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## Ddr3l difference ddr3

How to tell difference between ddr3 and ddr3l. Difference between ddr3l-1600 and ddr3l-1866. Difference between ddr3l-1600 and ddr3-1866. Difference between ddr3 and ddr3l. Difference entre ddr3 et ddr3l. Physical difference between ddr3 and ddr3l. What is the main difference between ddr3 and ddr3l. Difference between ddr3 and ddr3l ram.

What is the difference between DDR3 and DDR3L? These are high performance RAM widely used in modern motherboard and processors. They are suitable for PCs and mobile devices. The article provides the basic difference between DDR3 and DDR3L in tabular and dot form for easier comprehension. What is DDR3? DDR3 is an abbreviation for Double Data Rate Type 3. This is a type of DRAM that can exist to replace DDR and DDR2. Most computers and laptops use DDR3 as RAM since it was introduced into the market in 2007. The most wonderful thing about DDR3 is that it consumes less power than DDR and DDR2. It has a voltage specification of 1.5V. In addition, they tend to be available at different frequencies such as 800, 1066, 1333, 1600, 1866 and 2133 MHz. In addition, it allows chips that have a capacity of up to 8 GB. Personal computers use DDR RAM which has 240 pins and a length of about 133.35 mm. Those DDR3 PC modules are known as SO-DIMMs even though they have less pin and a shorter length of 67.6 mm. What is DDR3L? DDR3L refers to a special type of DDR3 where L refers to low voltage. The standard power consumption of DDR3L is about 1.35V. According to experts, lower power consumption helps to extend the battery life. However, it is only used in mobile and embedded devices rather than PCs. The memory density, frequencies, and protocols of DDR3L tend to be very similar to that of DDR3. RAM tends to occur as SO-DIMM modules which have a length of 67.5 mm and 240 pins longer than those of DIMM. Comparison Chart: DDR3 Vs DDR3L Basic Terms DDR3DDR3LVoltage1.5V1.35VPins240, 204 240, 204NameDouble Data Rate Type 3Double Type 3 Low Voltage Standard Memory DensityUp to 8GBUp to 8GB Heat Generation HighLessPower ConsumptionLowSupported Frequencies800, 1066, 1333, 1600, 1866, 2133 MHz800, 1066, 1333, 1600, 1866, 2133 MHzPC3 Identification Written on JEDEC Compliant TextPC3L Written on JEDEC Compliant Text Better and faster than DDR2 RAMGenerates less heat and consumes less power than regular DDR3 RAM. UseUp to Intel 3rd Generation (Ivy Bridge) or older processorsIntel 4th Generation (Haswell), 5th Generation (Broadwell), Skylake Processors, AMD FX series and higher processors Fundamental difference between DDR3 and DDR3L DDR3L power consumption is lower than DDR3DDR3L generates less heat DDR3DDR3L is mainly used in mobile devices such as laptops and embedded devices while DDR3 used only in PCs. The acquisition cost of DDR3L is higher than that of DDR3DDR3L is a special type of DDR3 where L represents a low voltage standard. The amount of voltage in DDR3 is 1.5V while that of DDR3L is 1.3V.Also like:Comparison Video Conclusion Voltage specifications help to identify the basic difference between DDR3 and DDR3L. The voltage specification of DDR is 1.5V while DDR3L is 1.3V. I hope you now have a clear idea about these products. The L version indicates low voltage and is quite common on DDR3L. Moreand ReferencesDDR3 and DDR3L. Slide ShareDDR3. Wikipedia To increase your RAM with DDR3 cards is a very popular practice among many users. However, there is a persistent doubt about the compatibility of the DDR3L card with its predecessor, due to its dual voltage function. That's why we decided to talk about DDR3 vs DDR3L Compatibility. DDR3 vs DDR3L Compatibility If you have a computer built with Intel 4th Generation processors, you need the new DDR3L memory card (SoDIMM - DDR3L) to replace or add new memory cards. Computers supplied with previous generation processors are compatible with both models (DDR3 and DD3L). DDR3L is a dual voltage memory DIMM that can operate at two voltages, 1.5v and 1.35V. It is also compatible with DDR3 memory cards. However, DDR3 memory cards are a single voltage memory DIMM, which only supports 1.5V operation. What are DDR3 and DDR3L memory cards? DDR3 and DDR3L are memory card templates that you can use to increase RAM (Random Access Memory) on your computer. DDR3 stands for "Double Data Rate 3". Most people often use this term with the term DIMM and SoDIMM, which stands for "Dual Inline Memory Module" and "Standard Outline Dual Inline Memory Module". The latter term refers to the specific device for which they were designed. DIMM is designed for desktop computer and SODIMM for laptops. See why it is convenient for you to know these specific terms when buying your Update Card. This way, you can avoid buying the wrong type of memory for your computer. What is the difference between DDR3 and DDR3L? DDR3L is the evolution of the DDR3. Just as its predecessor with DDR2, the DDR3L has a significant improvement. Designed for Intel 4th Generation -Core processors, it operates with a voltage of 1.35 V, while its predecessor operates at 1.5 V ("L" counts for low voltage). A DDR3L could save 25% more power than its predecessor. SaleTimeec 4GB DDR3L /DDR3 1600MHz PC3L-12800 / DDR3L /DDR3 1600MHz PC3L-12800 / PCS-12800 240-Pin not supplied Not ECC 1.35V / 1.5V CL11 Double Rank... Module Size. 4GB Package: 1x4GB; JEDEC Standard 1.35V, this is a double voltage piece and can work... PCB The color can be different (black or green) due to different batches of production; All Timetec... This difference results in a lower heat-release and longer battery life. These improvements make DDR3L ideal for laptops, where space is limited and temperature is a key factor. Are DDR3L and DDR compatible? clarify compatibility between both RAM cards: Pin DDR3L compatibility is compatible with DDR3, with 204 pins each in the SoDIMM version. Remember that the "pins" aremetal pieces that connect the ram to the motherboard. When two cards are "pin compatible" it means that they adapt indistinctly to the same slot. Power CompatibilityDDR3L is a dual voltage memory that supports both 1,35 V and 1.5 V, while DDR3 DDR3only 1.5 V. Computers built with the 4th Generation intel will only support DDR3L RAM cards. Computers other than this can use both DDR3L and DDR3, even in the same device.This means that if the computer has a chip lower than the 4th Generation Intel, it is possible to insert one or two DDR3L cards indistinctly, because being dual cards, they go from 1.35V to 1.5V.Is the DDR3L better than the DDR3?With 25% less power consumption than the DDR3 in mobile devices, it is not possible to insert one or two DDR3 cards. It is doubtful that DDR3L will provide more endurance, speed and a more stable experience. Even if the RAM is shared on the same device with a DDR3 card and a DDR3L card. Of course, this only applies when the memory cards are in a compatible device.Can I put the DDR3 RAM into a DDR3L slot?If your desktop processor or laptop chip is smaller than the 4th Generation Intel chip, yes, you can put a DDR3L into a free slot. If this is not your case, the card is not compatible and you could damage your graphics card if you try to do so.What happens if I insert an incompatible card into my blank slot?You are inserting an incompatible card when your computer has a 4th Generation Intel Chip processor and insert a DDR3 card. Keep in mind that DDR3 cards require more power to operate (1.5 V, vs. 1.35 DDR3L). The card will continuously require more power (electricity) from the motherboard and PCI, which the device's CPU and GPU cannot handle.The system will not be able to perform the power-on autotest, a standard procedure when the computer is turned on.As a result, if the GPU is not able to handle 1.5V, the GPU will not be able to deliver video to the display, and the monitor will finish blue. If this situation continues over time, you may overload your electrical resistors and burn them.What is the latest DDR RAM?In addition, at the DDR3L, it is a RAM card with an even lower power requirement, the DDR3U.DDR3U (À"U" stands for "Ultra Low") is a memory card that consumes 10% less than the DDR3L (1.25V). It is not a direct alternative to competitors of their peers DDR3 and DDR3L, as it has been designed for the Server market segment.Other DDRs available or under development are DDR4 and DDR5. The DDR4 has been on the market massively since 2016, but is compatible with itself only in very high-end models. The DDR5 is still being designed.ConclusionTo clarify the compatibility between the DDR3 and the DDR3L, the crucial point is to identify the generation of our device processor. It will have compatibility if the device has a processor other than the fourth generation Intel processor. The DDR3L RAM card features significant improvements in energy saving and performance. Posted by Akshat Verma in Hardware DDR3 and DDR3L are high performance RAM with motherboards and more recent processors. DDR3 memory can be classified into two types: 1. Normal DDR3 memory 2. Normal DDR3L memory o DDR3 RAM is a high-speed, high-voltage computer memory running on 1.5V (volt). It is the successor of DDR2 memory and the main advantages of DDR3 memory over DDR2 one is faster speed/frequency and bandwidth, it needs less voltage and generates less heat. Generally the speed of a DDR3 memory varies from 1066MHz to 2133MHz. Some even faster DDR3 memories exist, but they are very expensive and not very popular. The DDR3 RAM is not compatible with systems that specifically require 1.35V memory for their operation. What is DDR3L memory? DDR3L or DDR3-Low Voltage RAM is a high-speed memory that has the same pins and size as a regular DDR3 RAM, but is a dual voltage memory. The DDR3L memory can work on both 1.5V and 1.35V, which means it can work on both low and high voltage. The DDR3L memory is also backward compatible with DDR3, which means that you can run DDR3L memory on a system or motherboard that uses or requires traditional or regular DDR3 RAM. In DDR3 SoDIMM it is written "PC3L" on the JEDEC compliant text (Adhesive on the RAM module) for identification purposes and in DDR3 memory the written text is only "PC3." DDR3L is generally used with 4th and 5th generation Intel processors and AMD FX series CPUs. The main advantages of DDR3L memory compared to DDR3 are lower power requirements, lower heat generation, support for new processors and motherboards, and slightly higher performance. There is also a DDR3LU (DDR3 Ultra Low Voltage) RAM that runs at 1.25V, which is even less than the DDR3L RAM. Comparison between DDR3 and DDR3L Memory Voltage 1.5V (Single Voltage) 1.35V and 1.5V (Dual Voltage) Pins 240, 204À 240, 204 Compatible with reverse No Yes, compatible with DDR3 DIMM / SoDIMM Dimensions Same as DDR3 DIMM / SoDIMM Mod Memory module Usage up to Intel 3rd generation processors (Ivy Bridge) or earlier Intel 4th generation processors (Haswell), 5th generation (Broadwell), Skylake processors, AMD FX series and higher processors Benefits Better and faster than DDR2 RAM Generates less heat and consumes less power than DDR3 RAM. It also performs a bit better than DDR3 RAM Identification PC3 written to JEDEC compliant text (Sticker on RAM module) PC3L written to JEDEC compliant text Read more about RAM: A Professional Blogger, Web Developer, Hardware Enthusiast, Gamer, Geek and Founder of many other websites. He holds an M.Tech degree in IT and a B.E. degree in Computer Science and Engineering, Engineering.

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