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Intel core i5 2520m processor review

Effective Speed -79%Effective Speed -79%Average Score -190%1-Core -118%, 4-Core -226%, 2-Core -151%, 8-Core -443%, Memory -12%Overclocked Score -164%1-Core -89%, 2-Core -110%, 4-Core -204%, 8-Core -415%, Memory -4%Value & Sentiment -309%User Rating -81%, Market Share -1,308%, Price 187%, Value -35%Nice To Haves -598%64-Core -564%, 64-Core -621%, Age -608% The number of benchmark samples for this model as a percentage of all 45,588,445 CPUs tested. CPU Core i5-2520MIntel \$93Bench 53%, 44,570 samples1,940x EDIT WITH CUSTOM PC BUILDER Value: 58% - Above average Total price: \$124 How Fast Is Your CPU? (Bench your build) Size up your PC in less than a minute. Welcome to our freeware PC speed test tool. UserBenchmark will test your PC and compare the results to other users with the same components. You can quickly size up your PC, identify hardware problems and explore the best upgrades. UserBenchmark of the month Gaming Desktop ProGaming CPU GPU SSD HDD RAM USB How it works - Download and run UserBenchMark. - CPU tests include: integer, floating and string. - GPU tests include: six 3D game simulations. - Drive tests include: read, write, sustained write and mixed IO. - RAM tests include: single/multi core bandwidth and latency. - SkillBench (space shooter) tests user input accuracy. - Reports are generated and presented on userbenchmark.com. - Identify the strongest components in your PC. - See speed test results from other users. - Compare your components to the current market leaders. - Explore your best upgrade options with a virtual PC build. - Compare your in-game FPS to other users with your hardware. ADVERTISEMENT Group Test Results Best user rated - User sentiment trumps benchmarks for this comparison. Best value for money - Value for money is based on real world performance. Fastest real world speed - Real World Speed measures performance for typical consumers. DescriptionIntel® Core™ i5-2520M Processor (3M Cache, up to 3.20 GHz) Code NameSandy Bridge Launch DateQ1'11 Processor Numberi5-2520M # of Cores2 # of Threads4 Cache3 MB SmartCache Instruction Set64-bit Instruction Set ExtensionsAVX Embedded Options AvailableNo Lithography32 nm Recommended PriceN/A Clock Speed2.5 GHz Max Turbo Frequency3.2 GHz Bus Speed5 GT/s DMI Max TDP35 W Processor GraphicsIntel® HD Graphics 3000 Graphics Base Frequency650 MHz Graphics OutputDP/DP/HDMI/SDVO/CRT Wireless DisplayYes # of Displays Supported2 Graphics Max Dynamic Frequency1.3 GHz Quick Sync VideoYes InTru 3D TechYes Clear Video HD TechYes Flexible Display InterfaceYes Macrovision License RequiredNo Max Memory Size16 GB Memory TypesDDR3 1066/1333 Memory Channels2 Memory Bandwidth21.3 GB/s ECC Memory SupportedNo PCI Express Revision2.0 PCI Express Configurations1x16, 2x8, 1x8+2x4 Max # of PCI Express Lanes16 Virtualization Tech (VT-x)Yes Intel 64Yes Idle StatesYes Enhanced Intel SpeedStep® TechYes Thermal Monitoring TechnologiesYes Turbo Boost Tech2.0 Hyper-Threading TechYes Virtualization for Directed I/O (VT-d)Yes VT-x with Extended Page Tables (EPT)Yes Demand Based SwitchingNo vPro TechYes Identity Protection TechYes Fast Memory AccessYes My WiFi TechYes 4G WiMAX Wireless TechYes Package Size37.5mm x 37.5mm (rPGA988B); 31mm x 24mm (BGA1023) Graphics and IMC Lithography32 nm Max CPU Configuration1 Sockets SupportedPPGA988 Execute Disable BitYes Trusted Execution TechYes Anti-Theft TechYes Processor manufacturer * Intel Processor base frequency * 2.5 GHz Processor family * 2nd gen Intel® Core™ i5 Processor socket * PGA988 Processor lithography * 32 nm Processor series Intel Core i5-2500 Mobile Series Processor model * i5-2520M Processor operating modes * 64-bit Processor cache type Smart Cache Thermal Design Power (TDP) 35 W Processor boost frequency 3.2 GHz Generation 2nd Generation Compatible chipsets Intel® HM65 Express, Intel HM67 Express, Intel® QM67 Express, Intel Q567 Express CPU multiplier (bus/core ratio) 25 Memory bandwidth supported by processor (max) 21.3 GB/s Processor codename Sandy Bridge Maximum internal memory supported by processor 16 GB Memory types supported by processor DDR3-SDRAM Memory clock speeds supported by processor 1066,1333 MHz Memory channels * Dual-channel On-board graphics adapter * On-board graphics adapter model * Intel® HD Graphics 3000 On-board graphics adapter outputs supported Embedded DisplayPort (eDP), DisplayPort, HDMI, Serial Digital Video Out (SDVO), CRT On-board graphics adapter base frequency 650 MHz On-board graphics adapter dynamic frequency (max) 1300 MHz Number of displays supported (on-board graphics) 2 On-board graphics adapter ID 0x116 Thermal Monitoring Technologies Maximum number of PCI Express lanes 16 PCI Express slots version 2.0 PCI Express configurations 1x16,2x8,1x8+2x4 Supported instruction sets AVX CPU configuration (max) 1 Embedded options available Graphics & IMC lithography 32 nm PCI Express CEM revision 2.0 Harmonized System (HS) code 8542310001 Export Control Classification Number (ECCN) 5A992C Commodity Classification Automated Tracking System (CCATS) G077159 Images Type Map Image not available forColor: To view this video download Flash Player 1Description2Intel Quick Sync Video3Intel InTru 3D Technology4Intel Wireless Display5Intel Flexible Display Interface (Intel FDI)6Intel Clear Video HD Technology7Intel Turbo Boost 2.0 Technology8Intel vPro Technology9Intel Hyper-Threading Technology (Intel HT)10Intel Virtualization Technology (VT-x)11Intel Virtualization Technology for Directed I/O (VT-d)12Intel Trusted Execution Technology13AES New Instructions (AES-NI)14Intel 64 Architecture15Intel Anti-Theft Technology (Intel AT)16Intel My Wi-Fi Technology174G WiMAX Wireless Technology18Idle States19Enhanced Intel SpeedStep Technology20Thermal Monitoring Technologies21Intel Fast Memory Access22Intel Flex Memory Access23Execute Disable Bit24Intel VT-x with Extended Page Tables (EPT)The Intel Core i5-2520M 2.50 GHz Processor is equipped with 2 cores and 4 threads and can be installed in the PGA988 socket. It delivers an improved automatic performance, thanks to its Intel Turbo Boost 2.0 technology. This gives system builders the freedom to set their computers the way they want by overclocking the processor's original speed of 2.50 GHz up to 3.20 GHz. The Intel Core i5-2520M Processor is built on the 32 nm process technology. It has Intel HD Graphics 3000 technology integrated into it. The processor features Intel Clear Video HD technology to handle high-definition playback with ease. Furthermore, the processor is equipped with advanced technologies such as Intel vPro technology, Intel Hyper-Threading technology, Intel Virtualization technology and more.Intel Quick Sync Video delivers fast conversion of video for portable media players, online sharing and video editing and authoring.Intel InTru 3D technology provides stereoscopic 3D Blu-ray playback in full 1080p resolution over HDMI 1.4 and premium audio.Intel Wireless Display technology enables wireless streaming of movies, photos, websites and more from an Ultrabook or a PC to an HDTV.The Intel Flexible Display Interface is an innovative path for two independently controlled channels of integrated graphics to be displayed.Intel Clear Video HD technology delivers high-definition quality playback that provides you a unique experience to watch movies and play games.Intel Turbo Boost technology dynamically increases the processor's frequency as needed, by utilizing thermal and power headroom. This allows the processor to run faster and makes it more energy efficient.Intel vPro technology is a set of security and manageability capabilities built into the processor aimed at addressing four critical areas of IT security: 1) Threat management, including protection from rootkits, viruses and malware 2) Identity and website access point protection 3) Confidential, personal and business data protection 4) Remote and local monitoring, remediation and repair of PCs and workstations.Intel Hyper-Threading technology delivers two processing threads per physical core. Highly-threaded applications can perform more tasks in parallel, thus completing tasks sooner.Intel Virtualization technology allows a single hardware platform to function as multiple virtual platforms. It limits downtime and maintains productivity by isolating computing activities into separate partitions, thus offering improved manageability.Intel Virtualization technology for Directed I/O (VT-d) continues from the existing support for IA-32 (VT-x) and Itanium processor (VT-i) virtualization, adding new support for I/O device virtualization. Intel VT-d can help improve security and reliability of systems as well as performance of I/O devices in virtualized environments.Intel Trusted Execution technology for safer computing is a versatile set of hardware extensions to Intel processors and chipsets that enhance the digital office platform with security capabilities such as measured launch and protected execution. It provides an environment where applications can run within their own space, protected from all the other software on the system.Advanced Encryption Standard New Instructions is a set of instructions that enables fast and secure data encryption and decryption. AES-NI is valuable for a wide range of cryptographic applications, such as applications that perform bulk encryption/decryption, authentication, random number generation and authenticated encryption.Intel 64 architecture delivers 64-bit computing on server, workstation, desktop and mobile platforms when combined with supporting software. It improves performance by allowing systems to address more than 4GB of both virtual and physical memory.Intel Anti-Theft technology enables safety and security of your laptop in the event of loss or theft. Intel AT requires a service subscription from an Intel AT-enabled service provider.Intel My Wi-Fi technology enables wireless connection of an Ultrabook or a laptop to Wi-Fi enabled devices such as printers, stereos and more.4G WiMAX Wireless technology provides broadband Internet access at speeds up to four times faster than 3G.Idle States (C-states) are used to save power when the processor is idle. C0, the operational state, indicates that the CPU is performing useful tasks. C1 is the first idle state, C2 the second and so on, where more power-saving actions are taken for numerically higher C-states.Enhanced Intel SpeedStep technology is an advanced means of enabling high performance while meeting the power conservation needs of mobile systems. Conventional Intel SpeedStep technology switches both voltage and frequency in tandem between high and low levels in response to processor load. Enhanced Intel SpeedStep technology builds upon that architecture using design strategies such as separation between voltage and frequency changes and clock partitioning and recovery.Thermal Monitoring technologies protect the processor package and the system from thermal failure through several thermal management features. An on-die Digital Thermal Sensor (DTS) detects the core's temperature. In addition, these thermal management features reduce the package power consumption and thereby temperature when required, in order to remain within normal operating limits.Intel Fast Memory Access is an updated Graphics Memory Controller Hub (GMCH) backbone architecture. It improves system performance by optimizing the use of available memory bandwidth and reducing the latency of memory accesses.Intel Flex Memory Access facilitates easier upgrades by allowing different memory sizes to be populated and remain in dual-channel mode.Execute Disable Bit is a hardware-based security feature that can reduce exposure to viruses and malicious code attacks. It also prevents harmful software from executing and propagating on the server or the network.Intel VT-x with Extended Page Tables, also known as Second Level Address Translation (SLAT), provides acceleration for memory-intensive virtualized applications. Extended Page Tables in Intel Virtualization technology platforms reduce the memory and power overhead costs and increase battery life through hardware optimization of page table management.Intel i5-2520M SpecsEssentialsNo. of Cores2No. of Threads2Clock Speed2.50 GHzMax Turbo Frequency3.20 GHzIntel Smart Cache3 MBBus/Core Ratio25DMI5 GT/sInstruction Set64-bitExtensions: AVXEmbedded Options AvailableNoMax TDP35 WMemoryMax Memory Size16GB (dependent on memory type)Memory TypesDDR3-1066/1333No. of Memory Channels2Max Memory Bandwidth21.3 GB/sECC Memory SupportedNoGraphicsProcessor GraphicsIntel HD Graphics 3000Graphics Base Frequency650 MHzGraphics Max Dynamic Frequency1.3 GHzGraphics OutputDP/DP/HDMI/SDVO/CRTMacrovision License RequiredNoNo. of Displays Supported2Expansion OptionsPCI Express Revision2.0PCI Express Configurations1 x16, 2 x8, 1 x8 + 2 x4PCI Express Lanes16Package SpecificationsMax CPU Configuration1TUNCTION212°F (100°C)Graphics & IMC Lithography32 nmSockets SupportedPPGA988FeaturesAdditional TechnologiesIntel Quick Sync Video Intel InTru 3D technology Intel Wireless Display Intel Flexible Display Interface (Intel FDI) Intel Clear Video HD technology Dual Display Capable Intel Turbo Boost 2.0 technology Intel vPro technology Intel Hyper-Threading technology Intel Virtualization technology (VT-x) Intel Virtualization technology for Directed I/O (VT-d) Intel Trusted Execution technology AES New Instructions Intel 64 Intel Anti-Theft technology Intel My Wi-Fi technology 4G WiMAX Wireless technology Idle States Enhanced Intel SpeedStep technology Thermal Monitoring technologies Intel Fast Memory Access Intel Flex Memory Access Execute Disable Bit Intel VT-x with Extended Page Tables (EPT)

intel core i5-2520m review, is intel core i5-8250u 1.6 ghz good

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