



**K8N Neo4 Series**  
MS-7125 (v1.X) ATX Mainboard



G52-M7125X4

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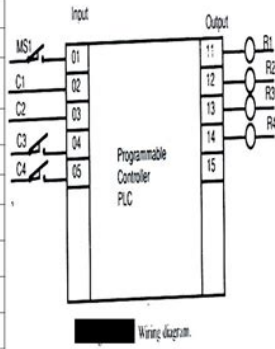


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**WIRING DIAGRAM**

ID	DESCRIPTION	STATE	EXPLANATION
MSI	Microswitch	1	Part arrives
R <sub>1</sub>	Output to bar-code reader	1	Scan the part
C <sub>1</sub>	Input from bar-code reader	1	Right part
R <sub>2</sub>	Output robot	1	Loading cycle
R <sub>3</sub>	Output robot	1	Unloading cycle
C <sub>2</sub>	Input from robot	1	Robot busy
R <sub>4</sub>	Output to stopper	1	Stopper up
C <sub>3</sub>	Input from machine	1	Machine busy
C <sub>4</sub>	Input from machine	1	Task complete



The success of unlocking AMD CPU may still vary according to the AMD CPU use. Company MSI Categories Motherboards Model MSI 770C45 Description AMI BIOS Version BIOS 1.5 Size BIOS 0.78Mb File Name 7599v15.zip Information Update CPU module. Support EUP. Improved memory compatibility. Company MSI Categories Motherboards Model MSI 770C45 Description AMI BIOS Version BIOS 1.6 Size BIOS 0.78Mb File Name 7599v16.zip Information Update CPU AGESA code. Add Energy Star LOGO. Improved memory compatibility. Company MSI Categories Motherboards Model MSI 770C45 Description AMI BIOS Version BIOS 1.7 Size BIOS 0.79Mb File Name 7599v17.zip Information Update CPU AGESA code. Update RAID ROM. Improved memory compatibility. Company MSI Categories Motherboards Model MSI 770C45 Description AMI BIOS Version BIOS 1.9 Size BIOS 0.79Mb File Name 7599v19.zip Information Support AMD 6 core CPU. Improved memory compatibility. Company MSI Categories Motherboards Model MSI 770C45 Description AMI BIOS Version BIOS 1.B Size BIOS 0.8Mb File Name 7599v1b.zip Information Update marketing name during POST. Company MSI Categories Motherboards Model MSI 770C45 Description AMI BIOS Version BIOS 1.C Size BIOS 0.82Mb File Name 7599v1c.zip Information Update CPU AGESA code. Company MSI Categories Motherboards Model MSI 770C45 Description AMI BIOS Version BIOS 1.D Size BIOS 0.82Mb File Name 7599v1d.zip Information Support low voltage memory. Update APS function. Company MSI Categories Motherboards Model MSI 770C45 Description AMI BIOS Version BIOS 1.E Size BIOS 0.82Mb File Name 7599v1e.zip Information Update CPU AGESA code. Improved SATA HDD compatibility. Company MSI Categories Motherboards Model MSI 770C45 Description AMI BIOS Version BIOS 1.F Size BIOS 0.82Mb File Name 7599v1f.zip Information Update CPU AGESA code. For K9VGMV MS7253 mainboard, please do not select the DMI option. Realtek High Definition Audio System Software. No accounts or sign ups necessary!<http://stroisvias.ru/userfiles/elo-1928l-manual.xml>

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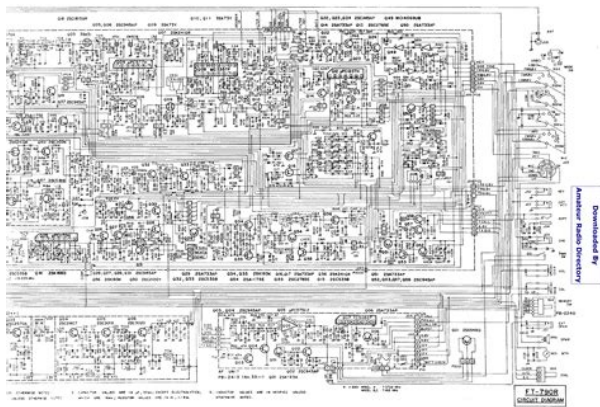
## REVISION HISTORY

Revision	Revision History	Date
V1.1	Add 770-C45 & APS LEDs	April 2009

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They prepared the document, using a document layout tool, rather than a text editor. Skimming through the manual, there is no mention of which slot is on which channel. Going by color scheme alone, you place a pair of matched sticks in samecolored slots, to get dual channel. On a quad core, sometimes unlinked is better, because it gives two independent memory banks for the four cores to play with. With a nominally two core processor, you can play with that, and see which setting you

like better. Since the fine user manual provided by MSI, doesn't include pictures of all the BIOS screens, I cannot tell you where to find that setting. So you have two ways to influence how the memory works. I have an older copy. There used to be three bandwidth indicators on the screen. L1, L2, and DIMM speed. Now that there are more processors out with L1, L2, L3, and DIMMs, there really need to be four bandwidth indicators on the screen. The lowest bandwidth of those, should be the one for the DIMMs. The DIMM indicator is the one you want to benchmark with. I'm installing a Phenom II X2 550 BE with two DDR1600 sticks for now. I currently have two Asus boards and they have an option in the BIOS to bootup from a keyboard key or mouse, does the MSI 770C45 have any option like that. Thanks for any help you can provide. Cheers, Ed The MSI manual seems to suggest DDR31333 is the highest nominal RAM speed and anything higher is an overclock. The AMD tested memory document seems unbelievably wimpy. You get a bit more detail from the MSI test document for your motherboard. They have run four sticks at DDR31333, but DDR31600 rates suggest a two stick limit. To reach those speeds, many modern boards need command rate 2T timing setting, to help reach that speed. The MSI downloadable user manual is one of the poorer ones I've seen. They prepared the document, using a document layout tool, rather than a text editor. Skimming through the manual, there is no mention of which slot is on which channel.

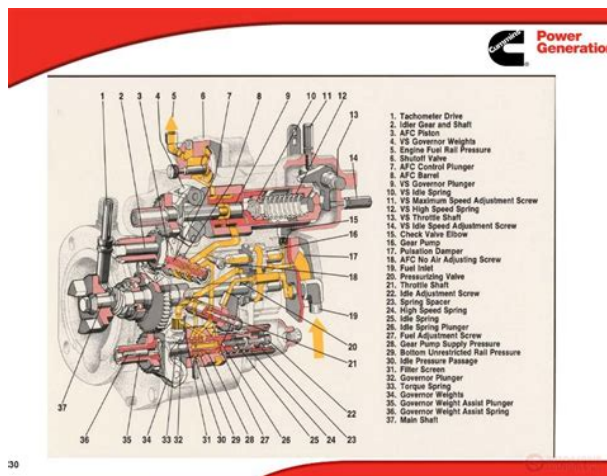


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dual channel configurations. Third fo all, memory bandwidth and motherboards on AMD platforms have nothing to do with eachother.

<http://istacover.com/images/canon-color-imagerunner-c3380-manual.pdf>



The motherboard specifies the top speed as the top speed available on the market at the time of printing the manual, but the motherboard itself has no influence over the memory speeds supported. The memory controller is in the CPU, and the CPU determines what types of memory are supported. To answer the OPs question on speeds There is no default speed for a specific CPU or godforbid a motherboard, stuff runs at the speeds of the RAM you brought. Fifth, memtest is explicitly stated not to be a benchmarking tool. The numbers you find in there are memtest binary load times and are highly innacurate, although they can give you a general idea of bandwidth. LP, Jure Post by Paul Post by Ed Hi, This is what I am getting, MSI 770C45 motherboard, 2x2GB DDR31600 ram, Phenom II CPU, Its been awhile since I built a PC almost 4 years so I have a few questions Im hoping someone can help me with, I downloaded the mobo manual but it doesnt tell you much. 1a The mobo manual says.In DualChannel mode, make sure that you install memory modules of the same type and density in different channel DIMM slots. Im installing a Phenom II X2 550 BE with two DDR1600 sticks for now. 3 I currently have two Asus boards and they have an option in the BIOS to bootup from a keyboard key or mouse, does the MSI 770C45 have any option like that. Thanks for any help you can provide. Cheers, Ed The MSI manual seems to suggest DDR31333 is the highest nominal RAM speed and anything higher is an overclock. The AMD tested memory document seems unbelievably wimpy. You get a bit more detail from the MSI test document for your motherboard. They have run four sticks at DDR31333, but DDR31600 rates suggest a two stick limit. To reach those speeds, many modern boards need command rate 2T timing setting, to help reach that speed. The MSI downloadable user manual is one of the poorer ones Ive seen. They prepared the document, using a document layout tool, rather than a text editor.

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On Asus, this is the other way around there to use dual channel, you have to put both chips in the same color slots leading to a lot of confusion and incorrectly assembled computers in computer stores. As far as I remember though, the motherboard comes with a booklet that has pictures of all dual channel configurations. Third of all, memory bandwidth and motherboards on AMD platforms have nothing to do with each other. The motherboard specifies the top speed as the top speed available on the market at the time of printing the manual, but the motherboard itself has no influence over the memory speeds supported. The memory controller is in the CPU, and the CPU determines what types of memory are supported. To answer the OP's question on speeds There is no default speed for a specific CPU or godforbid a motherboard, stuff runs at the speeds of the RAM you brought. Fifth, memtest is explicitly stated not to be a benchmarking tool. The numbers you find in there are memtest binary load times and are highly inaccurate, although they can give you a general idea of bandwidth. LP, Jure. Learn more opens in a new window or tab This amount is subject to change until you make payment. For additional information, see the Global Shipping Programme terms and conditions opens in a new window or tab This amount is subject to change until you make payment. If you reside in an EU member state besides UK, import VAT on this purchase is not recoverable. For additional information, see the Global Shipping Programme terms and conditions opens in a new window or tab Delivery times may vary, especially during peak periods and will depend on when your payment clears opens in a new window or tab.

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Install MSI live support, then download and install recommended BIOS update and Realtech Ethernet controller driver this on blue my mind away increasing broadband speed like 5 times for me. Bios update is easy extract downloaded BIOS file and run install.exe. No clue how to use OC switches, since manual doesn't cover it. Unless it's in compatibility list, you'll have to do some adjusting to make it run stable. Board has never failed me in over a year, or any problems, same goes as my previous MSI setup. Do your research before buying things and so many people on this site wouldn't have so many problems! I had to set it to a lower speed. Maybe it's my fault. Also this board had no issues upon starting up. As long as you have a supported AM3 sempron, Athlon II or even Phenom II it will automatically identify the CPU and try to come on. Couple this with Kingston or Crucial DDR3 240 pin ram 1600 up to 2 or 4gb, 500 watt power supply and a good sata hdd and dvd burner, and you have yourself a new machine. If it does boot up please update the bios to v1.9 from MSI website, as the current v1.2 bios has issues with sound and automatically over clocking the CPU when you told it not to. When it unlocks the 4th core, do not ocd the CPU past its default speed, as most 4th cores unlocked on all AMD CPUs can't handle that kind of stress, not unless you have an after market heatsink fan and good RAM voltages it might be able to handle it, just beware. Upon first bootup, prepare for some BSOD and to fix them fast. On boot, I would get no video, tried multiple video cards. Used an AMD Phenom 2 X6. I bought it elsewhere for 38 bucks, and it was still not worth it. Click here for more details. We'll only use your email to contact you We'll only use your email to contact you Secure shopping made faster. Check out with PayPal. Any exceptions to the condition of the item outside the manufacturer's information should be provided in the listing, up to and including warranty details.

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But then again most non server boards don't, which is a shame. I will be recommending this board for a long time. The FSB over clocking feature is simple and easy to use. After OS and driver install I made use of this board's Auto overlocking feature and used the 10% setting to take the processor up to 3.3 GHz from stock 3.0 with the flip of a switch. Perfect for the stock fan and heat sink. This board is an excellent budget buy. The automatic driver downloading is another plus. Here are the before and after results of the OC Switch using CPUZ. DEFAULT Both switches up Core Speed 2706.9 Bus Speed 200.5 HT Link 1804.5 DRAM frequency 401.0 20% OC both switches down Core Speed 3240.3 Bus Speed 240.0 HT Link 2160.1 DRAM Frequency 480.0 Upgradable to 6 core processors. 4 memory slots for DDR2 which is hard to find now. Memory placement limits size of CPU cooler. Running 8 gigs DDR2 which I did not want to replace. Phase switching along with the leaner feature set makes board more efficient than my old board. Phenom II 940; 8 gig Kingston 1066 ram; Radeon HD 5830; Asus 9400 combo TV tuner; Seagate 320Gb, Western Digital 500Gb, Samsung 1Tb, Hitachi 2Tb Hard drive; LiteOn BlueRay burner; HP Dvd burner, Cooler Master M700 Silent Pro PSI would like to help you get this resolved. Best Regards, User Support MSI Product Support. Has not given me any problems and have had it about 2 or three months. Software works great. Everything is user friendly. PC will play almost anything. If you need a budget PC this is for you! Click here for more details. Secure shopping made faster. Check out with PayPal. Any exceptions to the condition of the item outside the manufacturer's information should be provided in the listing, up to and including warranty details. Any accessories MAY OR MAY NOT be included. Newegg will NOT send you any missing accessories, even if it is required to use all of the item's functions. Open Box items usually do not come with manufacturer or vendor warranty or technical support.

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