

Smartphone face 12GB RAM on the market: What is the most valuable choice?

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It can be said that the amount of RAM on smartphones (especially in the high-end segment) is increasing by 'exponential' year by year. If 2-3 years ago, owning a smartphone equipped with 3-4GB of RAM was enough for you to use and show off to your friends, at the present time, the amount of RAM on the smartphone was up to 2 digits, and still no sign will stop.

It is not exaggerating to comment that there is an 'arms race' among manufacturers about the amount of RAM on smartphones, besides the configuration and number of camera sensors. More and more smartphone manufacturers have released super products that own up to 12GB of RAM, including big names like Samsung, LG, as well as brands from China such as OnePlus and Xiaomi, and even a few names. Other age is less common.

1. Do you know how much RAM a smartphone needs to use?



Is it a waste to have 12GB of RAM for smartphones?

So what is the benefit of owning a phone with lots of RAM? First of all, the overall performance as well as the phone's multitasking capabilities will be improved, giving a better user experience. Secondly, a RAM-rich smartphone will certainly be outdated. If you invest a 12GB RAM flagship at the present time, surely after 2-3 years, that amount of RAM will still not be too bad compared to other products on the market, that's for sure.

But in fact, at this time of 2019, 12GB of RAM for a smart phone is overkill, surely no one is free to open dozens of applications, hundreds of Chrome tabs just to test the ability. multitasking of the phone. As an analyst has said, for smartphones at the moment, when you cross 8GB, you are gradually entering the "meaningless land", you will gradually realize you do not need that much RAM. .

However, if you have a lot of importance and it is important to love the best, top, most powerful things on the market, 12 or 14GB of RAM is absolutely no problem. So, what are the 12GB RAM smartphones on the market today? How strong are they? Which choice is the most reasonable for you? Let's find out later.

1. Learn about Snapdragon microprocessors on smartphones and tablets

Smartphone 12GB RAM and notable options

1. Galaxy Note 10 Plus (reference price: VND 27 million)
2. OnePlus 7 Pro (reference price: From VND 15.6 million)
3. Asus ROG Phone 2 (reference price: VND 20 million)
4. Samsung Galaxy S10 Plus (reference price: VND 18.2 million)
5. Xiaomi Black Shark 2 Pro (reference price: VND 15 million)
6. ZTE Axon 10 Pro 5G (reference price: 23 million VND)
7. Nubia Red Magic 3 (reference price: VND 15 million)
8. Xiaomi Mi 9 Transparent Edition (reference price: VND 14 million)

Galaxy Note 10 Plus (reference price: VND 27 million)



Galaxy Note 10 Plus is receiving a lot of attention from the market

The Galaxy Note 10 Plus, the new flagship launched (August 8, 2019) received the most attention today. The product comes with 12GB RAM and 2 options of 256GB or 512GB storage capacity. Combining the built-in memory and microSD card slot, you will have a phone with 12GB of RAM and can hold up to 1.5TB of storage - the most popular specs on the market today.

This sounds impressive, but if you analyze it carefully you will see a real 'plot' behind it. Temporarily put RAM and ROM aside, the remaining parameters of this 27 million VND Galaxy Note 10 Plus are also impressive, but it doesn't seem to be adequate. The product has a 6.8-inch large screen, a traditional S Pen, and 4 rear cameras, but the battery capacity only stops at 4,300mAh, besides the unfortunate absence of the 3.5 headphone jack. mm. Is equipped with a large amount of RAM and storage space a strategy for Samsung to raise the price and disperse the user's attention to weaknesses on the device?

1. 11 best digital DAC converters for Hi-Res audio

Some other notable specifications and features on the Galaxy Note 10 Plus include in-screen fingerprint scanner, IP68 water and dust-proof capability, and backward-compatible wireless charging technology. Upper. In addition, the phone also possesses a beautiful and modern design with a screen display ratio of almost absolute body size.

Basic specifications of Samsung Galaxy Note 10 Plus:

1. Screen: 6.8 inch, Dynamic AMOLED QHD + Infinity-O
2. Processor chip: Snapdragon 855 or Exynos 9825
3. RAM: 12GB
4. Storage capacity: 256 / 512GB
5. MicroSD memory card slot, support up to 512GB
6. Rear camera: Ultra wide angle: 16MP (F2.2); Wide angle: 12MP OIS (F.15 / F2.4); Tele: 12MP OIS (F2.1); TOF depth sensor lens
7. Front camera: 10MP (F 2.2)
8. Connection: Wi-Fi 802.11 a / b / g / n / ac, Dual-band, Wi-Fi Direct, Wi-Fi hotspot; Bluetooth LE, apt-X, A2DP, v5.0;
9. Battery capacity: 4,300mAh, Quick Charge 45W
10. Software: Android 9.0 Pie
11. Size: 77.2mm x 162.3mm x 7.9mm

OnePlus 7 Pro (reference price: From VND 15.6 million)



OnePlus 7 Pro is the most expensive smartphone model of OnePlus to date

OnePlus 7 Pro is a relatively unfamiliar name in the Vietnamese market, just because this product is not sold genuine, but only "slipped back" on a portable path. However, the OnePlus 7 Pro is currently storming the North American and European markets with impressive sales - a very rewarding product.

In addition to owning 12GB of RAM like market-leading products, the OnePlus 7 Pro now has 6 or 8GB versions for customers to choose from. The product has a large 6.67-inch screen with QHD + resolution, a refresh rate (refresh rate) of 90Hz and a curved edge for optimal visibility.

1. Top 5 best Ring light for selfie and video

This Flagship also has a high screen-to-body ratio that is not inferior to the Galaxy Note 10 Plus, even more so thanks to the pop-up selfie camera hidden in the camera body and only raised when people Use to access applications that need to use the camera. The OnePlus 7 Pro runs on the latest Android version with OnePlus's customizable OxygenOS 'home interface'. According to many experts, this is the best Android-based customizable interface on the market today, in terms of both 'smoothness' and stability.

Other specifications and features include fingerprint sensor in the monitor, 3 independent sensor rear camera groups, and 4.000mAh battery for acceptable temporary use.

7 Pro is the most expensive smartphone of OnePlus so far, although it is still much cheaper than the flagship from more famous manufacturers such as Samsung Galaxy S10 Plus or Huawei P30 Pro. However, in exchange for attractive selling prices, you will have to sacrifice some of the features commonly found on other high-end phones including water, IP dust and charging technology. cord.

1. Top 9 best tablets 2019

Basic specifications of OnePlus 7 Pro:

1. Display: Optic AMOLED, 1440 x 3120 pixels, 6.67 inches
2. Processor chip: Snapdragon 855, 8 cores (1x2.84GHz 485 Kryo & 3x2.41GHz Kryo 485 & 4x1.78GHz Kryo 485; Adreno 640 GPU)
3. RAM: 6/8 / 12GB
4. Storage capacity: 128 / 256GB
5. MicroSD memory card slot: Not supported
6. Rear camera: 3 cameras (48MP + 16 MP + 8 MP)
7. Front camera: 16MP
8. Connection: Wi-Fi 802.11 a / b / g / n / ac, dual-band, WiFi Direct, DLNA, hotspot; Bluetooth 5.0, A2DP, aptX HD, LE
9. Battery capacity: 4.000mAh, standard Li-Po, with fast charging
10. Software: Android 9.0 Pie
11. Size: 162.6mm Length x 75.9mm x Thickness 8.8mm

Asus ROG Phone 2 (reference price: VND 20 million)



Asus ROG Phone 2 is Asus' strategic card in the smartphone segment

The smartphone market is becoming more competitive than ever and ROG Phone 2 is Asus' strategic card. If there is a smartphone that has many features that best match the definition of comprehensiveness, both in performance and aesthetics, then perhaps few products can surpass Asus ROG Phone 2 in current time.

1. Top 6 gaming laptops under 20 million worth buying most today

In addition to 12GB RAM, ROG Phone 2 is also the first device in the world equipped with Qualcomm Snapdragon 855 Plus chipset - Qualcomm's special gaming chip. Basically, the Snapdragon 855 Plus is an overclocked version of the regular Snapdragon 855, along with a little tweaking of the overall performance of both CPU and GPU.

The rest of ROG Phone 2 is also remarkable. The device has an extremely large battery, supports 30 watts of fast charging, combined with AMOLED display, a 120Hz refresh rate can make you "cry out happily" with each game context displayed in extremely high quality. With all its advantages, even if the selling price reaches 20 million - the forbidden land, which is usually reserved only for Apple and Samsung - ROG Phone 2 still makes

many mobile gamers hook up without hesitation. . And in fact, the phone is expected to burn out after only a few weeks of launch in some important markets of Asus.

ROG Phone 2's global launch event has been set for September 4, there will be lots of good things to look forward to!

1. The best computers for students in 2019

Basic specifications of Asus ROG Phone 2:

1. Screen: AMOLED, 6.59 inch Full HD
2. Processor chip: Snapdragon 855, 8 cores (1x2.84GHz 485 Kryo & 3x2.41GHz Kryo 485 & 4x1.78GHz Kryo 485; Adreno 640 GPU
3. RAM: 12GB
4. Storage capacity: 256GB
5. MicroSD memory card slot: Not supported
6. Rear camera: 48MP, 13MP
7. Front camera: 24MP
8. Connection: Wi-Fi 802.11 a / b / g / n / ac, Dual-band, DLNA, Wi-Fi Direct, Wi-Fi hotspot; Bluetooth 5.0, A2DP, aptX HD, LE
9. Battery capacity: 6.000mAh, Li-Po standard; Quick charge Quick Charge 4.0
10. Software: Android 9.0 Pie
11. Size: 171mm - Horizontal 77.6mm - 9.5mm Thick

Samsung Galaxy S10 Plus (reference price: VND 18.2 million)



Samsung Galaxy S10 Plus is one of the best 12GB RAM phones today

Add another cult name from producer Kim Chi, it seems that Samsung is a very hard-working and determined company in the 'arms race' of RAM in the Android smartphone world.

The 12GB RAM version of Galaxy S10 Plus is combined with huge storage capacity, even doubling on the Galaxy Note 10 Plus: 1TB. If that's not enough, you can expand 512GB of storage space through the microSD card slot. Besides, Samsung also released 8GB RAM and 128 / 512GB capacity for users to choose.

The Flagship of Samsung is of course also indispensable with the fashionable features such as fingerprint sensor in the screen, 3-sensor camera cluster in the back, and a large capacity battery 4.200mAh (compared to size).

Thank God! The 3.5mm headphone jack has not been removed yet. Along with that is the ability to support wireless charging, wireless compatible backwards and has a 'perforated' screen for the ultra-modern look, personal style and unmistakable.

It will be an omission if not mentioning the screen of Galaxy S10 Plus, the device owns 6.4 "infinity" wallpaper, boating 2 sides and for the display is probably the most beautiful on the current smartphone . Of course, it is indispensable for IP68 water and dust resistance. All these things, combined together, make Galaxy S10 Plus become one of the best 12GB RAM phone models that you should consider on the market today.

1. Top best gaming keyboard in 2019

Basic specifications of Samsung Galaxy S10 Plus:

1. Screen: Super AMOLED, 6.4 inches, 1440 x 2960 pixels
2. Processor chip: Exynos 9820 2.7GHz 2 core, 2.3GHz 2 core and 4 cores 1.9GHz; Mali-G76 MP18 GPU
3. RAM: 8 / 12GB
4. Storage capacity: 128 / 512GB and 1TB
5. MicroSD memory card slot: Supports up to 512GB
6. Rear Camera: Main 12MP & 12MP Parts, 16MP
7. Front Camera: Main 10MP & 8MP Parts
8. Connection: Wi-Fi 802.11 a / b / g / n / ac, Dual-band, Wi-Fi Direct, Wi-Fi hotspot; Bluetooth 5.0, A2DP, aptX HD, LE
9. Battery capacity: 4.100mAh, Li-Ion standard; Fast charger, wireless compatible backwards
10. Software: Android 9.0 Pie
11. Size: 157.6mm Length - 74.1mm Horizontal - 7.8mm Thick

Xiaomi Black Shark 2 Pro (reference price: VND 15 million)



Xiaomi Black Shark 2 Pro is equipped with new and more powerful chip

It seems strange that Xiaomi decided to upgrade the new version of Black Shark 2 after only a few months of release - the Black Shark 2 Pro. However, Xiaomi is a company that always knows how to create surprises for its fans, and furthermore, such a fast product update cycle allows them to 'throw' the latest Snapdragon 855 Plus gaming chip on the side. in Black Shark 2 Pro to catch up with competitors in the market, including Asus ROG Phone 2.

Overall, Xiaomi Black Shark 2 Pro does not have too many differences compared to its predecessor launched a few months ago, except that equipped with a new chip more powerful and dedicated. You will still own a professional gaming phone with an extremely beautiful design. Metal frame with strong, angled, sharp edges, combined with high-end RGB leds to bring a gamer beauty, unmistakable. Besides the equipment is also very useful and equally modern for gamers such as fingerprint sensor in the screen and stereo speakers. The weakest point on the Black Shark 2 Pro is probably a 4,000mAh battery that is somewhat 'lost' on a gaming product. But in return, Xiaomi has equipped Black Shark 2 Pro with the latest generation fast charging technology, giving you an hour of continuous gaming with just 10 minutes of charging.

The Black Shark 2 Pro is currently only available as a domestic version for the Chinese market, the international version will probably be released by the end of the year at the end of the year. Xiaomi Black Shark 2 Pro and Asus ROG Phone 2 are the 2 most notable products in today's gaming smartphone segment. Asus ROG Phone 2 owns many more convenient equipment, while Xiaomi's products are much cheaper. Consider your real needs to make the most reasonable choice!

1. How is eMMC and SSD different? Which type should I buy?

Basic specifications of Xiaomi Black Shark 2 Pro:

1. Display: AMOLED, 6.39 inch, Full HD + (1080 x 2340 Pixels)
2. Processor chip: Snapdragon 855+ 8 64-bit cores, 1.96GHz core, 1.8GHz 4-core & 4.42GHz cores; GPU: Adreno 640
3. RAM: 8 / 12GB
4. Storage capacity: 128 / 256GB
5. MicroSD memory card slot: Not supported
6. Rear Camera: Main 48MP & 12MP Parts
7. Front camera: 20MP
8. Connection: Wi-Fi 802.11 a / b / g / n / ac, Dual-band, Wi-Fi Direct, Wi-Fi hotspot; Bluetooth 5.0, A2DP, aptX HD, LE
9. Battery capacity: 4.000mAh, Li-Ion standard; Fast charger
10. Software: Android 9.0 Pie
11. Size: 163.6mm Length - 75mm Horizontal - 8.8mm Thickness

ZTE Axon 10 Pro 5G (reference price: 23 million VND)



ZTE Axon 10 Pro 5G owns a stylish design and powerful configuration

ZTE Axon 10 Pro 5G was first announced at MWC 2019 and has since been available in many markets that have supported 5G networks throughout Europe. There are several reasons why the Axon 10 Pro 5G becomes one of the best phones with 12GB RAM. First, it must be an extremely impressive spec with the powerful Snapdragon 855 chip, which includes Qualcomm's X50 5G modem for the ability to support 5G networks with transfer speeds of up to 2Gbps. Fingerprint sensor in the screen and 3 camera cluster on the back, integrates many AI features as well as supports various shooting modes.

The device has a stylish design with high-quality gradient glass and metal covers, a 6.47 inch 'dewdrop' screen overflowing with a thin bezel, similar to Samsung's Galaxy S and Note series. Besides, the ability to support microSD card slot on 4000mAh battery board and tablet integrated wireless charging technology. ZTE Axon 10 Pro 5G is the first Snapdragon 855 smartphone to use the F2FS memory standard, giving data read speeds much faster than conventional formats like EXT4 or exFAT.

The biggest problem with the ZTE Axon 10 Pro 5G at the moment is the ability to reach customers. Although the product has been released in the European market, it is only a 6GB version of RAM. To get a 12GB variant, you'll have to buy at ZTE's distribution stores in China, or order online from e-commerce websites like AliExpress or Alibaba. In Vietnam, the ZTE Axon 10 Pro 5G is also not officially distributed, but is mainly imported via a portable road.

1. Should you buy a gaming laptop or build your own desktop PC?

The basic specifications of ZTE Axon 10 Pro 5G:

1. Display: AMOLED, 6.47 inch, Full HD + (1080 x 2340 Pixels)
2. Processor: Snapdragon 855 8-bit 64-bit processor, 1 core 2.84GHz, 3 2.42GHz & 4 core 1.8GHz processors; GPU: Adreno 640

3. RAM: 6/8 / 12GB
4. Storage capacity: 128 / 256GB
5. MicroSD memory card slot: MicroSD, support up to 1TB, standard F2FS memory
6. Rear camera: 48MP, 20MP, and 8MP
7. Front camera: 20MP
8. Connection: Wi-Fi 802.11 a / b / g / n / ac, Dual-band, Wi-Fi Direct, Wi-Fi hotspot; Bluetooth 5.0, A2DP, aptX HD, LE
9. Battery capacity: 4.000mAh, Li-Ion standard; Battery saver, Quick Charge Quick Charge 4.0, Wireless charging
10. Software: Android 9.0 Pie
11. Size: 159.2mm - Horizontal 73.4mm - 7.9mm Thick

Nubia Red Magic 3 (reference price: VND 15 million)



Nubia Red Magic 3 is one of the most powerful hardware-owned phones today

This is the third - and last - game mobile phone on this list. Nubia Red Magic 3 is still a preferred product launch for the domestic market (China) with a powerful hardware configuration and integrates many interesting features.

1. Should you buy a Chromebook or tablet?

In terms of configuration, Nubia Red Magic 3 owns the top-class powerful hardware with the Snapdragon 855 processor, and users will have 4 configurations to choose from: 6GB + 64GB RAM, 6GB + 128GB ROM, RAM 8GB + ROM 128GB and 12GB RAM + 256GB ROM. Along with the 6.65-inch AMOLED panel, Full HD + resolution, taking up most of the front of the phone thanks to the ultra-thin bezel and especially supports the refresh rate up to 90Hz. The speaker system is also notable with the ability to support DTS surround sound for vivid sound quality.

True to the quality of a smartphone, Nubia Red Magic 3 possesses a cool design with a boldly cut metal frame with high-end RGB led lights running along the camera body and can adjust the color mode through parts. soft.

It will be a major omission if not mention the cooling system of this smartphone. Red Magic 3 is equipped with rear and side air vents, keeping the temperature of the device stable even when playing heavy games for a long

time, along with a fan system with jacks. extremely small size, 'max' capacity at 14,000 rpm and support IP55 standard for water and dust resistance. According to the manufacturer, this radiator fan can work well for 30,000 continuous hours, combined with the heat pipe system, which enhances the cooling performance up to 500%.

Red Magic 3 owns 5,000 mAh battery and supports 27W fast charging technology. Storage capacity up to 256GB. The only drawback on this phone is that it does not support extended storage, wireless charging, as well as the absence of NFC.

1. Top 6 best gaming mice for PC gamers

Nubia Red Magic 3 basic specs:

1. Screen: Super AMOLED, 6.65 inch, Full HD + (1080 x 2340 Pixels)
2. Processor: Snapdragon 855 8-bit 64-bit processor, 1 core 2.84GHz, 3 2.42GHz & 4 core 1.8GHz processors; GPU: Adreno 640
3. RAM: 6/8 / 12GB
4. Storage capacity: 64/128 / 256GB
5. MicroSD memory card slot: Not supported
6. Rear camera: 48MP
7. Front camera: 16MP
8. Connection: Wi-Fi 802.11 a / b / g / n / ac, Dual-band, DLNA, Wi-Fi Direct, Wi-Fi hotspot; Bluetooth 5.0, A2DP, aptX HD, LE
9. Battery capacity: 4.000mAh, Li-Ion standard; Fast charging 27W
10. Software: Android 9.0 Pie

Xiaomi Mi 9 Transparent Edition (reference price: VND 14 million)



Xiaomi Mi 9 Transparent Edition owns very good price / performance

The final product on the list of the best phones with our 12GB RAM is the transparent version of the Xiaomi Mi 9. The biggest difference of Xiaomi Mi 9 Transparent Edition compared to the regular version is the amount of RAM as well as larger ROM, and especially the strange penetrating back surface can be removed and see components. However, earlier Xiaomi also confirmed that these components are fake, though the manufacturer still meticulously designed to bring the optimal aesthetics to the device.

Just like the traditional products of the Xiaomi family, the Mi 9 Transparent Edition owns a very good price / performance with a powerful Snapdragon 855 chip, 12GB RAM (this is the first phone in the world. gender has 12GB RAM) and 256GB internal memory. The rear camera cluster is still 3 sensors but has been upgraded quite a lot compared to its predecessor, 7P lens with aperture of f / 1.47, superior to the 6P aperture f / 1.75 on the normal version, copper Time for better low-light photography capability thanks to the large aperture.

1. Top 6 best mobile photo printers 2019

Transparent owns a 6.4-inch 'water drop' screen, using AMOLED panels and Full HD + resolution, fingerprint sensor placed under the screen, and the edges on the bottom are all very thinly designed. Help screen display ratio up to 90.7% of the front area. In addition, we must mention the modern fast charging technology on the Mi 9 Transparent, allowing the 3,300mAh battery to be fully charged in just 65 minutes - extremely impressive.

Basic specifications of Xiaomi Mi 9 Transparent Edition:

1. Screen: Super AMOLED, 6.39 inch, Full HD + (1080 x 2340 Pixels)
2. Processor: Snapdragon 855 8-bit 64-bit processor, 1 core 2.84GHz, 3 2.42GHz & 4 core 1.8GHz processors; GPU: Adreno 640
3. RAM: 12GB
4. Storage capacity: 256GB
5. MicroSD memory card slot: Not supported
6. Rear camera: 48 MP, 16 MP and 12 MP
7. Front camera: 20MP
8. Connection: Wi-Fi 802.11 a / b / g / n / ac, Dual-band, DLNA, Wi-Fi Direct, Wi-Fi hotspot; Bluetooth 5.0, A2DP, aptX HD, LE
9. Battery capacity: 3.300mAh, Li-Ion standard; Fast charger wired 27W, wireless charging up to 20W
10. Size: Length 157.5mm - Horizontal 74.7mm - 7.6mm Thick
11. Software: Android 9.0 Pie

Above is a list of 12GB RAM smart phones worth considering on the market today. Have you ever experienced any products on this list? What do you think about the number of 12GB of RAM on smartphones today? Leave comments in the comment section below. I wish you all the best equipment!

* Note: The article will be updated whenever a new 12GB RAM smartphone is released. Welcome to invite your attention to read!

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