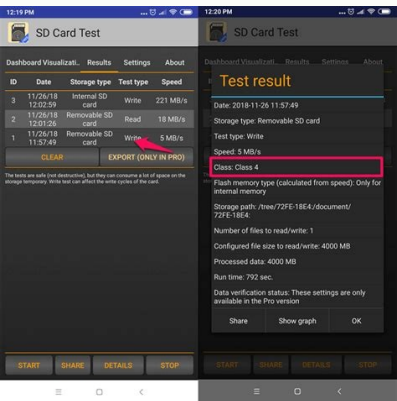


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MIN. WRITE SPEED	SPEED CLASS	UHS CLASS	VS CLASS	SUITABLE FOR
2 MB/S	2			
4 MB/S	4			
6 MB/S	6		V6	
10 MB/S	10	U1	V10	
30 MB/S		U3	V30	
60 MB/S			V60	
90 MB/S			V90	



Memori internal yang besar merupakan sebuah kebutuhan wajib smartphone masa kini. Beberapa aplikasi dan game Android, terutama game dengan grafis yang kompleks membutuhkan ruang penyimpanan cukup besar agar bisa di-install. Salah satu cara umum yang biasa dilakukan untuk mengatasi masalah tersebut adalah dengan menggunakan memori eksternal. Saat ini sudah tersedia beragam memori dengan pilihan penyimpanan yang bisa Anda gunakan di smartphone Android. Memori dengan tipe microSD tersebut hadir dengan berbagai kecepatan. Semakin cepat memori tersebut melakukan baca dan tulis, tentu akan semakin bagus. Untuk mengetahui seberapa cepat microSD bekerja, seperti yang Anda bisa mencoba aplikasi SD Card Test berikut ini. Menguji kecepatan microSD Pertama-tama, download aplikasi SD Card Test dan install seperti biasa di perangkat Android. Buka aplikasinya lalu pilih jenis penyimpanan yang ingin Anda uji kecepatannya. Anda bisa menguji kecepatan Write atau Read satu per satu. Lalu untuk memulai pengujian, klik tombol Start. Setelah beberapa saat pengujian berlangsung, Anda akan melihat kecepatan kartu memori tersebut pada grafik di atas. Pastikan kecepatannya sesuai dengan yang tertera di kemasan microSD. Itulah cara mudah untuk mengetahui kecepatan kartu memori eksternal maupun internal di Android. Jika Anda punya rekomendasi aplikasi lainnya, jangan lupa share di kolom komentar. Selamat mencoba! Ti sei mai chiesto qual è la velocità della tua scheda SD? E come si comporta rispetto ad altre carte sul mercato? Bene, abbiamo creato due app che sono più che sufficienti per risolvere tutte le tue domande. Una di queste app è per Analisi comparativa la scheda SD del tuo telefono per confrontare i risultati online e la seconda serve per testare la scrittura e la lettura velocità, anche con Classe della scheda SD. Quindi, procediamo con il tutorial e controlliamo come testare la velocità della scheda micro SD su Android. Testa facilmente la velocità della tua scheda SD con queste app 1. Banco AI SD Usando questo strumento, puoi confrontare la tua scheda SD esterna, interna, RAM, USB e molte altre opzioni di archiviazione. Scopriamo come. 1. Scarica questa app da Play Store. Successivamente, aprilo e tocca il scheda SD che vuoi testare e confrontare online. Questo inizierà Analisi comparativa. 2. Una volta completato, aprire il file Risultati scheda e scorrere verso il basso per confrontare i risultati online. Puoi anche controllare il confronto per altri tipi oltre alla scheda SD da menu a discesa. Oltre a questi passaggi, puoi anche aggiungere il file marca così come il classe della scheda SD nelle impostazioni. Leggi anche: 7 migliori app per l'organizzazione di SMS 2. Test della scheda SD Questa è un'app Android gratuita per tester per schede SD. Puoi anche utilizzare la sua versione pro per verificare se la scheda SD è falsa o danneggiata. 1. Puoi ottenere questa app da Play Store. Dopo aver avviato l'app, seleziona il scheda SD rimovibile casella di controllo e anche selezionare Tutto nella categoria accanto a Leggi e scrivi. Una volta che tutto è impostato, tocca inizio per iniziare la prova di velocità. Nota: questa app potrebbe richiedere più tempo rispetto a quanto sopra, quindi siediti e rilassati. 2. Una volta terminato il test, vai ai risultati scheda per controllare il Leggere e scrivere velocità della tua scheda micro SD. 3. Inoltre, puoi anche controllare il Classe della scheda SD dalla stessa schermata dei risultati. Basta toccare quel risultato visualizzato Scrivere come Tipo di prova. Questo aprirà un messaggio popup che mostrerà alcune informazioni aggiuntive dove Classe sarà mostrato. Leggi anche: 7 migliori app per il test della velocità di Internet Conclusione Questi erano metodi semplici per testare la velocità della scheda micro SD e il benchmarking della scheda SD. Entrambe queste app sono gratuite e i passaggi sono davvero semplici. Devi solo aspettare il tempo di caricamento che entrambi impiegano per scansionare la tua scheda SD o qualsiasi altro spazio di archiviazione preferito. E oltre a entrambe queste app, puoi anche usare App SD Insight per verificare se la tua scheda SD è falsa o meno. Sfortunatamente, questa app non è compatibile con il mio dispositivo, quindi non è stato possibile mostrarti i passaggi completi per lo stesso. Ora controlla la velocità della tua scheda SD in pochi tocchi. Un acquisto che molti utenti associano allo smartphone è una scheda microSD. Per potenziare la memoria del nostro dispositivo è un investimento necessario. E perciò anche delicato. Da oggi è più facile individuare le migliori grazie al nuovo simbolo che indica quelle adatte per la velocità delle app in esecuzione. Il simbolo A1 sulle microSD per le app. Chi ha comprato almeno una volta nella vita una scheda microSD si è accorto che queste presentano diversi simboli. Tra i più evidenti troviamo lo spazio totale d'archiviazione che questa può permetterci e le loro capacità (HC o XC). Generalmente le SDHC hanno una capacità da 4GB a 32GB. Mentre le SDXC hanno una capacità minima di 32GB fino ad un massimo di 2TB. Mancava però un simbolo per la velocità. E allora ecco che da oggi gli utenti potranno trovare la definizione A1 sulla scheda SD in vendita. In modo da sapere che con quella scheda le proprie applicazioni funzioneranno in maniera ottimale. Aumentare le prestazioni delle app Questa è un'ottima notizia per tutti quelli utenti che hanno un dispositivo Android Marshmallow o superiore. Se avete una vecchia scheda micro SD potete anche fare un test specifico per vedere se questa rientra nella classe delle schede A1. Alcune, specie quelle più datate, però difficilmente supereranno le prove che consistono nell'esecuzione perfetta delle applicazioni, delle immagini e dei video. Senza rallentamenti. Il simbolo A1 sarà ben evidente sulla scheda e sull'imballaggio, in modo che per i consumatori sia abbastanza facile riconoscere la nuova categoria di microSD. Le esigenze di mercato porteranno nel tempo anche alla nascita di altri livelli. Per rientrare nella categoria le schede SD devono avere questi requisiti: una lettura Input/output per second (IOPS) di 1500, una scrittura IOPS di 500 e delle prestazioni sequenziali superiori ai 10MB al secondo. SD card is widely used in daily life, but do you really understand it? An overview of SD card, the methods to conduct SD card speed test on Windows PC/Android/Mac all the contents in this post. You are able to know which one is the fastest SD card by testing the SD cards by yourself with the given methods in MiniTool. Basics of SD card like its definition, features, application, category and others will be introduced in this part. So, if you're not very clear about those or eager to know the related details, you shouldn't miss this part. About SD Card SD card (Secure Digital) is a new generation of memory device based on semiconductor flash memory. It is a portable device, a proprietary non-volatile memory card format developed by SD Card Association. The SD card is widely used in portable devices such as digital camera, personal digital assistant (PDA), media player, etc. -image from westermdigital.com In 2000, these companies (Matsushita & Toshiba of Japan and SanDisk of the United States) launched the SD Association (Secure Digital Association), which has a strong lineup and attracted a large number of vendors. These vendors include IBM, Microsoft, Motorola, NEC, Samsung, and others. Driven by these leading manufacturers, SD cards have become the most widely used memory card in consumer digital devices. The SD card is a multi-functional memory card with large capacity, high performance, security and other characteristics. It even has a password authentication function (SDMI specification) for data copyright protection than the MMC card, and the read/write speed is 4 times faster than the MMC card, up to 2M / second. To know how to format and clone the SD card, read the next two articles: SD Card Category SD, SDHC, SDXC, SDUC are four primary card categories in the market. They have different features but with the same function - data storage. Next, I will explain them briefly one by one. SD: The second generation of Secure Digital (SDSC or Secure Digital Standard Capacity) cards was developed to improve the MultiMediaCard (MMC) standard, which keeps improving but in different directions. The Secure Digital changes the design of MMC in multiple ways from shape, thickness, capacity, transfer speed to content protection. SDHC: The Secure Digital High Capacity (SDHC) format was released in January 2006. It is defined in SD specification 2.0 version to support cards with 32 GB (34,359,738,368 bytes) capacity at most. The SDHC trademark license is to ensure compatibility. The 2.0 version introduces the high-speed bus mode for both SDHC and SDSC. SDHC host devices only accept the older SD cards. However, the old host devices cannot recognize SDHC and SDXC cards though certain devices can do this by upgrading firmware. SDXC: The Secure Digital Extended Capacity (SDXC) format was released in January 2009. It is defined in the SD Specification version 3.01 and supports cards up to 2 TiB (219902325552 bytes), while the SDHC card in the SD 2.0 specification is limited to 32 GiB. You may be interested in this post: SDHC VS SDXC - Which One Is Better for You? SDUC: The Secure Digital Extra-large Capacity (SDUC) format, described in the SD 7.0 specification, was announced in June 2018. It supports cards up to 128 TiB (140,737,488,355 328 bytes) at speeds up to 985 MB / s, regardless of form factor. Micro or full size or interface type, including UHS-I, UHS-II, UHS-III or SD Express. SD Express interface can also be used with SDHC and SDXC cards. Having known their respective features, you can choose a suitable card based on your demand. In this way, you will have a great experience on your devices. If you would like to find a free partition tool for SD card, this post may be a wonderful reference for you: Best Free Partition Tool for SD Card - MiniTool Partition Wizard Why and How to Test SD Card Speed SD cards are applied in various applications ranging from cameras to phone, dashcams, and the Nintendo Switch. Whether the speed of SD card important? Obviously, the answer is absolute "Yes". You may see some SD card speed rankings on the Internet, but the fact that the fastest SD card must be the most suitable one you need is not always true. Price and availability are also important. Besides, whether your camera can make full use of SD card speed matters too. In most cases, you can put a high-speed SD card into a slower camera, but it is not always available. What's worse, you may sometimes buy a fake SD card or it doesn't have the capacity and the speed as it claims. But the good news is that you can test SD card speed with some free tools like MiniTool Partition Wizard, HD Tach, Crystal DiskMark, etc. The following part will introduce SD card speed test on Windows PC/Android/Mac. So, if you would like to know the details of SD card benchmark, please read carefully. SD Card Speed Test on Windows PC SD card speed test on Windows PC is very easy through the Disk Benchmark feature of MiniTool Partition Wizard. You are able to test the transfer speeds under various disk access no matter in sequential or random. Free Download Insert the SD card in your computer, then begin to test its speed with MiniTool Partition Wizard. Step 1: Launch MiniTool Partition Wizard to get its main interface, and then click on the Disk Benchmark feature in the toolbar. Step 2: Select the drive letter of your SD card. Before clicking the Start button, you can set parameters on the Disk Benchmark window according to your demand. After that, click Start to continue the process. Tip: If you don't change the parameters manually, the program will execute the operation according to the default conditions. Step 3: Wait for a while, all the results will show you in a chart form. Then you can check and analyze all the speed test results displayed in the chart. Compare the test results with the speed printed on the SD card to see whether they have obvious difference. This is a great way to check whether it is a counterfeit SD card. You may have an interest in this post: Hard Drive/SSD Speed Test with Best Free Disk Benchmark Software - MiniTool SD Card Speed Test on Android You wonder SD card speed test Android after knowing how to test its speed on PC. Don't hurry! This section will tell you how to test SD card speed on Android. Certainly, you need to download an SD card speed test tool like A 1 SD Bench or SD Card Test to check your SD card speed. All of them are free SD card test software. After starting up the program, choose some parameters as you like on the applications to start the operation. Then, you will get all the results you want to obtain. SD Card Speed Test on Mac SD card speed test on Mac is also available through some software, such as NovaBench, Blackmagic Disk Speed Test. If you follow the instruction, you can acquire the SD card speed results. NovaBench is a free SD card speed test tool for Mac operating system. It enables you to measure the read& write speed of disk and check the memory transfer speed, CPU, GPU speed and others. Blackmagic Disk Speed Test is also a free disk test software applied for Mac operating system. It's easy to use and has a high speed. SD Card Speed Rating After testing multiple SD cards, you may find their speeds are various. So, here comes the need of SD card rating. The speed rating enables you to classify SD cards' speed clearly. The SD Association has two UHS speed ratings, UHS speed grade 1 and UHS speed grade 3. UHS speed grade 1 supports a minimum write speed of 10MB / s, while UHS speed grade 3 supports a minimum write speed of 30MB / s. The UHS speed grade is usually represented by 1 or 3 inside the U symbol. According to previous experience, cameras with 4K capabilities usually at least need a UHS Speed Class 3 (U3) class SD. What you need to know is that the UHS Speed Level is different from the UHS BUS Speed. The UHS bus speed is expressed in Roman numerals I, II or III and represents the theoretical maximum read and write speed. However, unlike UHS speed grades, these are not sustained speeds. Though the minimum speed is very important for the normal operation of the device (GoPro cameras often require UHS Speed Class 3), the maximum speed should not impact the operation of the device, but may shorten the time required to download material from the SD card. In general, a UHS Speed Rating SD card is enough. The higher UHS Speed card could be expensive and not necessary. Memory card manufacturers usually measure the speed of their cards in megabytes per second or MB/s (or MBps, both in uppercase letter "B"). However, the video recording bit rate is usually measured in megabits per second or Mb / s (or Mbps, lowercase letter "b"). They are not the same. A byte has 8 bits, so from megabits per second to megabytes per second, you multiply by 8. So 80MB / s is the same as 640Mb / s. This is a convenient conversion calculator. To sum up, there are three points you need to pay attention to: Make sure your card shows a "UHS Speed Class of 3" indicating the card with a minimum read & write speed of 30 MB/ second. The SD card is formatted as FAT32 (32GB or smaller) or exFAT (larger than 32 GB) You can use the given methods to confirm your SD card speed, because the counterfeit SD card is also available even it doesn't achieve the speed printed on the card. I get some SD card speed test methods on Windows PC/Android/Mac? This post is worth sharing with you. Click to Tweet Conclusion Read here, you may have a clear understanding of SD card speed test on Windows PC/Android/MAC and some additional information about SD card. If you want to do the SD card speed test, just choose a suitable one from the given methods according to your situation. With some free tools like MiniTool Partition Wizard, you can do the SD card benchmark easily. In this way, finding a suitable SD card for your device would be rather simple. If you have any good idea about SD card speed test, you can share with us. We would appreciate it if you leave any suggestion or comment by sending an email to . SD Card Speed Test FAQ What is the speed class rating on SD cards? The speed class rating (Class 2, 4, 6 and 10) of SD cards is set based on the standardization of data transfer speeds by the SD Card Association (SDA). The specific speed class rating has its own data transfer speed. Class 2: the minimum write speed is 2MB/s or higher. Class 4: the minimum write speed is 4MB/s or higher. Class 6: the minimum write speed is 6MB/s or higher. Class 10: the minimum write speed is 10MB/s or higher. Will a Class 10 SD card work in a Class 4 device? Yes, it can work in the Class 4 device. All the speed class rating SDHC cards can be compatible with SDHC devices. If you see the notice - Class 4 is the minimum on a device, you should install a Class 4, Class 6 or Class 10 SDHC on it. How can I test the speed of my SD card? You can test your SD card speed via a free tool - MiniTool Partition Wizard. The Disk Benchmark feature of this program enables you to obtain the speed quickly. Not only it can test your SD card speed, but also it allows you to test your USB devices' speed. Which SD card is fastest? At present, the fastest SD (write speed) card is the Sony SF-G 300MB/s UHS-II 32GB (the sequential write speed is 273.672MB/s). While the fastest SD card (read speed) is the Transcend Ultimate UHS-II U3 32GB (the sequential write speed is 307.050MB/s).

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