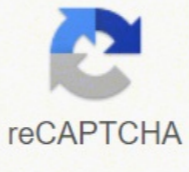




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Next

Asus m2a-vm specifications

>> data-hide=>> ASUS M2A-VM motherboard Socket AM2 micro ATX: The official marketing text of ASUS M2A-VM motherboard Socket AM2 micro ATX as supplied by the manufacturer Supports AMD Socket AM2 Athlon 64 X2 / Athlon 64 FX / Athlon 64 / Sempron The motherboard supports AMD socket AM2 single-core Athlon 64/ Sempron and dual-core Athlon 64 X2/ Athlon 64 FX processors with 2MB / 1MB / 512KB L2 cache, which is based on 64-bit architecture. It features 2000 / 1600 MT/s HyperTransport Bus, dual-channel un-buffered DDR2 800 memory support and AMD Cool 'n' Quiet! Technology. Dual-Core CPU Enjoy the extraordinary CPU power from the latest dual-core CPU. The advanced processing technology contains two physical CPU cores with individually dedicated L2 cache to satisfy the rising demand for more powerful processing capability. 64-bit CPU support 64-bit computing, the next generation technology to replace the current 32-bit architecture, delivers advanced system performance, faster memory access and increased productivity. This motherboard provides excellent compatibility and flexibility by supporting either 64-bit or 32-bit architecture. AMD 690G The AMD 690G Northbridge is the latest AMD chipset designed to support 800/1000MHz HT(HyperTransport) interface speeds, Microsoft® DirectX 9.0, Pixel Shader V2.0 and dual VGA outputs including DVI interface. It features the integrated ATI Radeon X1250-based graphics. DVI Interface DVI (Digital Visual Interface) provides high visual quality of digital display devices such as LCD monitor. The interface of this motherboard supports dual VGA output both DVI-D and RGB and is HDCP compliant allowing playback of HD DVD, Blu-ray Disc. SurroundView™ The Surroundview function provides four independent monitor display with an additional ATI VGA card for multi-tasking. Dual-Channel DDR2 800 DDR2 is the next generation memory technology to replace the current DDR. With the highest speed up to 800MHz, DDR2 memory provides great performance for 3D graphics and other memory demanding applications. PCI Express Architecture PCI Express is the latest I/O interconnect technology that will replace the existing PCI. With a bus bandwidth 4 times higher than that of AGP 8X interface, PCI Express x16 bus performs much better than AGP 8X in applications such as 3D gaming. PCI Express x1 also outperforms PCI interface with its exceptional high bandwidth. Serial ATA 3Gb/s The motherboard supports the next-generation hard drives based on the Serial ATA (SATA) 3Gb/s storage specification, delivering enhanced scalability and doubling the bus bandwidth for high-speed data retrieval and saves. Gigabit LAN The on-board LAN controller is a highly integrated GbLAN controller. It is enhanced with an ACPI management function to provide efficient power management for advanced operating systems. High Definition Audio Enjoy high-quality sound system on your PCI! The onboard 6-channel HD audio (High Definition Audio, previously codenamed Azalia) CODEC enables high-quality 192KHz/24-bit audio output, jack-sensing feature, retasking functions technology that automatically detects and identifies what types of peripherals are plugged into the audio I/O jacks and notifies users of inappropriate connection, meaning there will be no more confusion of Line-in, Line-out and Mic jacks. ASUS Q-Fan ASUS Q-Fan technology intelligently adjusts CPU fan speeds according to system loading to ensure quiet, cool and efficient operation. Max. 10 USB 2.0 ports USB 2.0 is the latest connectivity standard for next generation components and peripherals. Backwards compatible with current USB 1.1 peripherals, USB 2.0 delivers transfer speeds up to 40 times faster at 480Mbps, for easy connectivity and ultra-fast data transfers. ASUS CrashFree BIOS3 The ASUS CrashFree BIOS 3 allows users to restore corrupted BIOS data from a USB flash disk containing the BIOS file. This utility saves users the cost and hassle of buying a replacement BIOS chip. ASUS EZ Flash2 With ASUS EZ Flash, you can update BIOS before entering operating system. No more DOS-based flash utility and bootable diskette required. ASUS O.C. Profile The motherboard features the ASUS O.C. Profile that allows users to conveniently store or load multiple BIOS settings. The BIOS settings can be stored in the CMOS or a separate file, giving users freedom to share and distribute their favorite overclocking settings. ASUS Music Alarm Wake up to the music of your choice instead of the irritating sound of an alarm clock. The ASUS Music Alarm gives you a personal wake-up call with your favorite CD music when system is off. C.P.R.(CPU Parameter Recall) When the system hangs due to overclocking failure, there is no need to open the case to clear CMOS data. Just simply restart the system, the BIOS would show the previous setting and then users can amend the CPU setting again. MyLogo2 Turn your favorite photos into 256-color boot logos to personalize your system. GreenASUS The motherboard and its packaging comply with the European Union's Restriction on the use of Hazardous Substances (RoHS). This is in line with the ASUS vision of creating environment-friendly and recyclable products and packaging to safeguard consumers' health while minimizing the impact on the environment. Long summary description ASUS M2A-VM motherboard Socket AM2 micro ATX: This is an auto-generated long summary of ASUS M2A-VM motherboard Socket AM2 micro ATX based on the first three specs of the first five spec groups. ASUS M2A-VM. Processor manufacturer: AMD. Processor socket: Socket AM2. Maximum internal memory: 8 GB. Maximum graphics adapter memory: 256 MB. Networking features: Gigabit Ethernet. Motherboard form factor: micro ATX, Audio output channels: 5.1 channels, Audio chip: Realtek ALC883 I would like to thank AMD for supplying us with the tested motherboard. AMD/ATI recently launched their first new chipset, called the AMD 690 which is based on the RS690G/V. ASUS being one of the biggest motherboard manufacturers in the world was one of the premier partners to develop a board for this new platform. The M2A-VM is a value oriented MicroATX motherboard that supports all the new features like integrated Radeon X1250 graphics and VGA/DVI/HDMI output. HDMI is implemented via an add-on card that goes into the PCI-E x16 slot and is sold only with the ASUS M2A-VM HDMI, we did not receive the HDMI card, so the tested board is the ASUS M2A-VM. For more information about the chipset, read our AMD 690 Preview. ASUS M2A-VMProcessorAll AMD Athlon64 AM2 processors, including Athlon FX SeriesHT Speed1000 MHzChipsetAMD RS690G + AMD SB600Memory4x 240 Pin DDR2. Dual Channel DDR533/667/800, up to 8 GBBIOSAMI BiosSlots1x PCI-E x16 1x PCI-E x1 2x PCIHDD Connectivity1x ATA-133 4xSATA-IINetworking1x 10/100/1000 Mbps - Realtek RTL8111B via PCI-EPorts12x USB 2.0 (4 on Back Panel)Audio7.1+2 Realtek ALC883 HD AudioForm FactorMicroATX 244 x 244mm CPU SupportAMD® Socket AM2 Athlon64 / Athlon64 FX / Athlon64 X2 / SempronAMD Cool 'n' Quiet™ TechnologyAMD64 architecture enables simultaneous 32-bit and 64-bit computingAMD Live!™ ReadyChipsetFront Side BusMemoryDual channel memory architecture4 x 240-pin DIMM, support max. 8GB DDR2 800/667/533 ECC and Non-ECC.un-buffered memoryVGAIntegrated ATI Radeon X1250-based graphicsMaximum shared memory of 256 MBSupports DVI-D with max. resolution 2560x1600 (@ 60Hz)(It may not display 1080p smoothly when playing HD DVD and Blu-ray Disc due to current version player limit)Supports RGB with max. resolution 2048 x 1536 (@85Hz)Dual VGA output support:RGB & DVINote: DVI-D can not be converted to output RGB Signal to CRT.Expansion Slots1 x PCI Express x161 x PCI Express x12 x PCIStorage1 x UltraDMA 133/1004 x Serial ATA 3Gb/s supporting RAID 0, RAID 1,RAID10LANPCIE Gb LANAudio ALC883 High Definition Audio 6-channel CODECSupports Jack-Sensing, Enumeration, and Jack-RetaskingSupports S/PDIF out interfaceOverclocking FeaturesSFS (Stepless Frequency Selection) from 200MHz to 400MHz at 1MHz incrementAdjustable CPU Voltage at 0.0125V incrementASUS C.P.R.(CPU Parameter Recall)USBSpecial FeaturesASUS MyLogo2ASUS CrashFreeBIOSASUS EZ Flash2ASUS Q-FanASUS O.C ProfileASUS Music AlarmBack PanelI/O Ports 1 x Parallel1 x PS/2 Mouse1 x PS/2 Keyboard1 x DVI1 x VGA1 x RJ454 x USB 2.0/1 16-channel Audio I/OInternal I/O Connectors3 x USB 2.0 connector supports additional 6 USB 2.0 portsHigh Definition Front panel audio connectorCOM port connectorCD audio-in connector1 x S/PDIF output connectorCPU / Chassis/ Power Fan connectorsChassis Intrusion connector24-pin EATX power connector4-pin ATX 12V Power connectorBIOS8Mb Flash ROM, Award BIOS, PnP, DMI2.0, WMM2.0, SMBIOS 2.3ManageabilityWDM 2.0, DMI 2.0, WOL by PME, WOR by PXE, WOR by PMESupportCD DriversASUS PC Probe IIASUS LiveUpdate UtilityAnti-virus software(OEM version)AccessoriesUser' s manual1 x Serial ATA cable1 x SATA power cable1 x UltraDMA 133/100/66 cable1 x FDD cable1 x I/O ShieldForm FactorATX Form Factor. 9.6" x 9.0" (24.5cm x 22.9cm) Page 2 02:48 by DayQu4n My MSI GF65 Thin 9SD Graphics card info not showing up. How do I fix it? (10) 02:36 by Nike 486DX Does the new Samsung A53 coming out in April support VoLTE/WiFi calling/texts? (26) 02:32 by Tigger What's your latest tech purchase? (11348) 02:30 by Dr. Dro AFOX GT 1030 problem... fake or not? (13) 02:27 by Dr. Dro I Have Three Identical NVMes. One is Significantly Slower Than the Others (16) 02:15 by AsRock Poor gaming performance, CPU not heating up? (12) 02:00 by MachineLearning TPU's Nostalgic Hardware Club (13496) 01:47 by ThrashZone Squabbling cores (55) 01:46 by phill I need help regarding the use of old Mining hardware for a PC build!! (7) 01:42 by eidairman1 Amd rx 580 error code 43 and is not displaying (8) Page 3 Click here for a 3000x2500 high-res shot of the board (3 MB download), the back is here. Even though the board is just MicroATX, there is enough space for most of the coolers on the market today (= those that follow the specifications). What worries me a bit is the line of tall black capacitors near the CPU socket, these could become a problem if you plan to install some unorthodox coolers. For example I had a problem with the Zalman CNPS8000's heatpipes sitting on the capacitors. Aside from the standard connectors like PS/2 mouse and keyboard, parallel port, 4x USB, Gigabit Ethernet and Audio you find an analog output connector and a DVI-D port. The DVI port is only DVI-Digital, it does not carry the analog signals for CRT use. If you look closely near the right of the DVI port, you can see that four holes are missing above and below the dash-like opening. The port is dual-link capable, which means you can use high-res displays like the Apple or Dell 30" TFTs. The motherboard's memory slots have been color coded for easy dual-channel configuration. To run your memory in dual-channel mode, you have to put the modules into slots of the same color. The power connectors are the in standard location, and are both easy to reach, even with CPU cooler installed. Four SATA 3.0 Gb/s ports are provided by the AMD RS690 chipset. A single IDE port is good for CD/DVD-ROM use. I find this is a good move on AMD side to keep support for one IDE port. Intel has scrapped them on their newer chipsets which forces motherboard manufacturers to put an additional IDE chip on the motherboard because most people nowadays are still using IDE optical drives. The headers are plain white, color-coding was probably left out to save some money. They follow the standard, the manual documents them as well. If this was an enthusiast motherboard, I'd complain about having only three fan connectors. For a value oriented motherboard this is OK though. Page 4 The slot configuration works good in my opinion. Even when installing a two-slot video card you still have access to once PCI port and one PCI-E x1 port. Let's hope the x1 port will be used more in the future. ASUS supplies an HDMI card with the motherboard that goes into the x16 PCI-E port. Unfortunately this means that you can't build a super slim low-profile Media PC with this motherboard - at least if you want to use the HDMI feature. As you can see from these mini-heatsinks without fans, both the Northbridge and the Southbridge have a really low heat output. The same Northbridge will actually be used in notebooks, which should tell you enough about its power requirements and heat output. ITE's 8716F monitoring chip is one of ITE's latest monitoring products. ITE is one of the leading companies on the monitoring chip market. The RTL811B Gigabit Ethernet chip is connected via PCI-Express and is a good solution for offering cost effective high-speed networking. Like many other ATI chipset based boards, the ASUS M2A-VM uses the ICS 951462 clockgenerator. The Realtek ALC883 is a respin of the ALC882 series which doesn't have DVD audio but slightly improved SNR performance. All capacitors on the board are from these two companies. It is good to see that ASUS doesn't use cheap low-quality capacitors on this budget board. Page 5 The first page in the BIOS give you some basic system info and lets you configure your harddisks. Most of the interesting BIOS settings can be found under "Advanced". While the Overclocking section of the BIOS does not have many options, it is still enough to get some basic overclocking done. The CPU frequency can be set between 200 MHz and 400 MHz. While 400 is a bit ambitious it is still nice to see a big range. CPU Voltage can be set between 0.8V and 1.55V which is a good range that covers most overclocking and undervolting that this board can be used for. If you need more juice you can boost the CPU voltage by another 0.1V via the CPU Voltage Control setting. DDR2 Voltage goes only up to 2.1V which may not be enough for the latest high-end memory modules. The ATI chipset voltage can be increased a bit too, up to 1.5V, more than enough, considering the passive heatsink. The CPU multiplier can be changed in integer steps, half-multipliers are not available. I'm not sure what the AMD Live! switch does, but Cool & Quiet is a very important feature for most PCs. Only the bare minimum of settings can be found on the chipset settings page. Not much here, you can change from "Auto" to "Manual" which lets you control the memory frequency. No timings can be set at all, truly disappointing. The UMA settings defines how much main memory is used a video memory. Depending on your applications there can be a benefit going to 256 MB. The suggested (and optimum) setting is 128 MB. Page 6 Advanced Power Management lets you control features like Wake on LAN or that the PC automatically powers up again after a power loss. On the boot settings pages you can control settings like where the system should boot from, if the POST screen or a graphical logo should be displayed and in which cases the system should display an error message. The monitoring page has the usual sensor readings and a VERY useful Q-Fan option. Q-Fan reduces the fan speed to eliminate the annoying high-speed fan noise when the system is not loaded. HPET (High Precision Event Timers) are a mechanism that is supposed to improve multimedia performance on Vista. It is not supported on XP. Microsoft has a page with more info on this topic "Guidelines For Providing Multimedia Timer Support". Not sure why this would be listed under "Advanced Power Management" though. Onboard devices and PnP has all the standard settings you would expect from any modern motherboard BIOS, nothing exciting to see here. ASUS Music Alarm sound like one of the most useless BIOS features, at least to me.

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