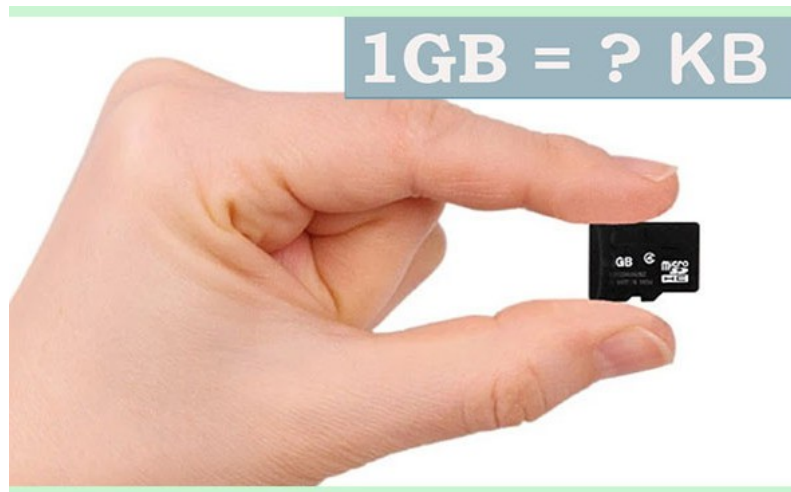


# 1kb equals how many bytes

TB, Gb, MB, KB, Byte,... are all units of measurement of data capacity for files, folders, storage devices.



GB, MB, KB, byte,. are all units used to measure data. The smallest unit is byte, so when converted, how many bytes is 1KB? Let's find out with *TipsMake* in the article below.

## What are TB, GB, MB, KB, Byte,...?

TB, Gb, MB, KB, Byte,. are all units of measurement of data capacity for files, folders, storage devices.

| Bảng đơn vị đo lường lưu trữ |            |              |  |
|------------------------------|------------|--------------|--|
| Medida                       | Simbologia | Equivalencia | Equivalente en Bytes                           |
| byte                         | b          | 8 bits       | 1 bytes  |
| Kilobyte                     | Kb         | 1024 bytes   | 1024 bytes                                     |
| Megabyte                     | MB         | 1024 KB      | 1048 576 bytes                                 |
| Gigabyte                     | GB         | 1024 MB      | 1073 741 824 bytes                             |
| Terabyte                     | TB         | 1024 GB      | 1099 511 627 776 bytes                         |
| Petabyte                     | PB         | 1024TB       | 1125 899 906 842 624 bytes                     |
| Exabyte                      | EB         | 1024 PB      | 1152 921 504 606 846 976 bytes                 |
| Zetabyte                     | ZB         | 1024 EB      | 1180 591 620 717 411 303 424 bytes             |
| Yottabyte                    | YB         | 1024 ZB      | 1208 925 819 614 629 174 706 176 bytes         |
| Brontobyte                   | BB         | 1024 BB      | 1237 940 039 285 380 274 899 124 224 bytes     |
| Geopbyte                     | GB         | 1024 GB      | 1267 650 600 228 229 401 496 703 205 376 bytes |

What are TB, GB, MB, KB, Byte,...?

The smallest unit of capacity is Bit and the largest is GB (Geopbyte). The order of capacity units from smallest to largest is as follows: Bit, Byte, KB, MB, GB, TB, PB, EB, ZB, YB, BB, GB (Geopbyte)

## **Storage capacity measurement unit table**

### **How many KB is 1GB?**

Based on the measurement table above, we can see that 1GB is equivalent to 1024MB and each MB is equivalent to 1024KB. This means:

$$1\text{GB} = 1024\text{MB} \times 1024\text{KB} = 1,048,576\text{KB}.$$

So, 1GB is equal to 1,048,576KB.

### **Some questions related to 1GB equals how many KB?**

#### **How long can 1GB be online?**

How long 1GB of mobile data lasts depends on the type of online activity you do.

1. Web browsing: For simple web pages (mostly text), you can surf for about 10 - 20 hours. For pages with lots of images or videos, 1GB can only get you online for about 5 - 10 hours.
2. Watch video: With SD quality video (480p) about 2 - 3 hours and HD quality video (720p) about 1 - 2 hours.
3. Listening to music online: Average sound quality (128kbps) about 20 - 30 hours. If you listen to high quality (320kbps), the usage time will be shorter, about 7 - 10 hours.
4. Gaming: You can play games for about 8.5 hours, equivalent to about 15 - 20 matches in games like Lien Quan Mobile or PUBG

#### **How many images can 1GB hold?**

The number of images that 1GB can hold depends on the size of each photo. Here are some estimates based on common image file sizes:

1. 2MB image size: 1GB can hold about 500 images.

2. 5MB image size: 1GB can hold about 200 images.
3. 10MB image size: 1GB can hold about 100 images.
4. 20MB image size: 1GB can hold about 50 images.
5. 50MB image size: 1GB can hold about 20 images.
6. 100MB image size: 1GB can hold about 10 images

## How many KB is 2 GB?

1GB is equivalent to 1024MB, and 1MB is equivalent to 1024KB. Therefore, 2 GB is equal to how many KB is calculated as follows:

$$2 \text{ GB} = 2 \times 1024\text{MB} \times 1024\text{KB} = 2\,097\,152 \text{ KB}.$$

## How many KB is 4GB?

Similar to calculating how many KB is 2 GB, we have the following formula to convert 4 GB to KB:

$$4\text{GB} = 4 \times 1024\text{MB} \times 1024\text{KB} = 4,194,304\text{KB}.$$

## Conclude

Through this article, readers have learned what units are used to measure 1KB equals how many bytes. Hopefully the information in this article will help you gain more useful knowledge about data capacity and their applications in practice.

You finished reading the article "**1kb equals how many bytes**" edited by the [TipsMake](#) team. We hope this article has provided you with many useful tech tips and tricks. You can search for similar articles on tips and guides. Thank you for reading and for following us regularly.