

## M5A99X EVO R2.0

### DDR3 1333 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	socket support (Op)	
								2 DIMM	4 DIMM
ACTICA	ACT1GHU64B8F1333S	1GB	SS	SAMSUNG	K4B1G0846F	-	-	•	•
ACTICA	ACT2GHU64B8G1333M	2GB	DS	Micron	D9KPT	-	-	•	•
A-DATA	AM2U139C2P1	2GB	SS	A-DATA	3CCD-1509A	-	-	•	•
A-DATA	AM2U139C4P2	4GB	DS	A-DATA	3CCD-1509A	-	-	•	•
A-DATA	AXDU1333GC2G9(XMP)	2GB	SS	-	-	9-9-9-24	1.25~1.35	•	•
A-DATA	SU3U1333W8G9(XMP)	8GB	DS	ELPIDA	J4208BASE-DJ-F	-	-	•	•
Apacer	78.A1GC6.9L1	2GB	DS	Apacer	AM5D5808FEQSBG	9	-	•	•
Apacer	78.B1GDE.9L10C	4GB	DS	Apacer	AM5D5908CEHSBG	9	-	•	•
Asint	SLA302G08-EDJ1C	4GB	DS	ASint	302G08-DJ1C	-	-	•	•
Asint	SLZ302G08-EDJ1C	2GB	SS	ASint	302G08-DJ1C	-	-	•	•
ATP	AQ12M72E8BKH9S	4GB	DS	SAMSUNG	K4B2G0846C(ECC)	-	-	•	•
ATP	AQ56M72E8BJH9S	2GB	DS	SAMSUNG	K4B1G0846F(ECC)	-	-	•	•
BUFFALO	D3U1333-1G	1GB	SS	Elpida	J1108BFBG-DJ-F	-	-	•	•
BUFFALO	D3U1333-2G	2GB	DS	Elpida	J1108BFBG-DJ-F	-	-	•	•
CORSAIR	CMX8GX3M2A1333C9(XMP)	8GB ( 2x 4GB )	DS	-	-	9-9-9-24	1.5	•	•
EK Memory	EKM324L28BP8-1I3	4GB(2 x 2GB)	DS	-	-	9	-	•	•
Elixir	M2F2G64CB88D7N-CG	2GB	SS	Elixir	M2CB2G80DN-CG	-	-	•	•
Elixir	M2F2G64CB88G7N-CG	2GB	SS	Elixir	N2CB2G80GN-CG	-	-	•	•
Elixir	M2F4G64CB88H5N-CG	4GB	DS	Elixir	M2CB2G80DN-CG	-	-	•	•
ELPIDA	EBJ41UF8BCF0-DJ-F	4GB	DS	ELPIDA	J2108BCSE-DJ-F	-	-	•	•
G.SKILL	F3-10600CL9D-4GBNT	4GB ( 2x 2GB )	DS	G.SKILL	D3 128M8CE9 2GB	9-9-9-24	1.5	•	•
G.SKILL	F3-10666CL7D-8GBRH(XMP)	8GB ( 2x 4GB )	DS	-	-	7-7-7-21	1.5	•	•
G.SKILL	F3-10666CL8D-4GBHK(XMP)	4GB ( 2x 2GB )	DS	-	-	8-8-8-21	1.5	•	•
G.SKILL	F3-10666CL9D-8GBXL	8GB ( 2x 4GB )	DS	-	-	9-9-9-24	1.5	•	•
GEIL	GB34GB1333C7DC	4GB(2 x 2GB)	DS	GEIL	GL1L128M88BA15FW	7-7-7-24	1.5	•	•
GEIL	GET316GB1333C9QC	16GB ( 4x 4GB )	DS	-	-	9-9-9-24	1.5	•	•
GoodRam	GR1333D364L9/2G	2GB	DS	Qimonda	IDSH1G-03A1F1C-13H	-	-	•	•
Hynix	HMT125U6TFR8A-H9	2GB	DS	Hynix	H5TC1G83TFR	-	-	•	•
Hynix	HMT325U6BFR8C-H9	2GB	SS	Hynix	H5TQ2G83BFR	-	-	•	•
INNODISK	M3UN-2GHJBC09	2GB	SS	Hynix	H5TQ2G83CFRH9C	9-9-9-24	-	•	•
INNODISK	M3UN-4GHJAC09	4GB	DS	Hynix	H5TQ2G83CFRH9C	9-9-9-24	-	•	•
KINGMAX	FLFD45F-B8KL9	1GB	SS	KINGMAX	KFB8FNLF-BNF-15A	-	-	•	•
KINGMAX	FLFE85F-C8KL9	2GB	SS	KINGMAX	KFC8FNLF-GXX-12A	-	-	•	•
KINGMAX	FLFF65F-C8KL9	4GB	DS	KINGMAX	KFC8FNLF-GXX-12A	-	-	•	•
KINGSTON	KVR1333D3N9/2G	2GB	DS	Kingston	D1288JPNPLD9U	9	1.5	•	•
KINGSTON	KVR1333D3N9/2G(綠版)	2GB	DS	Elpida	J1108BDBG-DJ-F	-	1.5	•	•
KINGSTON	KVR1333D3S8N9/2G	2GB	SS	Micron	IFD77 D9LGK	-	1.5	•	•
KINGTIGER	F10DA2T1680	2GB	DS	KINGTIGER	KTG1333PS1208NST-C9	-	-	•	•
KINGTIGER	KTG2G1333PG3	2GB	DS	-	-	-	-	•	•
Mach Xtreme	MXD3U133316GQ	16GB ( 4x 4GB )	DS	-	-	-	-	•	•
Mach Xtreme	MXD3V13332GS	2GB	SS	Mach Xtreme	C2S46D30-D313	-	-	•	•
MICRON	MT16JTF1G64AZ-1G4D1	8GB	DS	MICRON	D9PCP	-	-	•	•
MICRON	MT16KTF51264AZ-1G6M1	4GB	DS	MICRON	D9PFJ	-	-	•	•
MICRON	MT8JTF25664AZ-1G4M1	2GB	SS	MICRON	D9PFJ	-	-	•	•
OCZ	OCZ3G1333LV8GK	8GB ( 2x 4GB )	DS	-	-	9-9-9	1.65	•	•
OCZ	OCZ3RPR1333C9LV8GK	8GB ( 2x 4GB )	DS	-	-	9-9-9	1.65	•	•
Patriot	AE32G1339U1-U	2GB	SS	AMD	23EY4587MB3H	-	1.5	•	•
Patriot	PGD316G1333ELK(XMP)	16GB ( 2x 8GB )	DS	-	-	9-9-9-24	1.5	•	•
RiDATA	C304627CB1AG22Fe	2GB	DS	RiDATA	C304627CB1AG22Fe	9	-	•	•
RiDATA	E304459CB1AG32Cf	4GB	DS	RiDATA	E304459CB1AG32Cf	9	-	•	•
SAMSUNG	M378B1G73AH0-CH9	8GB	DS	SAMSUNG	K4B4G0846A-HCH9	-	-	•	•
SAMSUNG	M378B5273CH0-CH9	4GB	DS	SAMSUNG	K4B2G0846C	-	-	•	•
SAMSUNG	M378B5273DH0-CH9	4GB	DS	SAMSUNG	K4B2G08460	-	-	•	•
SAMSUNG	M378B5773DH0-CH9	2GB	SS	SAMSUNG	K4B2G08460	-	-	•	•
Silicon Power	SP001GBLTE1333S01	1GB	SS	NANYA	NT5CB128M8AN-CG	-	-	•	•
Silicon Power	SP002GBLTE1333S01	2GB	DS	NANYA	NT5CB128M8AN-CG	-	-	•	•
Team	TED34096M1333HC9	4GB	DS	Team	T3D2568LT-13	-	-	•	•
Team	TXD31048M1333C7-D(XMP)	1GB	SS	Team	T3D1288LT-13	7-7-7-21	1.75	•	•
Transcend	TS1GLK64V3H	8GB	DS	MICRON	D9PBC	-	-	•	•
Transcend	TS256MLK64V3N ( 585541 )	2GB	SS	Micron	ICD77 D9LGK	9	-	•	•

#### 4 DIMM Slots

- **1 DIMM:** Supports one module inserted in any slot as Single-channel memory configuration
- **2 DIMM:** Supports one pair of modules inserted into either the **blue** slots or the **black** slots as one pair of Dual-channel memory configuration
- **4 DIMM:** Supports 4 modules inserted into both the **blue** and **black** slots as two pairs of Dual-channel memory configuration

-When installing total memory of 4GB capacity or more, Windows 32-bit operation system may only recognize less than 3GB. Hence, a total installed memory of less than 3GB is recommended.

-It is recommended to install the memory modules from the slots for better overclocking capability.

-The default DIMM frequency depends on its Serial Presence Detect (SPD), which is the standard way of accessing information from a memory module. Under the default state, some memory modules for overclocking may operate at a lower frequency than the vendor-marked value.

-Memory module with memory frequency higher than 2133 MHz and its corresponding timing or the loaded XMP Profile is not the JEDEC memory standard. The stability and compatibility of these memory modules depend on the CPU's capabilities and other installed devices.

-Always install DIMMs with the same CAS latency. For optimal compatibility, we recommend that you install memory modules of the same version or date code (D/C) from the same vendor. Check with the retailer to get the correct memory modules.

## M5A99X EVO R2.0

### DDR3 1600 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	socket support (Opt)	
								2 DIMM	4 DIMM
<b>A-DATA</b>	AM2U16BC2P1	2GB	SS	A-DATA	3CCD-1509A	-	-	•	•
<b>A-DATA</b>	AX3U1600PC4G8(XMP)	4GB	DS	-	-	8-8-8-24	1.55-1.75	•	•
<b>A-DATA</b>	AX3U1600XC4G79(XMP)	4GB	DS	-	-	7-9-7-21	1.65	•	•
<b>AEXEA</b>	AXA3PS2G1600S18V(XMP)	2GB	DS	-	-	-	1.65	•	•
<b>AEXEA</b>	AXA3PS4GK1600S18V(XMP)	4GB ( 2x 2GB )	DS	-	-	-	1.65	•	•
<b>AMD</b>	AP38G1608U2K(XMP)	8GB ( 2x 4GB )	DS	-	-	9-9-9-28	1.65	•	•
<b>Asint</b>	SLA302G08-EGG1C(XMP)	4GB	DS	Asint	302G08-GG1C	9-9-9-27	-	•	•
<b>Asint</b>	SLZ302G08-EGN1C	2GB	SS	Asint	302G08-GN1C	-	-	•	•
<b>ATP</b>	AQ12M648B8KK0S	4GB	DS	SAMSUNG	K4B2G08460	-	NO	•	•
<b>CORSAIR</b>	CMX6GX3M3A1600C9(XMP)	6GB ( 3x 2GB )	DS	-	-	9-9-9-24	1.65	•	•
<b>CORSAIR</b>	CMZ32GX3M4X1600C10 (Ver.2.2)(XMP)	32GB ( 4x 8GB )	DS	-	-	10-10-10-27	1.5	•	•
<b>CORSAIR</b>	CMZ8GX3M4X1600C9(Ver.2.12)(XMP)	8GB ( 4x 2GB )	SS	-	-	9-9-9-24	1.5	•	•
<b>Crucial</b>	BL12864BN1608.8FF(XMP)	2GB( 2x 1GB )	SS	-	-	8-8-8-24	1.65	•	•
<b>Crucial</b>	BL25664BN1608.16FF(XMP)	4GB( 2x 2GB )	DS	-	-	8-8-8-24	1.65	•	•
<b>Crucial</b>	BLT4G3D1608DT1TX0.16FM(XMP)	4GB	DS	-	-	8-8-8-24	1.5	•	•
<b>EK Memory</b>	EKM324L28BP8-116(XMP)	4GB( 2x 2GB )	DS	-	-	9	-	•	•
<b>EK Memory</b>	EKM324L28BP8-116(XMP)	4GB(2x 2GB)	DS	-	-	9	-	•	•
<b>Elixir</b>	M2X2G64CB88G7N-DG(XMP)	2GB	SS	Elixir	N2CB2G80GN-DG	9-9-9-28	-	•	•
<b>Elixir</b>	M2X4G64CB88HG5N-DG(XMP)	4GB	DS	Elixir	N2CB2G80GN-DG	9-9-9-28	-	•	•
<b>G.SKILL</b>	F3-12800CL7Q-16GBXH(XMP)	16GB ( 4x 4GB )	DS	-	-	7-8-7-24	1.6	•	•
<b>G.SKILL</b>	F3-12800CL9D-4GBN(XMP)	4GB ( 2x 2GB )	DS	-	-	9-9-9-24	1.5	•	•
<b>G.SKILL</b>	F3-12800CL9Q-16GBXL(XMP)	16GB ( 4x 4GB )	DS	-	-	9-9-9-24	1.5	•	•
<b>GEIL</b>	GET316GB1600C9QC(XMP)	16GB ( 4x 4GB )	DS	-	-	9-9-9-28	1.6	•	•
<b>GEIL</b>	GUP34GB1600C7DC(XMP)	4GB ( 2x 2GB )	DS	-	-	7-7-7-24	1.6	•	•
<b>GEIL</b>	GVP38GB1600C8QC(XMP)	8GB ( 4x 2GB )	DS	-	-	8-8-8-28	1.6	•	•
<b>GoodRam</b>	GR1600D364L9/2G	2GB	DS	GoodRam	GF1008KC-JN	-	-	•	•
<b>Hynix</b>	HMT351U6CFR8C-PB	4GB	DS	Hynix	H5TQ2G83CFR	-	-	•	•
<b>Hynix</b>	HMT141GU8MFR8C-PB	8GB	DS	Hynix	H5TQ4G83MFR	-	-	•	•
<b>KINGMAX</b>	FLGE85F-C8KL9A(XMP)	2GB	SS	KINGMAX	N/A	9-9-9-28	-	•	•
<b>KINGMAX</b>	FLGF65F-C8KL9A(XMP)	4GB	DS	KINGMAX	N/A	9-9-9-28	-	•	•
<b>KINGSTON</b>	KHX1600C9D3K3/12GX(XMP)	12GB( 3x 4GB )	DS	-	-	-	1.65	•	•
<b>KINGSTON</b>	KHX1600C9D3K3/6GX(XMP)	6GB ( 3x 2GB )	DS	-	-	9	1.65	•	•
<b>Kingston</b>	KHX1600C9D3K4/16GX(XMP)	16GB ( 4x 4GB )	DS	-	-	9-9-9-24	1.65	•	•
<b>KINGTIGER</b>	KTG2G1600PG3(XMP)	2GB	DS	-	-	-	-	•	•
<b>MICRON</b>	MT16KTF51264AZ-1G6M1	4GB	DS	MICRON	D9PFJ	11-11-11-28	-	•	•
<b>Mushkin</b>	996805(XMP)	4GB ( 2x 2GB )	DS	-	-	6-8-6-24	1.65	•	•
<b>Mushkin</b>	998805(XMP)	6GB ( 3x 2GB )	DS	-	-	6-8-6-24	1.65	•	•
<b>OCZ</b>	OCZ3BE1600C8L4GK	4GB( 2x 2GB )	DS	-	-	8-8-8	1.65	•	•
<b>OCZ</b>	OCZ3OB1600L4GK	4GB( 2x 2GB )	DS	-	-	9-9-9	1.65	•	•
<b>Patriot</b>	AE32G1609U1-U	2GB	SS	AMD	23EY4587MB6H	-	1.5	•	•
<b>Patriot</b>	PGD38G1600ELK(XMP)	8GB ( 2x 4GB )	DS	-	-	9-9-9-24	1.65	•	•
<b>Patriot</b>	PX538G1600LLK(XMP)	8GB ( 2x 4GB )	DS	-	-	8-8-8-24	1.65	•	•
<b>SanMax</b>	SMD-4G68HP-16KZ	4GB	DS	Hynix	H5TQ2G83BFRPBC	-	1.5	•	•
<b>SanMax</b>	SMD-4G68NG-16KK	4GB	DS	ELPIDA	J2108BDBG-GN-F	-	-	•	•
<b>Silicon Power</b>	SP002GBLTU160V02(XMP)	2GB	SS	S-POWER	20YT5NG	9-11-11-28	1.5	•	•
<b>Silicon Power</b>	SP004GBLTU160V02(XMP)	4GB	DS	S-POWER	20YT5NG	9-9-9-24	1.5	•	•
<b>Team</b>	TXD31024M1600C8-D(XMP)	1GB	SS	Team	T3D1288RT-16	8-8-8-24	1.65	•	•
<b>Team</b>	TXD32048M1600C8-D(XMP)	2GB	DS	Team	T3D1288RT-16	8-8-8-24	1.65	•	•
<b>Team</b>	TXD34096M1600HC9-D(XMP)	4GB	DS	Hynix	H5TC2G83BFRH9A	9-9-9-24	1.5	•	•
<b>Transcend</b>	TS256MLK64V6N	2GB	SS	Transcend	K4B2G0846C	-	-	•	•
<b>Transcend</b>	TS512MLK64V6N	4GB	DS	MICRON	D9PFJ	-	-	•	•

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-The default DIMM frequency depends on its Serial Presence Detect (SPD), which is the standard way of accessing information from a memory module. Under the default state, some memory modules for overclocking may operate at a lower frequency than the vendor-marked value.

-Memory module with memory frequency higher than 2133 MHz and its corresponding timing or the loaded XMP Profile is not the JEDEC memory standard. The stability and compatibility of these memory modules depend on the CPU's capabilities and other installed devices.

-Always install DIMMs with the same CAS latency. For optimal compatibility, we recommend that you install memory modules of the same version or date code (D/C) from the same vendor. Check with the retailer to get the correct memory modules.

## M5A99X EVO R2.0

### DDR3 1800 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	iMM socket support (Optional)	
								2 DIMM	4 DIMM
<b>G.SKILL</b>	F3-14400CL9D-4GBRL(XMP)	4GB(2 x 2GB)	DS	-	-	9-9-9-24	1.6	•	•

### DDR3 1866 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	iMM socket support (Optional)	
								2 DIMM	4 DIMM
<b>A-DATA</b>	AX3U1866GC2G9B(XMP)	2GB	SS	-	-	9-11-9-27	1.55~1.75	•	•
<b>A-DATA</b>	AX3U1866GC4G9B(XMP)	4GB	DS	-	-	9-11-9-27	1.55~1.75	•	•
<b>CORSAIR</b>	CMT32GX3M4X1866C9(Ver3.23)(XMP)	32GB ( 4x 8GB )	DS	-	-	9-10-9-27	1.5	•	•
<b>CORSAIR</b>	CMZ32GX3M4X1866C10(Ver3.23)(XMP)	32GB ( 4x 8GB )	DS	-	-	10-11-10-27	1.5	•	•
<b>Crucial</b>	BLE4G3D1869DE1XT0.16FMD(XMP)	4GB	DS	-	-	9-9-9-27	1.5	•	•
<b>G.SKILL</b>	F3-14900CL10Q2-64GBZLD(XMP)	64GB ( 8x 8GB )	DS	-	-	10-11-10-30	1.5	•	•
<b>G.SKILL</b>	F3-14900CL9Q-16GBZL(XMP)	16GB ( 4x 4GB )	DS	-	-	9-10-9-28	1.5	•	•
<b>Kingston</b>	KHX1866C9D3K2/8GX(XMP)	8GB ( 2x 4GB )	DS	-	-	9-9-9-24	1.65	•	•
<b>Patriot</b>	PXD34G1866ELK(XMP)	4GB ( 2x 2GB )	SS	-	-	9-9-9-24	1.65	•	•
<b>Patriot</b>	PXD38G1866ELK(XMP)	8GB ( 2x 4GB )	DS	-	-	9-11-9-27	1.65	•	•
<b>Team</b>	TXD34096M1866HC9K-L(XMP)	4GB	DS	Hynix	H5TC2G83BFRH9A	9-11-9-27	1.65	•	•

### DDR3 2000 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	iMM socket support (Optional)	
								2 DIMM	4 DIMM
<b>A-DATA</b>	AX3U2000GB2G9B(XMP)	2GB	DS	-	-	9-11-9-27	1.55~1.75	•	•
<b>A-DATA</b>	AX3U2000GC4G9B(XMP)	4GB	DS	-	-	9-11-9-27	1.55~1.75	•	•
<b>AEXEA</b>	AXA3ES2G2000LG28V(XMP)	2GB	DS	-	-	-	1.65	•	•
<b>AEXEA</b>	AXA3ES4GK2000LG28V(XMP)	4GB ( 2x 2GB )	DS	-	-	-	1.65	•	•
<b>Apacer</b>	78.AAGD5.9KD(XMP)	6GB(3 x 2GB)	DS	-	-	9-9-9-27	-	•	•
<b>Asint</b>	SLA302G08-ML2HB(XMP)	4GB	DS	Hynix	H5TQ2G83BFRH9C	9-9-9-27	-	•	•
<b>CORSAIR</b>	CMT6GX3M3A2000C8(XMP)	6GB ( 3x 2GB )	DS	-	-	8-9-8-24	1.65	•	•
<b>CORSAIR</b>	CMZ4GX3M2A2000C10(Ver5.12)(XMP)	4GB ( 2x 2GB )	SS	-	-	10-10-10-27	1.5	•	•
<b>G.SKILL</b>	F3-16000CL9D-4GBRH(XMP)	4GB(2 x 2GB)	DS	-	-	9-9-9-24	1.65	•	•
<b>G.SKILL</b>	F3-16000CL9D-4GBTD(XMP)	4GB(2 x 2GB)	DS	-	-	9-9-9-24	1.65	•	•
<b>GEIL</b>	GUP34GB2000C9DC(XMP)	4GB ( 2x 2GB )	DS	-	-	9-9-9-28	1.65	•	•
<b>Patriot</b>	PVT36G2000LLK(XMP)	6GB(3 x 2GB)	DS	-	-	8-8-8-24	1.65	•	•
<b>Silicon Power</b>	SP002GBLYU200S02(XMP)	2GB	DS	-	-	-	-	•	•
<b>Team</b>	TXD32048M2000C9(XMP)	2GB	DS	Team	T3D1288RT-20	9-9-9-24	1.5	•	•
<b>Team</b>	TXD32048M2000C9-L(XMP)	2GB	DS	Team	T3D1288LT-20	9-9-9-24	1.5	•	•
<b>Transcend</b>	TX2000KLN-8GK (388375)(XMP)	4GB	DS	-	-	-	1.6	•	•

### DDR3 2133 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	iMM socket support (Optional)	
								2 DIMM	4 DIMM
<b>Apacer</b>	78.BAGE4.AFD0C(XMP)	8GB ( 2x 4GB )	DS	-	-	9-9-9-24	-	•	•
<b>CORSAIR</b>	CMT4GX3M2A2133C9(XMP)	4GB ( 2x 2GB )	DS	-	-	9-10-9-24	1.65	•	•
<b>CORSAIR</b>	CMT4GX3M2B2133C9(Ver7.1)(XMP)	4GB ( 2x 2GB )	DS	-	-	9-9-9-24	1.5	•	•
<b>G.SKILL</b>	F3-17000CL9Q-16GBZH(XMP)	16GB ( 4x 4GB )	DS	-	-	9-11-10-28	1.65	•	•
<b>KINGSTON</b>	KHX2133C11D3K4/16GX(XMP)	16GB ( 4x 4GB )	DS	-	-	11-12-11-30	1.65	•	•
<b>KINGSTON</b>	KHX2133C11D3T1K2/16GX(XMP)	16GB ( 2x 8GB )	DS	-	-	9-9-9-24	1.6	•	•
<b>Patriot</b>	PVV34G2133C9K(XMP)	4GB ( 2x 2GB )	DS	-	-	9-11-9-27	1.66	•	•
<b>Patriot</b>	PXD38G2133C11K(XMP)	8GB ( 2x 4GB )	DS	-	-	9-9-9-24	1.65	•	•
<b>Team</b>	TXD34096M2133HC9N-L(XMP)	4GB	DS	SAMSUNG	K4B2G0846D	9-9-9-24	1.65	•	•

### DDR3 2200 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	iMM socket support (Optional)	
								2 DIMM	4 DIMM
<b>G.SKILL</b>	F3-17600CL7D-4GBFLS(XMP)	4G ( 2x 2G )	DS	-	-	7-10-10-28	1.65	•	•
<b>KINGMAX</b>	FLKE85F-B8KJAA-FEIS(XMP)	4GB ( 2x 2GB )	DS	Kingmax	N/A	-	-	•	•

### DDR3 2400 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	iMM socket support (Optional)	
								2 DIMM	4 DIMM
<b>G.SKILL</b>	F3-19200CL11Q-16GBZHD(XMP)	16GB ( 4x 4GB )	DS	-	-	11-11-11-31	1.65	•	•
<b>Team</b>	TXD34096M2400HC9N-L(XMP)	4GB	DS	SAMSUNG	K4B2G0846D	9-9-9-24	1.65	•	•
<b>Transcend</b>	TX2400KLU-4GK (381850)(XMP)	2GB	DS	-	-	-	1.65	•	•
<b>Transcend</b>	TX2400KLU-4GK(374243)(XMP)	2GB	DS	-	-	-	1.65	•	•

#### 4 DIMM Slots

- **1 DIMM:** Supports one module inserted in any slot as Single-channel memory configuration
- **2 DIMM:** Supports one pair of modules inserted into either the **blue** slots or the **black** slots as one pair of Dual-channel memory configuration
- **4 DIMM:** Supports 4 modules inserted into both the **blue** and **black** slots as two pairs of Dual-channel memory configuration

-When installing total memory of 4GB capacity or more, Windows 32-bit operation system may only recognize less than 3GB. Hence, a total installed memory of less than 3GB is recommended.  
-It is recommended to install the memory modules from the slots for better overclocking capability.

-The default DIMM frequency depends on its Serial Presence Detect (SPD), which is the standard way of accessing information from a memory module. Under the default state, some memory modules for overclocking may operate at a lower frequency than the vendor-marked value.

-Memory module with memory frequency higher than 2133 MHz and its corresponding timing or the loaded XMP Profile is not the JEDEC memory standard. The stability and compatibility of these memory modules depend on the CPU's capabilities and other installed devices.

-Always install DIMMs with the same CAS latency. For optimal compatibility, we recommend that you install memory modules of the same version or date code (D/C) from the same vendor. Check with the retailer to get the correct memory modules.