Msi x99a godlike gaming carbon manual

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Категория устройства: PCsDevice Group: Материнская доска Бренд: MSI Модель: X99A GODLIKE GAMING TitlePagesFormatSizeAction Руководство 120 PDF 8.38MB Любой вопрос об устройстве? Chipset TypeIntel X99 ExpressCompatible ProcessorsCore i7 Extreme EditionProcessor SocketLGA2011-v3 Процессоры SocketMax (ty1ManufacturerMSI Computer Corp.Expansion Slots1 x CPU8 x DIMM 288-pin5 x PCIe 3.0 x16 (двойной режим x16; тройной: режим x16; квадроцикл: режим x16; семь карт: x16, x8, x8, x8, x8, x8, режим x8; единая карта: режим x16)Storage InterfacesATA-600 -конектеры: 6 x 7pin SATA, 1 x M.2, 1 x порт SATA Express - RAID 0 / RAID 1 / RAID 10 / RAID 5SATA-600 -connectors: 4 x 7pin Serial ATA - 4 устройстваIntersnal Interfaces4 x USB 3.3.41 - header4 x USB 2.0 - header1 x audio - headerPower Connectors4-pin ATX12V разъем, 24-контактный основной разъем питания, 8-контактный разъем ATX12V, функцииIntel Smart Response TechnologyMax Поддерживается qty1Installed qty0Max Поддерживаемый йту1Data Ссылка ProtocolBluetooth 3.0 HS, Bluetooth 4.0, Bluetooth 4.0 LE , Ethernet, Fast Ethernet, Gigabit Ethernet, IEEE 802.11a, IEEE 802.11ac, IEEE 802.11b, IEEE 802.11nNetwork Controller2 x Killer Gaming E2400 / 1535Network2 x Gigabit Ethernet, 802.11a/b/g/n/ac, BluetoothProduct TypemotherboardIncluded АксессуарыDo-Not-Disturb вешалка для дверей, I/O задняя пластина, кабельные этикетки, значок, 2, 5TypeLAN (Gigabit Ethernet), PS/2 клавиатура / мышь, TOSLINK, USB 2.0, USB 3.1, USB-C, аудио линии в, аудио линия из, аудио линии из (центр / сабвуфер), аудио линии из (задний), аудио линии из / наушники, microphoneConnector Typemini-Джек, телефон стерео 6.3 mmAudio CodecRealtek ALC1150Compliant StandardsHigh Definition AudioMax Поддерживаемый размер128 GBFeaturesIntel Экстремальные профили памяти (XMP), четырехканальная архитектура памятиВидео OutputnoneCompliant StandardsHigh Определение AudioTypesound cardAudio CodecRealtek ALC1150AudioHigh Definition Audio (8-канал)Network InterfacesBluetooth, 2 x Gigabit Ethernet, 802.11a/b/g/n контроллер работы2 x Убийца Игровые E2400 / 1535Bus Часы2133 МГц , 2800 МГц (О.С.), 2666 МГц (О.С.), 2600 МГц (О.С.), 2400 МГц (О.С.), 2200 МГц (О.С.), 3000 МГц (О.С.), 3400 МГц (О.С.), 2750 МГц (О.С.), 3110 МГц (О.С.), 3333 МГц (О.С.) Зарегистрированные или BufferedRegistered, unbufferedFeaturesIntel Экстремальные профили памяти (XMP), четырехканаленовая архитектура памятиMax Size128 GBTechnologyDDR4Поддерживаемая целостность оперативной памяти CheckNon-ECCBrandMSIProduct LineMSIModelX99A GODLIKE GAMINGPack количество1CompatibilityPCForm Factorextended ATXProcessor SocketLGA2011-v3 SocketCompatible ProcessorsCore i7 Extreme EditionChipset TypeIntel X99 ExpressSupported RAM TechnologyDDR4 SDRAMSported RAM Speed2133 МГц, 2200 МГц (О.С.), 2400 МГц (О.С.), 2600 МГц (О.С.), 2666 МГц (О.С.), 2750 МГц (О.С.), 2800 МГц (О.С.), 3000 МГц (О.С.), 3110 МГц (О.С.), 3333 MHz (О.С.), 3400 MHz (О.С.) Supported ram Integrity Checknon-ECCSS-supported RAM (registered or or or unbufferedRAM Слотьй8 DIMM slotsPower Connectors24-pin основной разъем питания, 4-контактный разъем ATX12V, 8-контактный разъем ATX12VBIOS FeaturesDMI технологии, MSI ClickBIOS 4, MSI DrMOSHardware FeaturesAMD 4-путь CrossFireX поддержка технологии, чистая кнопка CMOS, отладка светодиод, DigitALL power, ESD protection, Gold Plated Аудио оборудование, Привет-с CAP, Killer DoubleShot-X3 PRO, MSI Audio Boost 3 RPO, MSI Gaming Device Port, MSI Guard-Pro, MSI MSI OC PCB, MSI Steel Armor, MSI USB Audio Power, NVIDIA 3-й SLI Technology Support, Nahimic Audio Enhacer, OC Genie 4, бортовая кнопка, супер зарядное устройство, Super Ferrite Choke (SFC), Turbo M. 2, Turbo U.2, V-Check Points, сверхтяжная защитаStorageM.2 розетка, порт SATA Express, Серийный АТА-600, Серийный АТА-600 (RAID)Storage Ports6 x SATA-600 (RAID) , 4 x SATA-600 , 1 x SATA Экспресс порт, 1 x M.2RAID ОсобенностиIntel Smart Response TechnologyUSB 3.0 / FireWireUSB 3.1, USB-CUSB / FireWire Порты Конфигурация (Активный)5 x USB 3.1 й 1 x USB-C 2 x USB 2.0Total No 1, 5, 8Slot Комментарии x16 режим; тройной: режим x16; квадроцикл: режим x16; семь карт: x16, x8, x8, x8, x8, x8; единая карта: x16 modeTypeCPU, DIMM 288-pin, PCIe 3.0 x16Width12 inDepth10.7 inSoftware IncludedKiller Network Manager, MSI Command Center, MSI Gaming App, RAMdiskInterfaceSerial ATA-600Connector(s)4 x 7pin Серийный ATA, 6 x 7pin Serial ATA, 1 x M.2, 1 x SATA Экспресс портПоддерживаемые устройства сти4RAID (уровень)RAID 0 / RAID 1 / RAID 10 / RAID 5TypeUSB 2.0, USB 3.1, аудиоКоннектор Typeheaderty1, 4Hardware FeaturesV-Check Points, NVIDIA 3-путь SLI Технологическая поддержка, Hi-c Super Ferrite Choke (SFC), NVIDIA 4-й SLI Технологическая поддержка, Бортовая кнопка, AMD 4-путь CrossFireX поддержка технологии, ESD защиты, DigitALL державы, MSI военного класса IV, OC Genie 4, MSI OC PCB, Gold Plated Аудио оборудование, Чистая кнопка CMOS, сверхэтяземая защита, MSI Игровое устройство Порт, MSI Guard-Pro , MSI USB Аудио мощность, MSI Мистический свет , Убийца DoubleShot-X3 PRO, Turbo U.2, MSI Аудио Boost 3 RPO, Nahimic Аудио Enhacer, MSI Сталь ArmorBIOS FeaturesDMI поддержки, MSI DrMOS, MSI ClickBIOS 4ManufacturerMSI Computer Corp. Лучшие обзоры Последние Обзоры MSI X99A Скачать руководство пользователя MSI X99A GODLIKE GAMING CARBON в формате PDF: x99a поддерживает новый Intel® Core™ Core процессоры i7 Extreme Edition в LGA 2011-3 разъем поддерживает четыерехэдерный канал DDR4-3400 (ОС) Поддержка памяти Intel® Turbo Boost Max Technology 3.0 Mystic Light: Стиль вашего любимого цвета отныне 2X Faster USB 3.1: Доставка скорости до 10Gb/s, USB 3.1 предлагает производительность в два раза быстрее, чем обычное соединение USB 3.0. DoubleShot-X3 PRO: Используйте Killer DoubleShot-X3 Pro, чтобы объединить Killer WIFI с двумя Killer LANs для лучшего опыта онлайн-игр Turbo U.2 SSD Решение: Benefits from a brand new storage solution to 2.4GB/s read Turbo M.2 : Next-generation M.2 Gen3 x4 performance at transmission speeds of up to 32GB/s SATA Express - USB 3.1 - SATA 6Gb/s Multi-GPU: 4-Way NVIDIA SLI and AMD CrossFire Support OC Engine: Achieve higher acceleration results with more flexible BCLK adjustments to 100/125/167MHz. Audio Boost 3 PRO: Hear the sound from the sky with a 6.3mm audio socket and ESS Audio DAC USB Audio Power: Serve a stable 5V power and better signal transmission via USB XSplitcaster Game: Show you the skills in the world with a 1 year premium license for this popular streaming Guard-Pro Software: Improved Protection and Energy Efficiency OC Genie 4: Overclock in 1 Second Gaming App: Increase Frame Frequency Tap SEO 4: Easy to fix your Nahimic Audio Enhacer system: Enjoy a sound that pushes the boundaries of reality. Game Port: Optimized with triple gold coating for high speed video game processor - Supports the new Intel processor® Core™ i7 Extreme Edition processors for LGA 2011-3 Socket - Support Intel® Turbo Boost Max Technology 3.0 - Please refer to processor support for compatible processor; The above description is only for reference. 1 2 3 4 5 6 7 8 9 10 11 12 Table Contents 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 33 33 3 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 56 58 59 59 60 61 62 63 6364 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 94 95 86 88 88 88 89 90 91 92 93 94 94 95 88 88 88 88 89 90 91 92 93 94 94 95 85 85 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 Carbon Fiber Polymer is widely used in the world of motor racing and aerospace technology where light strength and strength is most important. The Carbon Motherboard Black Scheme combines a great look with sophistication that is sure to make your computer stand out in looks and performance. In traditional memory design, memory signals are often distorted by electromagnetic signals from other components, making the system slower or becoming unstable. MSI introduces DDR4 Boost technology with optimized traces and a fully insulated memory scheme. This design ensures that memory signals remain clean for optimal performance and stability. Steel Armor technology is now also available for the DDR4 Boost, offering better EMI protection and even better signal strength, for optimal memory performance. Customize and customize your own color scheme with Mystic Light. Make your look build on fire or cool like ice. You're in control. You can choose any of the colors from the palette to match the design of your systems. Tired of always the same color? Just change it to another one using the easy-to-use Mystic Light APP available on PC, phone and tablet, and Your computer look and feel brand new! The Effects (click to change) MSI® X99 GODLIKE GAMING motherboard is designed to provide gamers with best-in-class features and technologies. To cool, protect and highlight these features, heavy washed armor armor Use. Stunning Views, backed by MSI Dragon, the X99A GODLIKE GAMING motherboard is an engineering masterpiece with game perfection in mind. DRAGON COVER Dragon cover doesn't just look cool with its GODLIKE branding, it also protects I/O devices from electro magnetic interference by providing clean signals. EXTENDED DRAGON ARMOR This amazing protective shield helps keep the beep clean while preventing interference from other components. Improved HEATPIPES Designed to withstand anything, the heats and drain found on this motherboard really represent style and performance. DRAGON HEATSINK Heavy covered armor ensures that your system stays cool even during the longest gaming sessions or extreme acceleration. Killer™ DoubleShot-X3 Pro allows 2x Killer™ Ethernet connectors and a Wi-Fi Killer adapter™ work together for the ultimate high-speed attack. The Killer network manager decides which apps work on which connection to optimize game traffic. This will give you maximum bandwidth as high as 2.867 Gbps. Killer™ Wireless AC 1535 with ExtremeRange™ Technology provides industry-leading speed, intelligence and control for PCs. Killer's Lag and Delay ReductionTM Technologies combined with Killer's ExtremeRange™ Technology revolutionizes user experience, driving better bandwidth, lower distances, and more WiFi ranges. Play your game, stream your game, and enjoy HD video - all at the same time and continuously. Benefits of Lag and Reduced Delay™ ExtremeRange™ Technology Cutting Edge 11AC Performance Bluetooth 4.1 Advanced Flow Detection™ Visual Bandwidth Control™ FASTER LOWER LATENCY Mbps Developed with Gaming DNA, Killer™ LAN optimized for championship level online and LAN eSports. This GAMING motherboard is equipped with 2 ™ gaming network ports. Killer E2400's Advanced Stream Detect smart network platform is designed to maximize network performance for online gaming and high-quality streaming media. Killer™ LAN automatically detects and speeds up game traffic, outpacing other network traffic for smoother, more playful, in-game performance and competitive advantage. Built for an excellent online gaming experience with optimized traffic prioritization and low latency, Killer™ Network Manager with Advanced Stream Detect™ automatically categorizes and prioritizes delayed applications for online gaming. Killer Network Manager automatically prioritizes games over other apps, allowing you to change app traffic priority Lets you customize bandwidth for each application with Audio Boost 3 Pro, powered by Nahimic Sound Technology, we provide the highest sound quality through high-quality audio components. So you can enjoy crystal clear sound and music through 8-channel HD Audio or high high Headphones. With a gold 6.35mm audio connector you get the best signal output with less chance of distortion for a high quality headset. Offering immersive 7.1 high definition virtual sound using exclusive stereo equipment. With gold audio connectors, you get the best signal output with less chance of distortion. The Audio Boost 3 Pro is fueled by a high quality EMI-shield HD audio processor, making sure you enjoy the purest sound quality. Audio Boost 3 Pro acts as a special sound card, physically isolating the audio circuitry to give you a clearer beep. Providing high precision crystal clear sound with exceptional acoustics and realism. Built-in dual headphone amps reward your high-quality headphones with studio-level sound quality up to 600 comes from your gaming PC. The ESS ES9018K2M DAC studio recreates optimal natural analog sound with ultra-low distortion to provide the perfect, realistic display of sound. The headphone amp switch is easy to switch between the front or back of the dedicated headphones out. Convenient use of audio output front panel while maintaining high quality reinforced sound. Nahimic sound technology has been approved for its quality and accuracy in projects carried out by the military and aviation industry. It offers an immersive 7.1 high definition virtual sound using exclusive stereo equipment. Nahimic takes your gaming experience to the next level by offering you highly sought-after gaming benefits: Most motherboards won't be able to deliver a strong 5V power signal to all USB ports at the same time, which greatly affects the quality of the audio output. Only THE MSI USB Audio Power continuously provides a stable 5V in USB ports, making sure you can continue to enjoy the crystal clear sound standard you'd expect. MSI® USB Audio Power (5V) Traditional Solutions (4V) Improves USB Audio Audio Quality Stable 5V Power 5V - Best Signal Transmission Via USB OC Genie is the world's first built-in technology to disperse equipment on motherboards. With this one second of the acceleration option we give you even more performance. Just press the button and your computer gets another adrenaline shot. Delivery up to 20% free extra performance for processor and memory. PERFORMANCE BOOST MODES (Features can vary depending on your platform and the model Transfer of your favorite games, music and movies via USB has never been faster. USB 3.1 Gen2 provides lightning-fast transmission speeds of up to 10 Gbps! Benefits 2X faster than USB 3.1 Gen1 20X faster than USB 2.0 Up to 10Gbps data bandwidth Boost transfer speed for your PC and Type-C peripherals with reversible design all the benefits of USB 3.1 Gen2 performance combined with the convenience of a USB Type-C connector. This reversible connector makes it easy to connect USB devices. With MSI Super Charger you can deliver more energy energy THE usual USB DEVICES for your smartphone, tablet, USB game controller or portable console. You can quickly charge these devices when you're not playing on your computer, eliminating the need for sockets. USB 3.1 Gen1 Signal Integrity suffers with longer cables. Special USB 3.1 Gen1 Rediivers, connected to usb 3.1 Gen1 available ports on MSI motherboards, allow longer USB 3.1 Gen1 cables, especially in a larger chassis. With a cleverly placed USB 3.1 Gen1 front pin heading to the MSI motherboard, you can connect up to 4 USB 3.1 Gen1 devices directly to the front of your PC chassis. This way you can easily enjoy the fast USB speed without using hard-to-reach USB ports at the back. The front USB 3.1 Gen1 ports on MSI's motherboards are protected by a set of protective ICs to prevent damage caused by Electrostatic Discharge (ESD) from connecting/disabling USB devices. SATA Express offers a high-speed storage solution via PCI-Express, providing greater bandwidth for the latest generation SSDs up to 10GB/s. Delivery speeds up to 32Gb/s using Gen3 x4, Turbo M.2 are more than 5 times faster than the usual SATA III connection! Enjoy a blazing fast download system and insanely fast download apps and games with MSI motherboards. The U.2 Host Card delivers up to 32GB/s of performance and supports 2.5-inch next-generation SSD systems with the U.2 connector. The redriver chip is added to increase the speed of data transmission. With a rich history of breaking world records inherited from the legendary dispersal of MSI motherboards, this motherboard has an OC running through its veins. Built from scratch to support heavy acceleration, from its OC PCB to military-grade components, you know this MSI motherboard is ready to push to the limit! This MSI motherboard has 50% more PCBs. This is for removing interference and delivering the most stable signals with improved efficiency, even in the most extreme acceleration conditions: increasing the number of layers of PCBs Increased moisture resistance Tight weave Fiberglass PCB Increased protection ESD DigitALL Power digitally manages and receives feedback through the DigitALL PWM controller. This allows you to determine voltage delivery and reduce energy consumption. With plenty of premium power phases to support heavy accelerations with very high voltage, you are confident that your system remains stable in the most extreme conditions. Pushed your crackdown effort too far? Don't worry, The Overcurrent Protection featured on this motherboard ensures that you don't damage it, so you can easily start again where you left off. OC Heat Design was designed to deliver the highest even in the most extreme conditions. It's optimized for low airflow, making it the perfect cooling to use with your water cooling unit. Premium materials Optimized for SuperPipe Metal Screws Extreme OC Socket Design ensures that you can fit any cooling solution. Using fewer components around the socket makes it easier to isolate the motherboard for use with LN2 and improve PCP tracking to ensure better efficiency and better OC results. Meet the Swiss army knife of the near-risers; OC Essentials is a set of tools that are needed to get the best performance out of your motherboard. These features increase stability, help in shooting out of trouble, allow you to keep the complete system under control and allow simple control. So you can keep your mind on the acceleration. Allowing a quick and easy reboot and power/powering down your system during acceleration. The buttons are positioned and light up, so you can easily find them in a dark environment. LED 2 Digit Debug is present for easy diagnosis. When working, it also displays the temperature of the processor package. Precisely control the tension during the acceleration. V-Check Points 2 supports up to 3 multimeters at a time for optimal voltage monitoring. Conveniently placed on the back of the motherboard, the Clear CMOS button makes it easy to reset bios when your acceleration attempts have failed. Saving you the hassle of opening your case and removing the jumper. With the flick of the switch you can change between different BIOS chips to test or recover when one bios falls. A lightweight LED next to the chip shows which BIOS is active. Get ready to enjoy the best gaming experience with MSI and SteelSeries! Enthusiast gaming gear brand SteelSeries has officially approved MSI GAMING motherboards like SteelSeries Certified (SSC). This certification is based on the performance and stability requirements of MSI GAMING motherboards and SteelSeries products. Your SteelSeries headset, mouse and other high-quality gaming gear work best on MSI GAMING's motherboards. Military Class 4 is the next step in high-quality components. Hi-c CAP, Super Ferrite Choke and Dark CAP will make sure your computer is more stable in extreme gaming environments. DrMOS is the next generation of Mosfet, which is used to deliver energy to the processor. MSI DrMOS does not spend much energy, remains cool and more energy efficient than other energy-intensive solutions. Because DrMOS is a 3 in 1 chip, it provides much more energy with fewer components needed. This solution gives you the opportunity to break world records. Hi-c CAP is a very small but super-efficient capacitor. In addition to providing enough space around the CPU socket to install large coolers, it also 93% energy efficiency. Thanks to Hi-c CAP, MSI mainboards are the most energy efficient on the market. Super Ferrite Choke uses the Ferrite core, which is super-permeable. This allows Super Ferrite Choke to operate at a lower temperature of 35 degrees Celsius, have 30% higher current capacity, 20% energy efficiency and better power stability. With their aluminum core design, Dark CAP has been a staple of high-end design mainboard designs and provides a lower equivalent of the Resistance Series (ESR) as well as its over-10-year lifespan. Reducing moisture absorption helps prevent conductive anodical filament. Untreated PCBs can have a 10x higher lower expansion lead in MSI motherboards have been tested militarily to ensure stable operation in the harshest conditions. Carefully selected materials, multiple layers of PCD and screening provide the best chain protection for our GAMING motherboards. Each port is protected from the dangers of Electro Static Discharge. All MSI boards comply with strict U.S. FCC rules and reduce exposure to electromagnetic interference. This motherboard supports SLI/CrossFire. The optimal placement of the PCI-Express slot provides better installation and airflow. So you can enjoy the best graphics at the highest screen jumping frame rate when you launch NVIDIA® SLI™ or AMD CrossFire™ installation. Worried about damaging the PCI-Express slot or graphics card because of the weight? Steel Armor has more solder points on the PCB for greater strength and protects PCI-Express signals from electromagnetic interference for stuttering free gaming experience and higher GPU acceleration. OthersNo strengthening MSI® steel ArmorReinforced, heavy solder connection MSI Tap BIOS 4 is the latest UEFI BIOS with optimization for Windows 8.1 / Windows 10. Not only does it also react faster, runs more smoothly and has better mouse support. And it all comes with many cool features. Click on the right button to visit our special BIOS page and find out more. Click here to go to UEFI BIOS PAGE for more information to outperform your competitors with MSI® GAMING APP, which allows you to simultaneously monitor both accelerations of your graphics card. Simply choose your preferred mode at the touch of a button: MSI works closely with CPUID to develop this special edition of the processor-me featuring the famous MSI GAMING dragon. Use the processor to gather key information about your system's core devices such as processor speed, memory speed and timing, motherboard bios versions and more. Download the processor-i MSI GAMING Edition HERE Get Unlimited RAMDisk free (worth $35) with MSI GAMING motherboards. RAMDisk allows you to create a virtual drive from the memory system, allowing speeds up to 25 times faster than the modern SSD. You can download full games, speed up your browser or file page by greatly improving the performance of the system! You even extend the lifespan of the SSD using RAMDisk as it reduces unnecessary and recording operations on your SSD. Accelerating Performance Acceleration System Game Acceleration, Apps and Browser Increase Life SSD MSI Game Device Port Optimized to Deliver the Best Best For high-end gaming mice to make full use of their speed. This results in a much faster and smoother mouse reaction in games. The gaming benefits of More Responsive Smoother Gameplay Faster Reaction Technical Benefits 3x more gold than conventional 10x connectors longer life when connecting/connecting prevents oxidation Providing additional contacts (2036 in total) opens the door to a better acceleration of Intel® Extreme processors and DDR4 memory. The Turbo outlet allows for additional tweaking of DDR4 memory and voltage rings, resulting in a record DDR4 memory break-up performance, reduced latencies and increased stability during acceleration. What's in the box? Check it out for yourself! Aside from the abundance of necessary cables and connectors, you'll also get cool Do-Not-Disturb door hangers, a slick GAMING case icon and a stylish all-black GAMING I/O shield. FRONT SIDE OF I/O PANEL I/O Panel Ports Label Dark coating BACK SIDE OF I/O PANEL Force Absorbing Layer (NEW) Aluminium Interference Shielding Steel Shielding Don't forget to take full advantage of all gaming weapons by connecting your devices to optimized ports. PS/2 Game Device Port USB 3.1 Gen2 Type-A Port Killer™ LAN Ports Killer™ LAN Ports Killer™ Wi-Fi Connectors HD Audio USB Connectors USB Gaming Device Port Clear CMOS USB Button Gen2 Type-C Port USB 3.1 Gen1 Ports USB 3.1 Gen1 Ports 6.3mm Hi-Fi Audio Jack Optical S/PDIF Out All images and descriptions only for illustrative purposes. Product specification, function and appearance can vary depending on the different GPU. For detailed specifications, please consult the product specification page. Page.