





SAMSUNG Exynos 2100

Exynos 2100

Mobile redefined

This is it. Heightening performance, power efficiency, camera functions and AI capabilities, the Exynos 2100 5G mobile processor sets a new standard for premium mobile experiences.



Exynos 2100

Power, power and more power

The most powerful chip we've ever created. The







LEAGUEOF LEGENDS

LEAGUE OF LEGENDS: WILD RIFT is a trademark of Riot Games, Inc. Designed for gamers who never stop gaming. The Mali[™] -G78 GPU offers sustained performance improvements of up to 46 percent¹, while its diverse graphics processing technologies facilitate high-quality gaming and mixed reality experiences. Meanwhile, The new AMIGO technology delivers stable frame rates, offering you an edge over the competition.



02

Exynos 2100

Intelligence got smarter

Twenty-six trillion operations per second.

The Exynos 2100's new Al engine harnesses its powerful triple-core NPU to offer up to 26 TOPS,² resulting in high-level Al performance. With a lossless compressor for lower bandwidth, the processor provides the powerful intelligence that smartphones need to create whole new experiences.

5G inside

Crafted design for 5G integration. The Exynos 2100 also includes a 5G modern with carrier aggregation technology that empowers new applications such as cloud gaming and delivers download speeds of up to 7.35Gbps.³ Whether you are downloading, uploading or streaming, enjoy hyper-fast speeds with 5G connectivity.





03

Exynos 2100

Much more. Much longer.

Do it longer with less recharge. With the Exynos 2100 built on 5nm process geared towards boosting power efficiency, your device is able to stay reliable for longer. With the processor's CPU, GPU, and NPU all designed with efficiency in mind, the processor seeks to make worrying about battery life a thing of the past.



When Al meets camera

The AI engine not only automatically identifies your subject, but harnesses an image signal processor to tweak image quality settings and create the best photo possible. With support for up to six cameras and 200 Mp resolution, the processor enables cameras to capture a very high standard of detail and additionally facilitates smoother zooming.





Exynos 2100





Be a filmmaker everyday

Film your story with epic videos. With powerful multi-format codec (MFC) and advanced camera system, the Exynos 2100 enables video recording and playback at 8K resolution. The processor also supports HDR10+ codecs for highly vivid color with enhanced dynamic range.

Redefined Screen

Enjoy visuals that are bound to delight. For users who experience display refresh rates of up to 144 Hz, the word 'scrolling' will come to mean something else altogether. The processor supports HDR10+ displays with up to 4K resolution and also enables 8K TV-out so that you can watch 8K video that has been shot on smartphones in more detail.

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Mobile Processor Exynos 2100



Get safety of mind when it comes to your device. For comprehensive privacy on your phone, the Exynos 2100 reinforced security solutions. With a memory protection unit, the processor's embedded secure element (eSE) separates personal data from the OS environment and enables more secure processing that is also faster and more reliable.









Specifications



CPU

2.9GHz Single-core (Cortex®-X1) + 2.8GHz Triple-core (Cortex®-A78) + 2.2GHz Quad-core (Cortex®-A55)

GPU

Mali[™]-G78 MP14

Al Engine with Triple-core NPU and DSP

Modem

5G NR Sub-6GHz 5.1Gbps (DL) / 1.92 Gbps (UL) 5G NR mmWave 7.35Gbps (DL) / 3.67 Gbps (UL) LTE Cat.24 8CA 3Gbps (DL) / Cat.22 4CA 422Mbps (UL)





Camera

Single-camera Up to 200MP, Dual-camera 32MP+32MP

Video

Up to 8K decoding: 60fps with 10-bit HEVC(H.265), 30fps with 10-bit VP9, AV1 Up to 8K encoding: 30fps with 10-bit HEVC(H.265), VP9









1) Based on Samsung's internal test results compared to the Exynos 990 processor.

2) Based on Samsung's internal test results.

3) Based on Samsung's internal test results. Actual performance may vary depending on device and user environment.

* All the depicted devices and features are fictitious creations. No simulation of any real product is intended.

* All functionality, features, specifications and other product information provided in this document including, but not limited to, the benefits, components,

performance, availability, and capabilities of the product are subject to change without notice or obligation.

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