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LGA 1155TypeLGAProcessor Dimensions37.5 × 37.5 mm2[1]ProcessorsSandy Bridge, Ivy BridgePredecessorLGA 1156SuccessorLGA 1150Memory supportDDR3This article is part of the CPU socket series View of the socket LGA 1155 on an Intel Core i7 Sandy Bridge 2600K model CPU Celeron G530 Sandy Bridge installed on a socket 1155 LGA 1155, also called Socket H2, is a socket that is used for Intel microprocessors based on Sandy Bridge (2 generation, Generation), 32nm, 2k series) and Ivy Bridge (3rd Gen, 22nm, 3k series) microarchitectures. He is the successor to the LGA 1156 (known as Socket H) and was replaced by LGA 1150 in 2013. Along with selected variants of the LGA 2011 socket, it was the last Intel socket to fully support Windows XP and Windows Server 2003. LGA 1155 has 1155 protruding pins to make contact with the pads on the processor. The pins are arranged in a 40×40 array with a 24×16 central cavity and an additional 61 omitted pins (two adjacent to the central void, six in each of the four corners and 35 in groups around the perimeter), resulting in the 1600 - 384 - 61 = 1155 pin number. Processors for LGA 1155 and LGA 1156 sockets are not compatible with each other because they have different socket notches. LGA 1155 also marked the beginning of safe booting with support in some later boards. Heatsink The 4 holes for attaching the heat sink to the motherboard are placed in a square with a side length of 75 mm for Intel's LGA 1156. LGA 1155, LGA 1150, LGA 1151 and LGA 1200 sockets. Cooling solutions should therefore be interchangeable. Cooling systems are compatible between LGA 1155 and LGA 1156 sockets because the processors have the same dimensions, profile and construction and similar levels of heat production. [2] Sandy Bridge Chipset Family See also: Cougar Point and list of Intel chipsets with LGA 1155 Sandy Bridge chipsets, except B65, Q65, and Q67, support both Sandy Bridge and Ivy Bridge CPUs with a BIOS upgrade. [3] Sandy Bridge-based processors officially support up to DDR3-1333 memory, but in practice speeds of up to DDR3-2133 have been tested to work successfully. [4] The H61 chipset only supports one double-sided DIMM memory module (RAM module) per memory channel and is therefore limited to 16 GB instead of the 32 GB supported as the other supported. [5] Only four one-sided DIMMs can be installed on H61-based motherboards with four DIMM slots. [6] Name[7] H61 B65 Q65 Q67 H67[8] P67 Z68[9] Overclocking GPU CPU + RAM + GPU + RAM Allows you to use the built-in GPU with Intel Clear Video Technology Yes No Yes Maximum USB 2.0 Ports[a] 10 12 14 Maximum SATA 2.0/3.0 Ports 4 / 0 4 / 1 4 / 2 Main PCIe Configuration 1 × PCIe 2.0 ×16 1 × PCIe 2.0 ×16 or 2 × PCIe 2.0 ×8 6 × PCIe 2.0 ×1 8 × PCIe 2.0 ×1 Conventional PCI support[b] No Yes No Intel Rapid Storage Technology (RAID) No Yes Smart Response Technology No Yes Ivy Bridge Processor Processor Yes No Yes Intel Active Management, Trusted Execution, Anti-Theft, and vPro Technology No Yes No Release Date February 2011 May 2011 January 2011 May 2011 Maximum TDP 6.1 W Chipset Lithograph 65 nm Ivy Bridge Family of Chipsets See also: Panther Point and List of Intel Chipsets - LGA 1155 All Ivy Bridge Chipsets and Motherboards Support Both Sandy and Ivy Bridge CPUs. Ivy Bridge-based processors will officially support up to DDR3-1600, compared to DDR3-1333 by Sandy Bridge. Some Consumer Ivy Bridge chipsets also allow Overclocking of K-Series Processors. [10] Name[11] B75 Q75 Q77 C216 H77 Z75 Z77 OverclockCPU (Bclk) + GPU CPU + GPU + RAM Allows you to use the built-in GPU Yes Intel Clear Video Technology Yes RAID No Maximum USB 2.0/3.0 Ports 8 / 4 10 / 4 Maximum SATA 2.0/3.0 Ports 5 / 1 4 / 2 Main PCIe Configuration[c] 1 × PCIe 3.0 ×16 1 × PCIe 3.0 ×16 or 2 × PCIe 3.0 ×8 1 × PCIe 3.0 ×16 or 2 × PCIe 3.0 ×8 or 1 × PCIe 3.0 ×8 and 2 × PCIe 3.0 ×4 Secondary PCIe 8 PCIe 2.0 ×1 Conventional PCI[b] Yes No [12] Intel Rapid Storage Technology No Yes Yes Intel Anti-Theft Technology Yes Smart Response Technology No Yes Yes Intel vPro Platform Authorization No Yes No Release Date April 2012[13] May 2012 April 2012 Maximum TDP 6.7 W Chipset Lithograph 65 nm[14] NVMe Main Article : NVM Express A PCGHX user[who?] wrote an article on the website de:PC Games Hardware that describes how to take UEFI modules from some Z97 motherboards and use them with a Z77 motherboard to enable the latter support boot from an SSD with the NVM Express protocol instead of the AHCI protocol. [15] This article claims that the Z97 motherboards were the first to officially and fully support the NVMe protocol. The described mods also work with B75 chipset motherboards. Notes - USB 3.0 is not supported by any of these chipsets. Motherboard manufacturers can use external hardware to add USB 3.0 support. A b Although some of the chipsets do not support traditional PCs, motherboard manufacturers may include support by adding third-party PCI bridges. For PCIe 3.0 capability, the Ivy Bridge CPU must have the appropriate PCIe 3.0 controller. However, some Ivy Bridge CPUs have only one PCIe 2.0 controller. References Intel Core 2 gen CPUs and Socket 1155 Datasheet (PDF). • Intel Core processor 2nd generation, LGA1155 socket: (PDF). Download.intel.com. Archived from the original (PDF) on Jul 13, 2011. Retrieved 2012-09-26. \* Ivy Bridge Quad-Core to Have 77W TDP, Intel Plans for LGA1155 Ivy Bridge Entry. techPowerUp. Retrieved 2012-09-26. \* Sandy Bridge Memory Scaling: Choosing the Best DDR3. Anandtech. Retrieved 2012-09-26. \* Intel H61 Express Intel.com. Retrieved 2012-09-26. \* Motherboards- ASUS P8H61 EVO. Asus. Retrieved 2012-09-26. • ARK - Compare Intel products. Intel ARK (Product Specifications). \* Intel H67 Express chipset. Chipset. Retrieved 2012-09-26. \* Intel SSD Caching Feature for Z68 Chipset Explored. Vr-zone.com. 2011-04-25. Retrieved 2012-09-26. \* Intel's Roadmap: Ivy Bridge, Panther Point, and SSDs. Anandtech. Retrieved 2012-09-26. • ARK - Compare Intel products. Intel ARK (Product Specifications). \* Intel 7 Series Chipset Family PCH: Datasheet. Intel.com. Retrieved 2014-12-02. Intel 7-Series chipset officially debuted, Derived Desktop Board Products launched. techPowerUp. Retrieved 2012-09-26. ARK | Intel Z77 Express Chipset (Intel BD82Z77 PCH). Ark.intel.com. Retrieved 2012-09-26. \* Booting from an NVMe SSD. 2016-10-13. External Links Intel Desktop Processor Integration Overview (LGA115x) Retrieved from Do you know in the tech world how many days it takes to double computer processing speed? According to Moore's law, it only takes 18 months! But most of the time many of us will not have the ability or need to change our processors at such a rate. So we need to use the best type of processorthat can fit into our running motherboard jack. Because we all know that a particular CPU socket is compatible with a specific motherboard socket. If you belong to a socket LGA 1155 motherboard, it is possible to use core i7/i5/i3, Pentium, Celeron and Xeon processors in your PC. These processors support up to 4 CPU cores, 8MB L3 cache and 3.7GHz clock speed. Depending on the task you do, you need to decide whether you should buy a high-end best LGA 1155 CPU or an average one that is definitely worth your money. Top 3 LGA 1155 CPU ListBest LGA 1155 CPU reviews Intel Core i7-3770K – Best LGA 1155 CPU for GamingKey Features4 CPU Cores8 CPU Threads3.50 GHz Clock Speed3.90 GHz Turbo Speed8 MB L3 Intel smart cache5 GT/s Busspeed2 Memory channels support up to 32 GB memory22n lithography77W Thermal Design PowerSupports DDR3 1333/1600 memory25.6GB maximum memory bandwidthIntel HD Graphics 4000650 MHz graphics base frequency1.15 GHz graphics max dynamic frequencyThermal monitoring technology integrated check price on Amazon.comDetailed FeaturesThe Intel Core i7-3770K is one of the best CPU with its excellent performance and energy efficiency. It comes with a quad-core processor integrated with the built-in Sandy Bridge architecture, which is the previous market-leading generation. It has a base frequency of 3.50 GHz and a turbo frequency of 3.90 GHz. There are also 8 CPU threads, 8MB L3 cache, Turbo Boost technology 2.0, including an innovative 22nm 3D transistor that gives you a revolutionary faster speed. With the 4 CPU cores, you can run four apps very smoothly. This Ivy Bridge CPU offers you 5 billion transfers with its 5 GT/s bus speed to increase your data transfer speed. To reduce CPU pressure, it has 2 memory channels that can afford up to 32 GB of memory. They will be maximum 25.6 GB of memory bandwidth. The CPU supports DDR3 1333/1600 memory and has integrated Intel HD Graphics 4000. The graphics have DirectX11 compatibility allows you to run most of the modern high-tech games, but not in the highest settings. Sometimes you may find problems running high-resolution games. But the additional graphics will certainly help you overcome this problem. With its 650 MHz graphics base frequency and 1.15 GHz graphics max dynamic frequency, you can see and feel in HD or 3D. It also offers you better 3D streaming, multitasking or multimedia facilities. The CPU can automatically monitor its temperature via its thermal monitoring sensor and provides sufficient cooling environment for the safety of the CPU. It consumes only 77W thermal design power, which will not make unnecessary electricity bills. The price of the CPU is high, but this will give you the best bang for the buck with its so many modern features. This makes it easier for you to get a new level of performance and pumps the most out of your investment. ProSuperb speed and reliable. Better game quality. Good value for money product. Great graphics quality. Can dynamically adjust graphics clocks with its turbo boost. Comparatively high in price. Limited GPU performance. Check Price on Amazon.com Intel Core i7-3770 – Best Budget CPUKey Features4 CPU Cores8 CPU Threads3.40 GHz Clock Rate3.90 GHz Turbo Speed5 GT/s Bus Speed8 MB L3 Intel smart cacheSupports DDR3 1333/1600 Memory2 Memory Channels, the up to 32GB memory 22n m lithograph25.6GB/s maximum memory bandwidth650 MHz graphics base frequency77W Thermal Design PowerIntel HD Graphics 40001.15 GHz graphics max dynamic frequencythermal monitoring technology integrated Check Price on Amazon.comDetailed featuresThe Intel Core i7-3770 is one of the most versatile desktops since 2012. It comes with a quad-core processor, including 8 CPU threads. It also allows 3.4GHz clock speed as well as 3.9GHz turbo speed and 8MB L3 common cache. In addition, it has a 5 GT/s bus speed to increase your CPU speed and allows you to move large files within a minute. In addition, you can set the computer as you want by overclocking the original speed of the processor with its Intel Turbo Boost 2.0. Technology.To talking about gaming, this CPU is like a beast with its DDR3 1333/1600 memory and DirecX11. In addition, it has 2 memory channels to support up to 32GB of storage. It also offers Intel HD Graphics 4000 for the right resolution. In addition, it has 650 MHz graphics base frequency and 1.15 GHz graphics max dynamic frequency, not to mention its Video. The CPU allows you to enjoy HD, 3D, multimedia streaming through its Intel Clear HD technology. Its thermal monitoring technology provides you with fast cooling after using the CPU. The CPU offers you a new level of gaming and streaming and multitasking facilities. If you are looking for a budget Combined with solid performance, the Intel Core i7-3770 quad-core processor is a good choice for you. Get to know Best LGA 1151 CPU for highest performance. ProBudget-friendly product. Very fast and efficient. Completely silent. Supports DirecX11.HDMI Audio bitstreaming for better sound quality. ConsTemperature can rise high. Check Price on Amazon.comIntel Core i5-3470Key Features4 Counting Cores4 CPU Threads3.20 Basic Frequency3.60 Turbo Frequency6 MB L3 Intel Smart Cache5 GT/s Bus SpeedMax Thermal Design Power 77W2 Memory Channels, the up to 32GB memory backup22nm lithographSupports DDR3 13 33/1600 memory650 MHz graphics base frequency1.10 GHz graphics max dynamic frequencyIntel HD Graphics 2500Intel Clear Video HD technology integrated25.6 GB/s max memory bandwidthThermal monitoring technology available Check Price on Amazon.comDetailed featuresIf you want solid performance with extreme gaming, but scarce in budget, The Intel Core i5-3470 is a smart purchase for you. It comes with a quad-core desktop processor based on Ivy Bridge architecture. It features 3.20 am speed and 3.60 turbo speed along with 6MB Intel Smart L3 cache. The CPU allows you to dynamically adjust the clock rate through its 2.0 Turbo Boost. The CPU has an integrated Sandy Bridge structure to improve both CPU and GPU performance. It offers a 22nm 3D transistor, helping to increase energy efficiency. The CPU has a bus speed of 5 GT/s, so you can transfer large files within an instant. When you talk about performance, it's one of the best. It supports DDR3 1333/1600 memory. In addition, 2 memory channels support up to 32GB, built into Intel HD Graphics 2500. The GPU offers 6 execution units with a turbo boost of 650 MHz and 1100 MHz. The speed allows you to run some of the trendy games. The CPU features Intel Clear Video HD technology that gives you better HD streaming. It also helps you enjoy stereoscopic 3D Blu-ray playback from Intel InTru 3D technology. Thus, this CPU offers you a wide range of entertainment, helps you enjoy stunning graphics, and offers you multi-threaded performance. In addition, it will automatically cool down by its thermal monitoring technology after use, helping to keep the CPU safe. So, you get first-class service without making a hole in your wallet. ProsComparatively low price. Amazing CPU performance in terms of price. Very fast and reliable. Better for multitasking. Cons poor 3D performance. multiplier is not fully unlocked. Check the price on Amazon.com Intel Core i7-2600 - Best Easy to Install CPUKey CPU-Kerne8 CPU-Threads32nm Sandy Bridge8 MB L3 Intel Smart Cache3.40 Taktgeschwindigkeit3.80 Turbo-Geschwindigkeit5 GT/s BusgeschwindigkeitThermal Design Power 95WUnterstützt DDR3 1066/1333 MHz SpeicherDuale Speicherkanäle unterstützen bis zu 32 GB Speicher21 GB /s maximale SpeicherbandbreiteIntel HD Graphics 2000850 MHz Graphics Base frequency1.35 GHz graphics max dynamic frequencyIntel frequencyIntel HD video technology integratedthermal monitoring technology integrated Check Price on Amazon.comDetailed featuresThe Intel Core i7-2600 is an old but not outdated with its amazing speed and smooth performance. The CPU comes with 4 counting cores and 8 threads run at a tempo of 3.4 GHz. This quad-core processor integrates with hyper-threading technology, provides 8-way multicore processing to help improve multitasking, provides more speed for workflow, increases your compute productivity. It has 8 MB i3 shared cache reduces latency and improves performance by dynamically assigning to each processor core. It allows you to dynamically adjust the clock rate with its Intel Turbo Boost technology 2.0. In addition, the technology increases turbo clockspeed up to 3.8 GHz when the workload requires additional power. Plus, it has a bus speed of 5GB/s you can transfer great files to transfer the watch. It supports Intel HD Graphics 2000 to give you seamless graphics experience. It also has DDR3 1066/1333 MHz memory and 32GB dual memory channels. The graphics are not fancy, but good for decent play. You can run modern casual games without any problems. Its graphics clock has the ability to increase the speed from 850 MHz to 1350 MHz so you can enjoy rich and colorful images. With its clear HD video technology intel you can enjoy modern high-definition videos, 3D streaming, HD gaming function, etc. In addition, advanced vector extensions allow you to use audio codecs, audio processing, and image and video editing applications. It consumes very little and power and can be cooled very quickly by its thermal monitoring technology. This CPU will be very convenient for easy games and personal use. ProsExcellent speed Better video qualityVery efficient in data transferGood for light gamerGood productBudget-friendly productCons Check Price on Amazon.comIntel Core i5-2400Key Features4 Counting Cores4 CPU Threads32nm Sandy Bridge6 MB L3 Intel Smart Cache3.10 Base Frequency3.40 Turbo Frequency5 GT/s Bus Speedbacking DDR3 1066/1333 MHz MemoryDual Memory Support Memory Integrated to 32GB memory21GB/s maximum memory bandwidthIntel HD Graphics 2000850 MHz graphics base frequency1.10GHz graphics max dynamic frequencyIntel Clear HD video technologyThermal Design Power 95W Check Price on Amazon.comDetailed featuresIf you are looking for a CPU with amazingly fast speed and cool performance in a decent budget, the Intel Core i5-2400 will really be a good option for you. It comes with a quad-core processor, a base frequency of 3.10 GHz and a turbo frequency of 3.40 GHz, 95W TDF. It also has a 6MB L3 smart cache that helps reduce the additional load of the CPU by dynamically assigning it to each processor. It offers a bus speed of 5 GT/s, helps to move data at an excellent speed. You can use the With its Intel Turbo Boost 2.0 technology, you can manually control the clock rate. It supports DDR3 1066/1333 MHz memory and 32 GB of memory. The CPU offers Intel HD Graphics 2000, which is not very good for heavy games. But you can play casual games without having to face latency or any problems. You can also read or store data in memory at a speed of 21 GB/s. The CPU offers you continuous graphics, manipulating images, media with its 850 MHz Graphics Base frequency and 1.10 GHz graphics max dynamic frequency. It also features Intel HD video technology allows you to experience today's HD quality video, stereoscopic 3D Blu-ray playback with variant color and sharp images. You also get excellent audio quality through its HDMI 1.4. The CPU is perfect for multitasking. You can run many applications such as audio processing, audio codecs, image and video editing with the advanced vector extensions. You can also create a virtual environment using Intel Virtualization Technology. It will provide very efficient service and fast cooling after use. The efficient speed and solid performance help your penny worth. ProCheap in price. Good value for money product. Better video quality. Extremely fast and efficient. Very good for multitasking. Cons Check Price on Amazon.comIntel Core i5-3550Key Features4 CPU Cores4 CPU Threads22nm Ivy Bridge 77W6 MB L3 Intel Smart Cache3.30 Basic Frequency3.70 Boost Frequency5 GT/s Bus SpeedSupported DDR3 1333/1600 MHz Memory 2 Memory Channels Support Up to 32 GB Memory25.6 GB/s maximum memory bandwidthIntel HD Graphics 2500650 MHz Graphics Base frequency1.10 GHz Graphics max Dynamic FrequencyIntel Clear HD Video Technology IntegratedThermal Monitoring Technology Check Price on Amazon.comDetailed FeaturesThe Intel Core i5-3550 is not the latest model, but very popular for its fast speed and incredible performance. It comes with a quad-core processor on the basis of the Ivy Bridge structure, not to mention its 22nm manufacturing technology reflected in the performance of the processor. It has a clock speed of 3.30 GHz and a turbo speed of 3.70 GHz in the company with 77 TDP. It also has a 6MB L3 cache and a bus speed of 5GB/s, helps reduce CPU workload and provides extra performance and provides enough speed to transfer data in no time. It also features Intel Turbo 2.0 technology that allows you to dynamically adjust clock speeds and improve computer productivity. The CPU has DDR3-1600/1333 memory, including 2 memory channels that support up to 32 GB of memory. In addition, It's Intel HD Graphics 2500, helps you enjoy most of today's favorite games. You can also get great experience playing 3D games through its Intel InTru 3D technology. The CPU offers Intel HD video technology, allows you to enjoy HD streaming, 3D Blu-ray playback, and so on. The 650 MHz graphics base frequency and 1.10 GHz graphics GHz graphics Dynamic frequency will provide various colorful and realistic video quality with sharp and crystal clear images. You can also store data in CPU memory at up to 25.6 GB per second. The CPU gives you good gaming, faster frame rate, higher resolution and better details. The price of the CPU is a bit high, but it's worth it. Return the excellent value for money. ProBreakneck speed and efficiency. Large gaming CPU. Better streaming quality. ConsComparatively high price. Cooler can be bad. Check Price on Amazon.com Intel Core i3-3240 – Best CPU for Casual UserKey Features2 CPU Cores4 CPU Threads22nm Ivy Bridge 77W3 MB L3 Intel Smart Cache3.40 Clock SpeedThermal Design Power 55W5 GT/s Bus Speed Supported DDR3 1333/1600 MHz MemoryDual Memory Channels support up to 32GB memory25.6GB/s maximum memory bandwidthIntel HD Graphics 2500650 MHz Graphics base frequency1.05GHz graphics max dynamic frequencyIntel Clear HD video technology availableThermal monitoring technology integrated Check Price on Amazon.comDetailed featuresNot everyone is a hardcore gamer or pro-level worker. Some people may need a CPU to do only casual work. In this case, making a highly configured desktop would be a waste of money. So, we've added this CPU to the list of our best LGA 1155 CPU reviews items. It is a dual-core processor based on the 22nm Ivy Bridge structure comes with 4 CPU threads and a clock rate of 3.4 GHz clock speed as well as 3 MB L3 common cache and 55W TDF. The 3MB cache stores half of the information as a 6MB cache, resulting in faster data search and no unnecessary load on your PC. It offers Intel hyper-threading technology to increase CPUs productivity and helps you do multitasking at a smooth speed. It also has a bus speed of 5 GT/s. At speed like this, you can transfer huge amounts of data at the moment. It supports a DDR3-1600/1333 memory along with a dual memory channel up to 32 GB of storage. As for the built-in graphics, this CPU features Intel HD Graphics 2500, which is pretty good. You can play light games at excellent speed, including better graphics quality. Although it is not designed for intense, you can repair it with an additional graphics card. The CPU offers stable graphics in HD quality with Intel Clear HD video technology. In addition, 25.6 GB/s memory bandwidth allows the processor to store data faster in RAM. With Intel InTru 3D technology, you can also experience 3D streaming and gaming. The CPUs 650 MHz base frequency and 1.05 GHz graphics max Frequency allow you to enjoy more lifelike videos with a sharp and colorful image. It helps you store up to 25.6GB of data per second in the GPU. This CPU will definitely be a bang for the buck for home, office or personal use. ProExtremely cheap in price. Amazing speed. Good video quality. Very efficient at work several tasks. ConsTurbo-Boost ConsTurbo-Boost difficulties in finding massive use. Check Price on Amazon.comFinal ThoughtsWe have covered almost all the important features and tips for purchasing your next best LGA 1155 CPU. Although it is always scary for all of us to choose any product from the market, remember, in this case performance is the most important thing everyone should consider before buying. In addition, the level of performance depends entirely on the task you are performing. So first, ask yourself what kind of work you need to do with your PC. Is it gaming, video editing or just regular daily work like writing, net surfing, etc.! If you are particularly concerned with your task, you can make a perfect decision based on the number of cores, clock rate, turbo speed, cache, etc., which will fully help change your PC experience. You Like ReadCanon Pixma MG3620 ReviewHP OfficeJet Pro 8710 Printer ReviewBest LGA 775 CPUBest 360mm AIO Cooler

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