

ASUS Republic of Gamers Announces ROG Phone 5 Series

Get ready to gear up and win with ROG Phone 5, ROG Phone 5 Pro and ROG Phone 5 Ultimate, the latest generation of the world's most advanced gaming smartphone

KEY POINTS

- **Dare to win:** Powered to win by the flagship Qualcomm® Snapdragon™ 888 5G Mobile Platform, with all-new performance manager app for total control
- **Dare to see:** 144 Hz / 1 ms Samsung AMOLED display with industry-leading 300 Hz touch sampling rate, ultra-low latency and Delta-E <1 color accuracy
- **Play longer:** Monster 6000 mAh battery with new software optimizations to maximize endurance and lifespan; fastest-ever rapid charging with HyperCharge
- **Innovative ROG Vision:** Unique rear matrix display on ROG Phone 5 Pro and Ultimate displays customizable animations for system alerts and status
- **Built for gamers:** Massively upgraded AirTrigger 5; next-generation GameFX audio system tuned by Dirac

TAIPEI, Taiwan, Mar 10, 2021 — ASUS Republic of Gamers (ROG) today announced ROG Phone 5, ROG Phone 5 Pro and ROG Phone 5 Ultimate, the latest and most powerful incarnation of the world's most advanced gaming smartphone.

The ROG Phone 5 series is powered to win by the flagship Qualcomm® Snapdragon™ 888 5G Mobile Platform featuring advanced 5G communications and premium Qualcomm Snapdragon Elite Gaming™ features. The upgraded GameCool 5 cooling system along with the all-new performance manager in Armoury Crate ensure maximum performance is available for any gaming scenario.

For ultra-smooth and ultra-responsive gaming visuals, the ROG Phone 5 series is equipped with a Samsung-built 144 Hz / 1 ms AMOLED HDR10+ certified display with an industry-leading 300 Hz touch sampling rate and ultra-low 24.3 ms touch latency.

Gamers can play longer with the ROG Phone 5 series thanks to the monster 6000 mAh battery, and the phones come with a 65-watt HyperCharge adapter that tops up the battery in the shortest possible time.

The ROG Phone 5 series continues the ROG built-for-gamers design philosophy with ROG Vision, a never-before-seen rear matrix display — available exclusively on ROG Phone 5 Pro and ROG Phone 5 Ultimate — that shows customizable animations in response to a variety of system and in-game events.

There are also massive enhancements to the pioneering and still-unrivaled AirTrigger 5 control system, and the powerful GameFX audio system has also been overhauled to deliver even more immersive sound.

Dare to win

The ROG Phone 5 series harnesses the massive power of the latest flagship Snapdragon 888, which packs industry-leading innovations in 5G, AI, gaming, and camera technologies. Snapdragon Elite Gaming allows gamers to harness the power of ultra-smooth play at the highest possible HDR quality levels, with desktop-level capabilities. It also debuts Qualcomm Game Quick Touch, so players can experience up to a 20% increase in touch responsiveness and lower latency¹. With up to a stunning 35% increase in GPU performance and 25% in CPU performance², even the most demanding 3D mobile games run smoothly with maxed-out settings.

To enable maximum sustained performance, the GameCool 5 cooling system in the ROG Phone 5 series now has an optimum thermal structure featuring a centered CPU with the battery split into two parts, one located on each side of the CPU. This ensures that the heat generated by the CPU is transferred to all the edges and corners of the chassis simultaneously for higher thermal efficiency. The reshaped 3D vapor chamber and extensive graphite sheets also help to spread the heat evenly across the device to reduce heat build-up in the middle.

The completely revamped AeroActive Cooler 5 now intakes and expels an incredible amount of air directly onto the center of the phone — right where the CPU is — to deliver an amazing 10°C³ drop in the CPU temperature.

The all-new performance manager in Armoury Crate now includes X Mode, with multiple system profiles to give gamers even more performance settings and performance tuning tools, so they can instantly adapt the phone to the task at hand.

Additionally, ROG Phone 5 Ultimate is the world's first smartphone to use 18 GB of LPDDR5 RAM, which dramatically increases the overall gaming performance and takes the user experience to the next level.

Dare to see

Cutting-edge displays have been a signature ROG Phone feature since its inception, and the ROG Phone 5 series continues this tradition. Boasting an industry-leading 300 Hz touch-sampling rate, the 144

Hz / 1 ms AMOLED display — built by Samsung — delivers a super-smooth gaming experience, with an ultra-low touch latency. Tuned in collaboration with leading visual-processing company Pixelworks®, the supreme visuals are enhanced even further with world-beating Delta-E <1 color accuracy, the new always-on HDR technology⁴ that improves non-HDR visuals, and a screen that's protected by the toughest ever Corning® Gorilla® Glass Victus™. The ROG Phone 5 series is built to endure — and built to win.

Dare to play

To extend both screen-on time and the lifespan of the monster 6000 mAh battery, ROG Phone 5 series is optimized using new software optimizations and power-saving mechanisms, including a charging upper limit, steady charging, and enhanced scheduled charging. There are also passive power-saving mechanisms to limit inactive apps and deliver up to 67% more power savings⁵. The ROG Phone 5 series always optimizes itself for the best power efficiency, however it's being used.

Rapid charging is assured by the bundled 65-watt HyperCharge adapter, which gets gamers up and running again in the fastest possible time.

Innovative ROG Vision

ROG Phone 5 Ultimate and ROG Phone 5 Pro let gamers make their presence known to the world with the exclusive ROG Vision, a pioneering rear matrix display that's never been seen on any phone until now. ROG Phone 5 Pro features a color ROG Vision display, while ROG Phone 5 Ultimate has a monochrome version.

ROG Vision can display a variety of cool animations that show whether the phone is charging, if there's an incoming call, whether X Mode is enabled, and more. Owners can even create custom animations to make their phone even more personal.

Built for gamers

Total control is the name of the game for the ROG Phone 5 series, and the massively upgraded AirTrigger 5 control system now gives gamers up to four distinct ways to interact with their ROG Phone 5, delivering an unrivaled level of game control. The AeroActive Cooler 5 now also features two extra physical buttons to allow a genuine console-like gaming experience.

The ROG Phone 5 series supports an unprecedented total of 10 different motion controls, so gamers can easily pick the moves to fit their game. In a racing game, for example, they can swivel the phone to steer or pull it towards them to brake. Game control has never been so easy.

ROG Phone 5 Pro and ROG Phone 5 Ultimate additionally features innovative hidden rear touch sensors on the back cover, which provide L2/R2 trigger functions, just like a game console controller. These also work together with the ultrasonic sensors, the AeroActive Cooler 5 buttons and the motion controls to provide full control for a total gaming experience.

The GameFX audio system in the ROG Phone 5 series now incorporates symmetrical seven-magnet dual speakers for truly balanced stereo sound effects. Optimized in collaboration with audio specialist Dirac, the projected sound quality will grab the user's aural senses and take them to a different world. There's also a 3.5 mm headphone jack, and a hi-fi-grade ESS DAC for lossless audio processing. The AudioWizard audio-tuning app has also been completely revamped to optimize sound for different audio styles, including Game, Cinema, and Music settings. GameFX audio on ROG Phone 5 series delivers the crystal-clear in-game sound effects and powerful aural soundscapes that gamers never dared to hope for in a phone.

For the ROG Phone 5 series, we've teamed up with some of the most popular game titles to give owners a series of different theme packs for customizing their device with their favorite characters and screens. Gamers can also share, discuss, and interact via ROG Connect, an online community that's built into the ROG Phone 5 series.

SPECIFICATIONS⁶

ASUS ROG Phone 5 Series

Processor	2.84 GHz Qualcomm® Snapdragon™ 888 5G Mobile Platform with 5 nm, 64-bit Octa-Core Processor
GPU	Qualcomm® Adreno™ 660
UI	Android™ 11 with new ROG UI
Display	6.78" 20.4:9 (2448 x 1080) 144 Hz / 1 ms Samsung AMOLED display 800 nits outdoor readable brightness 1,200 nits peak brightness Delta-E < 1 111.23% DCI-P3 color gamut coverage Corning® Gorilla® Glass Victus™ Supports Always-On HDR display HDR10 and HDR10+ certified Capacitive touchscreen with 10-point multitouch (supports glove touch)
Dimensions	173 x 77 x 9.9 mm
Weight	239 g
Battery	6000 mAh typical capacity
Memory	ROG Phone 5 Ultimate: 18 GB LPDDR5 RAM ROG Phone 5 Pro and ROG Phone 5: Up to 16 GB LPDDR5 RAM
Storage	ROG Phone 5 Ultimate and Pro: 512 GB UFS 3.1 ROM ROG Phone 5: Up to 256 GB UFS 3.1 ROM
Sensors	In-display fingerprint sensor, face recognition, accelerometer, e-compass, gyroscope, proximity sensor, ambient-light sensor, ultrasonic sensors for AirTrigger 5 and grip press
Wireless Technology	Integrated WiFi 6E (802.11a/b/g/n/ac/ax, 2x2 MIMO) ⁷ Bluetooth® 5.2 (HFP + A2DP + AVRCP + HID + PAN + OPP), supports Qualcomm® aptX™ Adaptive WiFi Direct NFC
GPS	GNSS support GPS (L1/L5), Glonass (L1), Galileo (E1/E5a), BeiDou(B1i/B1c/B2a), QZSS (L1/L5) and NavIC (L5)
I/O Ports	Side and bottom: USB-C®
Front Camera	24 MP
Rear Camera	64 MP (Main camera Sony® IMX686) + 13 MP (125° ultrawide-angle lens) + 5 MP (Macro)
Voice Wakeup	Yes
Speaker	Symmetrical dual front-facing speakers powered by Dirac technologies 7-magnet stereo speaker with Cirrus Logic amplifier for louder, deeper and less distorted sound effect
NFC	Supported
Color	ROG Phone 5 Ultimate: Storm White ROG Phone 5 Pro: Phantom Black ROG Phone 5: Phantom Black and Storm White

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About ROG

Republic of Gamers (ROG) is an ASUS sub-brand dedicated to creating the world's best gaming hardware and software. Formed in 2006, ROG offers a complete line of innovative products known for performance and quality, including motherboards, graphics cards, laptops, desktops, monitors, audio equipment, routers and peripherals. ROG participates in and sponsors major international gaming events. ROG gear has been used to set hundreds of overclocking records and it continues to be the preferred choice of gamers and enthusiasts around the world. Learn more about the choice of champions at <http://rog.asus.com>.

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¹ Manufacturer's performance data, compared to the Snapdragon 865 5G Mobile Platform

² Manufacturer's performance data, compared to the Snapdragon 865 5G Mobile Platform

³ Test result provided by ASUS labs, actual performance may vary depending on conditions.

⁴ Some features will be made available through future OTA updates, To learn more about Always-On HDR technology, please visit <https://www.pixelworks.com/en/mobile>

⁵ Actual performance may vary.

⁶ Specifications, content and product availability are all subject to change without notice and may differ from country to country.

Actual performance may vary depending on applications, usage, environment and other factors. Full specifications are available at <http://www.asus.com>

⁷ WiFi 6E availability and features are dependent on regulatory limitations and co-existence with 5 GHz WiFi.