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how many microSD cards could fit in a 40-foot shipping container?

- ✓ Searching for: **microSD card dimensions**
- ✓ Searching for: **40-foot shipping container dimensions**
- ✓ Generating answers for you...

The dimensions of a microSD card are approximately 15mm x 11mm x 1mm<sup>1 2 3</sup>. The internal dimensions of a standard 40-foot shipping container are approximately 12.025m long x 2.352m wide x 2.393m high<sup>4 5 6 7</sup>.

To calculate the number of microSD cards that can fit in the container, we can divide the volume of the container by the volume of a microSD card.

The volume of a microSD card is:

$$V_{\text{microSD}} = 15\text{mm} \times 11\text{mm} \times 1\text{mm} = 165\text{mm}^3$$

Converting this to cubic meters gives:

$$V_{\text{microSD}} = 165 \times 10^{-9}\text{m}^3$$

The volume of the container is:

$$V_{\text{container}} = 12.025\text{m} \times 2.352\text{m} \times 2.393\text{m} \approx 67.7\text{m}^3$$

So, the number of microSD cards that can fit in the container is:

$$N = \frac{V_{\text{container}}}{V_{\text{microSD}}}$$

This is an approximation and assumes perfect packing without any wasted space, which is not realistic in practice. Also, it does not take into account the packaging of the microSD cards, which would significantly reduce the number that could fit in the container.

Ads



New topic

Ask me anything...



0/4000



Feedback





Let's calculate the total number of microSD cards that can fit in the container:

The volume of a microSD card is:

$$V_{\text{microSD}} = 165 \times 10^{-9} \text{m}^3$$

The volume of the container is:

$$V_{\text{container}} = 12.025\text{m} \times 2.352\text{m} \times 2.393\text{m} \approx 67.7\text{m}^3$$

So, the number of microSD cards that can fit in the container is:

$$N = \frac{V_{\text{container}}}{V_{\text{microSD}}} \approx \frac{67.7}{165 \times 10^{-9}} \approx 4.1 \times 10^{14}$$

So, approximately **410 trillion** microSD cards can fit in a 40-foot shipping container, assuming perfect packing without any wasted space. Please note that this is a theoretical calculation and the actual number would be less due to practical considerations such as packaging and imperfect packing.



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What could I do with 820 trillion terabytes of storage?

Generating answers for you...

With 820 trillion terabytes (or 820 zettabytes) of storage, you could do an enormous amount of data storage! Here are a few examples:

- Store the Internet:** In 2021, the size of the internet was estimated to be around 70 zettabytes. With 820 zettabytes, you could store the entire internet more than 11 times over!
- Digital Library:** The Library of Congress, the largest library in the world, has about 15 terabytes of web data. Your storage could hold more than 54 trillion copies of the Library of Congress's web data.
- Video Storage:** If we consider that one hour of 1080p video takes up about 1.5GB of space, you could store over 500 trillion hours of 1080p video. That's over 57 billion years of video, or more than four times the age of the universe!
- Scientific Data:** Large Hadron Collider (LHC) generates about 30 petabytes of data per year. Your storage could hold the data from the LHC for over 27 billion years.

Remember, these are just theoretical examples. Managing such a vast amount of data would pose significant challenges in terms of data organization, retrieval, and integrity. Not to mention the power requirements for such a storage system would be immense. But it's fun to imagine the possibilities! 😊



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New topic

Ask me anything...



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Feedback