B450M-PRO S utilizes 8+2 DrMOS power stages that combine high-side and low-side MOSFETs and driver into a single package, delivering the power and efficiency that 3rd Gen AMD Ryzen™ Processors demand.



STACK COOL 3+

2-ounce copper layers draw heat away from critical components to keep them at their optimal operating temperatures and provide more headroom to push CPUs beyond stock speeds.

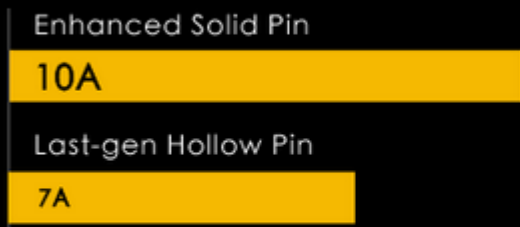


PROCOOL SOCKET

ENHANCED 8-PIN CONNECTOR

- Extreme durability
- Prevent hotspots and connector failure

Compared with traditional power inputs, ProCool sockets are built to tight specifications to ensure flush contact with PSU power lines. The resulting lower impedance helps to prevent hotspots and connector failure.



42% UP TO
IMPROVEMENTS

* The theoretical value is for reference only



TUF COMPONENTS



TUF CHOKES

Certified military-grade TUF chokes deliver rock-steady power to the CPU, improving system stability.



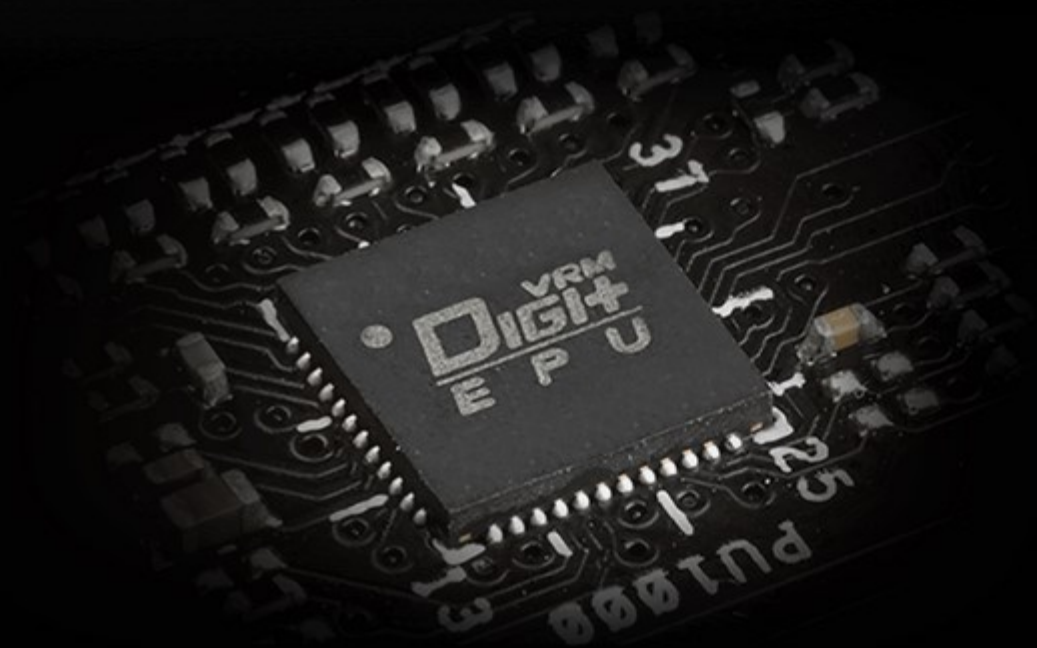
TUF CAPACITORS

Proprietary capacitors provide up to 20% greater temperature tolerance and 5X-longer lifespan.



DIGI+ VRM

The integrated Digi+ VRM voltage-regulator module (VRM) is one of the finest in the industry, ensuring ultra-smooth and ultra-clean power delivery to the CPU at all times.





BUILD WITH CONFIDENCE



TUF Gaming Alliance is a collaboration between ASUS and trusted PC-component brands to ensure compatibility with a wide range of parts, such as PC cases, power supplies, CPU coolers, memory kits and more. With more partnerships and components being added regularly, the TUF Gaming Alliance will continue to grow even stronger. [Learn More](#)

TUF PROTECTION

SAFESLOT

ESD GUARDS

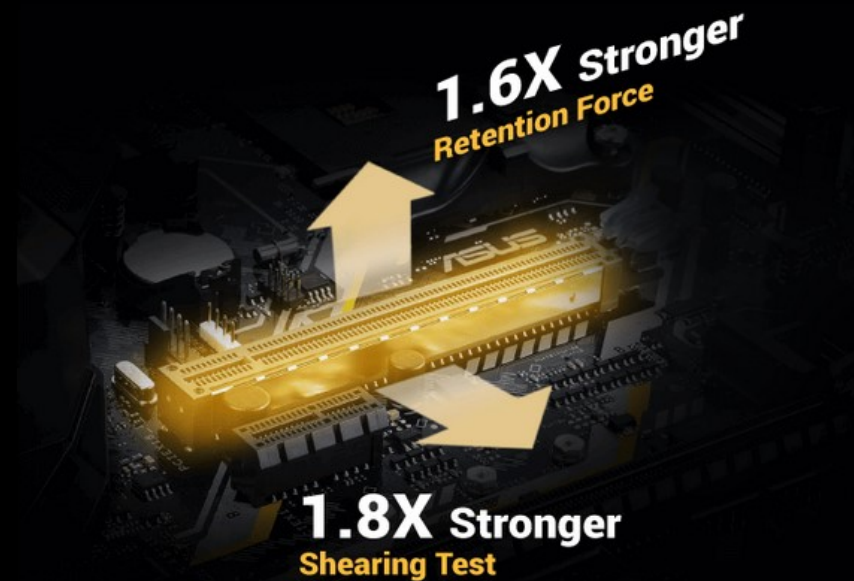
TUF LANGUARD

DRAM OVERVOLTAGE PROTECTION

STAINLESS-STEEL BACK I/O PANEL

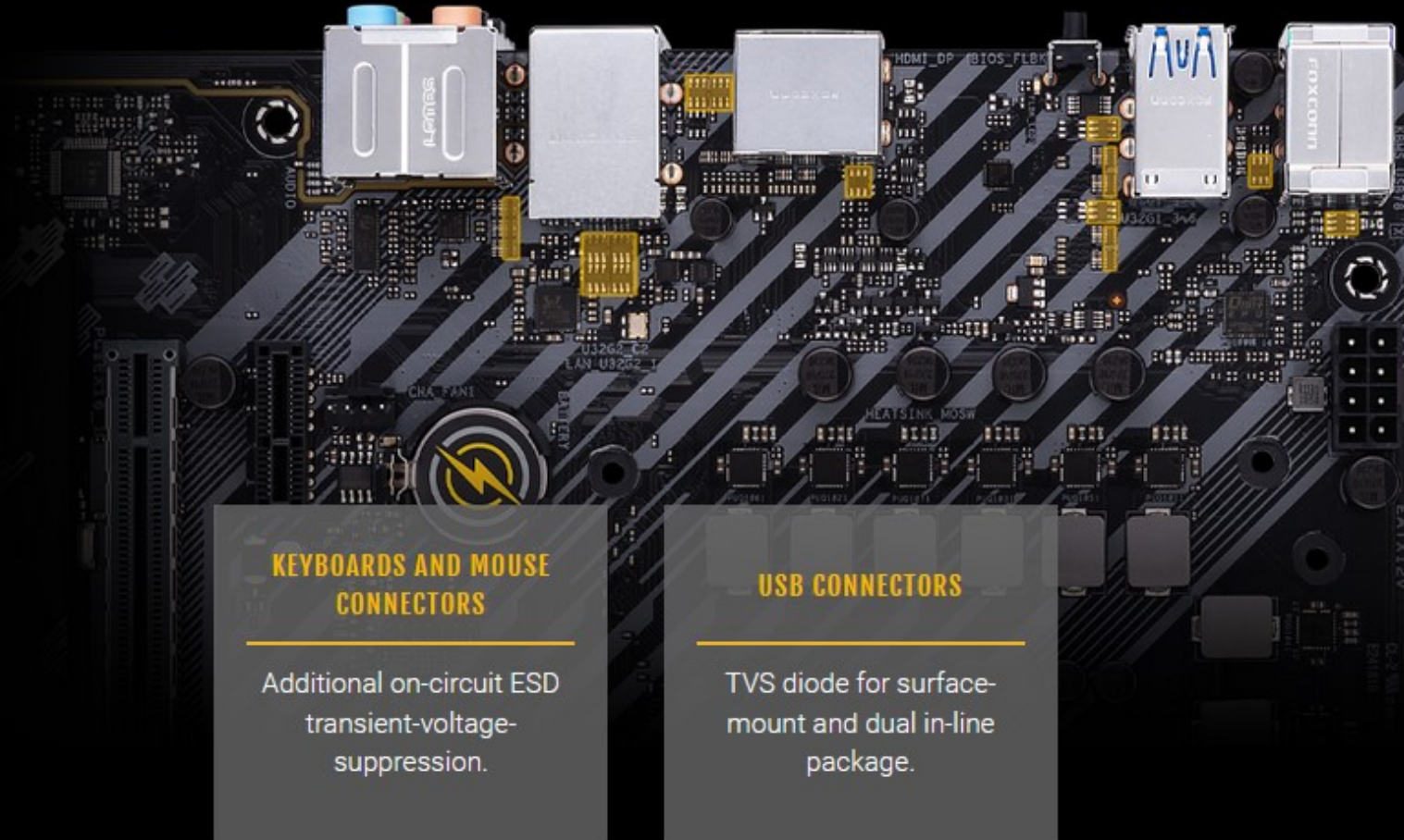
SAFESLOT

SafeSlot is the PCIe slot reinvented by ASUS and engineered to provide superior retention and shearing resistance. Manufactured via a new insert-molding process, SafeSlot integrates fortifying metal for an inherently stronger slot, which is then firmly anchored to the PCB through additional solder points.



ESD GUARDS

ESD Guards prolong the life of components while preventing damage from electrostatic discharge, providing protection for up to +/- 10 kV of air discharge and +/- 6 kV of contact discharge – greatly surpassing the respective industry standards of +/- 6 kV and +/- 4 kV.



KEYBOARDS AND MOUSE CONNECTORS

Additional on-circuit ESD transient-voltage-suppression.

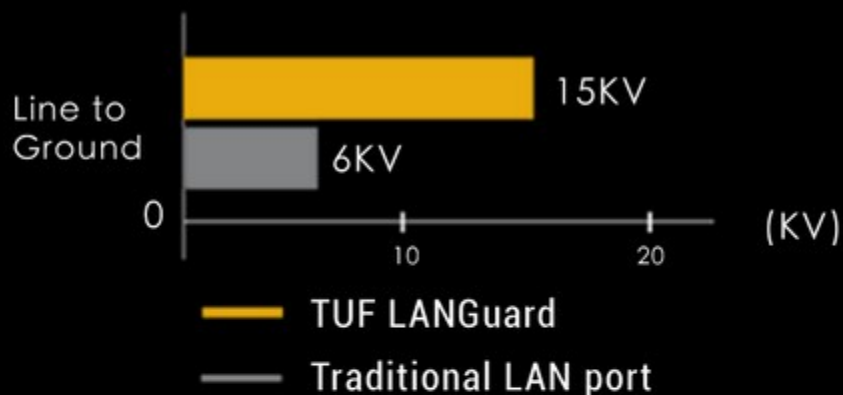
USB CONNECTORS

TVS diode for surface-mount and dual in-line package.

TUF LANGUARD

TUF LANGuard is a military-grade innovation that integrates advanced signal-coupling technology and premium surface-mounted capacitors to improve throughput, protecting the motherboard from lightning strikes and static electricity.

2.5X HIGHER SURGE TOLERANCE



* ESD result is undertaken by individual LANGuard





STAINLESS-STEEL BACK I/O PANEL

TUF Gaming motherboards have a corrosion-resistant stainless-steel back I/O panel bonded with chromium oxide to provide a 3X-longer lifespan versus traditional panels. With this protective feature, TUF Gaming motherboards passed 72-hour salt fog testing, while other brands only passed 24-hour testing.

A network chip labeled RTL8125B is shown against a glowing blue circuit board background. The chip is a small, dark rectangular component with the text "RTL8125B" printed on it in a bright yellow font. The background consists of intricate, glowing blue lines representing circuit traces, with small circular nodes at various points, creating a sense of digital connectivity and high-tech performance.

RTL8125B

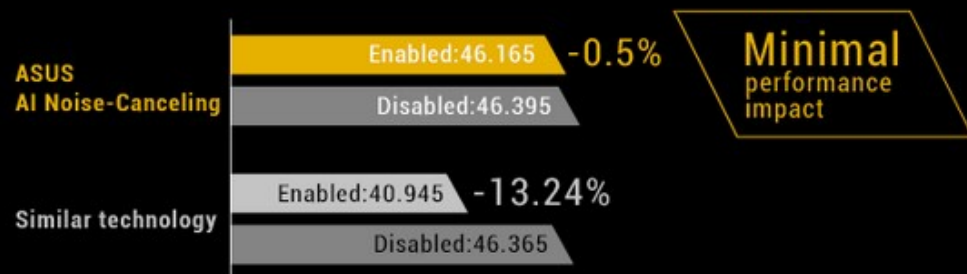
EXCLUSIVE 2.5 GIGABIT ETHERNET

2.5G on-board Ethernet kicks your LAN connection up a notch with an up to 2.5X bandwidth improvement. Using your existing LAN cable, you can take advantage this networking upgrade to experience smoother, lag-free gaming, immediately stream high-resolution videos and enjoy faster file transfers.

AI NOISE-CANCELING MICROPHONE

AI Noise-Canceling Microphone software is exclusively featured on ASUS motherboards and supports 3.5 mm, USB, or Bluetooth headsets. The utility leverages a massive deep-learning database to preserve the sound of your voice while eliminating distracting keyboard clatter, mouse clicks, and other forms of environmental noise. And it only places a slight load on the CPU, ensuring minimal impact on gaming performance.

3DMARK – FPS (2560X1440)



*Testing configuration: CPU: AMD Ryzen 5 3600x; Motherboard: ROG STRIX B550-I GAMING; Graphics card: NVIDIA RTX 2060-06G; DRAM: Hynix 2666 16GB; Power: Seasonic 430W; HDD: Seagate M.2 NVME 2TB; Cooling: Enermax T.B.APOLLISH; Voice Communication App: Discord (In-app noise canceling effects disabled) ; Background noise: Keyboard typing, mouse clicking, people talking, and music playing

*Actual performance varies by configuration

OUTSHINE THE COMPETITION

AURA SYNC

A well-tuned system deserves a matching aesthetic. ASUS Aura offers full RGB lighting control with a variety of functional presets for the built-in RGB LEDs as well as strips connected to the onboard RGB headers. And it can all be synced with an ever-growing portfolio of Aura-capable hardware.

Learn more about ASUS [Aura Sync](#).



Static



Breathing



Strobing



Rainbow



Color cycle



Comet



Flash & dash



Wave



Glowing Yo Yo



Starry night



Music effect



Smart