

## DDR3 1333 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	MM socket support (Optional)		
								1 DIMM	2 DIMM	4 DIMM
AMD	AE32G1339U1-U	2GB	SS	AMD	23EY4587MB3H	-	1.5	•	•	•
AMD	AE34G1339U2-U	4GB	DS	AMD	23EY4587MB3H	-	1.5	•	•	•
Apacer	78.B1GDE.9L10C	4GB	DS	Apacer	AM5D5908CEHSBG	9	-	•	•	•
Asint	SLA302G08-EDJ1C	2GB	SS	ASint	302G08-DJ1C	-	-	•	•	•
Asint	SLA304G08-EDJ1B	4GB	SS	Asint	304G08-DJ1B	9-10-10-26	-	•	•	•
Asint	SLB304G08-EDJ1B	8GB	DS	Asint	304G08-DJ1B	9-9-9-24	-	•	•	•
BUFFALO	D3U1333-1G	1GB	SS	Elpida	J1108BFBG-DJ-F	-	-	•	•	•
BUFFALO	D3U1333-2G	2GB	DS	Elpida	J1108BFBG-DJ-F	-	-	•	•	•
BUFFALO	D3U1333-4G	4GB	DS	NANYA	NT5CB256M8BN-CG	-	-	•	•	•
CORSAIR	CMV8GX3M1A1333C9	8GB	DS	-	-	9-9-9-24	-	•	•	•
CORSAIR	CMV8GX3M2A1333C9	8GB ( 2x 4GB )	DS	-	N/A	9-9-9-24	-	•	•	•
CORSAIR	CMX4GX3M1A1333C9 (Ver2.12)	4GB ( 1x 4GB )	DS	-	-	9-9-9-24	1.5	•	•	•
CORSAIR	CMX4GX3M1A1333C9 (Ver5.11)	4GB ( 1x 4GB )	DS	-	-	9-9-9-24	1.5	•	•	•
CORSAIR	CMX8GX3M1A1333C9 (Ver2.2)	8GB	DS	-	-	9-9-9-24	1.5	•	•	•
CORSAIR	CMX8GX3M2A1333C9(XMP)	8GB ( 2x 4GB )	DS	-	-	9-9-9-24	1.5	•	•	•
G.SKILL	F3-10666CL9D-8GBXL	8GB ( 2x 4GB )	DS	-	-	9-9-9-24	1.5	•	•	•
GEIL	GG34GB1333C9DC	4GB ( 2x 2GB )	DS	GEIL	GL1L128M88BA15B	9-9-9-24	1.3	•	•	•
GEIL	GVP34GB1333C9DC	4GB ( 2x 2GB )	DS	-	-	9-9-9-24	1.5	•	•	•
GEIL	GVP38GB1333C9DC	8GB ( 2x 4GB )	DS	-	-	9-9-9-24	1.5	•	•	•
INNODISK	M3UN-2GHJBC09	2GB	SS	Hynix	H5TQ2G83CFRH9C	9-9-9-24	-	•	•	•
INNODISK	M3UN-4GHJAC09	4GB	DS	Hynix	H5TQ2G83CFRH9C	9-9-9-24	-	•	•	•
KINGMAX	FLFE85F-C8KL9	2GB	SS	KINGMAX	KFC8FNLBF-GXX-12A	-	-	•	•	•
KINGMAX	FLFE85F-C8KL9	2GB	SS	KINGMAX	KFC8FNLXF-DXX-15A	-	-	•	•	•
KINGMAX	FLFF65F-C8KL9	4GB	DS	KINGMAX	KFC8FNLXF-DXX-15A	-	-	•	•	•
KINGSTON	KVR1333D3E9S/4G	4GB	DS	Elpida	J2108ECSE-DJ-F	9	1.5	•	•	•
KINGSTON	KVR1333D3N9H/4G	4GB	DS	ELPIDA	J2108BDBG-GN-F	-	1.5	•	•	•
KINGSTON	KVR13N9S8H/4	4GB	SS	ELPIDA	J4208BBBG-GN-F	-	1.5	•	•	•
Mach Xtreme	MXD3U133316GQ	16GB ( 4x 4GB )	DS	-	-	-	-	•	•	•
Mach Xtreme	MXD3V13332GS	2GB	SS	Mach Xtreme	C2S46D30-D313	-	-	•	•	•
MICRON	MT8JTF25664AZ-1G4M1	2GB	SS	MICRON	D9PFJ	-	-	•	•	•
Patriot	PSD32G13332	2GB	DS	Prriot	PM128M8D3BU-15	9	-	•	•	•
RiDATA	C304627CB1AG22Fe	2GB	DS	RiDATA	C304627CB1AG22Fe	9	-	•	•	•
RiDATA	E304459CB1AG32Cf	4GB	DS	RiDATA	E304459CB1AG32Cf	9	-	•	•	•
Silicon Power	SP001GBLTU133S02	1GB	SS	S-POWER	10YT3E5	9	-	•	•	•
Silicon Power	SP002GBLTU133V02	2GB	SS	S-POWER	20YT3NG	9-9-9-24	-	•	•	•
Silicon Power	SP004GBLTU133V02	4GB	DS	S-POWER	20YT3NG	9-9-9-24	-	•	•	•
UMAX	84E44G93UM-13BPSYW	4GB	SS	UMAX	U2S96D30TP-13	1333-9-9-9-24	-	•	•	•

UMAX	84E48G93UM-13BPSYW	8GB	DS	UMAX	U2S96D30TP-13	1333-9-9-9-24	-	•	•	•
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#### 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 **blue** 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.

## Z97

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Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	MM socket support (Optional)		
								1 DIMM	2 DIMM	4 DIMM
A-DATA	AD3U1600W4G11	4GB	SS	A-DATA	3WCD-1211A	11-11-11-28	-	•	•	•
A-DATA	AD3U1600W8G11	8GB	DS	A-DATA	3WCD-1211A	11-11-11-28	-	•	•	•
A-DATA	ADDU1600W4G11-B	4GB	SS	A-DATA	DWND-1211A	9-9-9-24	-	•	•	•
A-DATA	ADDU1600W8G11-B	8GB	DS	ELPIDA	J4208EBBG-GN-F	9-9-9-24	-	•	•	•
A-DATA	AX3U1600W4G9-DB(XMP)	8GB ( 2x 4GB )	SS	-	-	9-9-9-24	1.5	•	•	•
A-DATA	AX3U1600W8G9-DB(XMP)	16GB ( 2x 8GB )	DS	-	-	9-9-9-24	1.5	•	•	•
AMD	AE32G1609U1-U	2GB	SS	AMD	23EY4587MB6H	-	1.5	•	•	•
AMD	AE34G1609U2-U	4GB	DS	AMD	23EY4587MB6H	-	1.5	•	•	•
AMD	AP38G1608U2K(XMP)	8GB ( 2x 4GB )	DS	-	-	9-9-9-28	1.65	•	•	•
Apacer	78.B1GE3.9L10C	4GB	DS	Apacer	AM5D5908DEQSCK	-	1.65	•	•	•
Apacer	78.B1GET.9K00C	4GB	SS	Apacer	AM5D6008BQQSCK	11-11-11-28	-	•	•	•
Apacer	78.C1GET.9K10C	8GB	DS	Apacer	AM5D6008BQQSCK	11-11-11-31	-	•	•	•
Apacer	AHU04GFA60C9Q3R(XMP)	4GB	DS	-	-	11-11-11-28	-	•	•	•
Apacer	AHU08GFA60CBT3R(XMP)	8GB	DS	-	-	9-9-9-24	-	•	•	•
Asint	SLA302G08-EGG1C(XMP)	4GB	DS	Asint	302G08-GG1C	9-9-9-27	-	•	•	•
Asint	SLA302G08-EGJ1C(XMP)	4GB	DS	Asint	302G08-GJ1C	9-9-9-27	-	•	•	•
Asint	SLA302G08-EGN1C	4GB	DS	ASint	302G08-GN1C	-	-	•	•	•
Asint	SLA304G08-ENG1B	4GB	SS	Asint	304G08-GN1B	9-11-11-28	-	•	•	•
Asint	SLB304G08-EGJ1B(XMP)	8GB	DS	-	-	9-9-9-27	-	•	•	•
Asint	SLB304G08-EGN1B	8GB	DS	ASint	304G08-GN1B	-	-	•	•	•
Asint	SLZ302G08-EGN1C	2GB	SS	ASint	302G08-GN1C	-	-	•	•	•
AVEXIR	AVD3U16000904G-2CW(XMP)	8GB ( 2x 4GB )	DS	-	-	11-11-11-28	1.5	•	•	•
CORSAIR	CMD16GX3M2A1600C9 (Ver8.21)(XMP)	16GB ( 2x 8GB )	DS	-	-	9-9-9-24	1.5	•	•	
CORSAIR	CMD8GX3M2A1600C8 (Ver5.12)(XMP)	8GB ( 2x 4GB )	DS	-	-	1600 8-8-8-24	1.5	•	•	•
CORSAIR	CMD8GX3M2A1600C9 (Ver2.12)(XMP)	8GB ( 2x 4GB )	DS	-	-	9-9-9-24	1.5	•	•	•
CORSAIR	CML16GX3M2A1600C10 (Ver2.21)(XMP)	16GB ( 2x 8GB )	DS	-	-	10-10-10-27	1.5	•	•	•
CORSAIR	CML8GX3M2A1600C9 (Ver7.12)(XMP)	8GB ( 2x 4GB )	DS	-	-	9-9-9-24	1.5	•	•	•
CORSAIR	CMV8GX3M1A1600C11	8GB	DS	-	-	11-11-11-30	-	•	•	•
CORSAIR	CMX8GX3M2A1600C9 (Ver3.19)(XMP)	8GB ( 2x 4GB )	SS	-	-	9-9-9-24	1.65	•	•	•
CORSAIR	CMZ16GX3M2A1600C10 (Ver.3.24)(XMP)	16GB ( 2x 8GB )	DS	-	-	10-10-10-27	1.5	•	•	•
CORSAIR	CMZ16GX3M4A1600C9(XMP)	16GB ( 4x 4GB )	DS	-	-	9-9-9-24	1.5	•	•	•
CORSAIR	CMZ16GX3M4X1600C9 (Ver8.16)(XMP)	16GB ( 4x 4GB )	DS	-	-	1600-9-9-9-24	1.5	•	•	•
CORSAIR	CMZ32GX3M4X1600C10 (Ver2.2)(XMP)	32GB ( 4x 8GB )	DS	-	-	10-10-10-27	1.5	•	•	•
CORSAIR	CMZ4GX3M1A1600C9 (Ver8.16)(XMP)	4GB ( 1x 4GB )	DS	-	-	9-9-9-24	1.5	•	•	
CORSAIR	CMZ8GX3M1A1600C10 (Ver3.23)(XMP)	8GB ( 1x 8GB )	DS	-	-	10-10-10-27	1.5	•	•	
CORSAIR	CMZ8GX3M1A1600C10 (Ver8.21)(XMP)	8GB ( 1x 8GB )	DS	-	-	10-10-10-27	1.5	•	•	
CORSAIR	CMZ8GX3M2A1600C8(XMP)	8GB ( 2x 4GB )	DS	-	-	8-8-8-24	1.5	•	•	•
Crucial	BLS4G3D1609DS1S00.16FMR(XMP)	4GB	DS	-	-	1600-9-9-9-24	1.5	•	•	•
Crucial	BLT4G3D1608DT1TX0.16FM(XMP)	4GB	DS	-	-	8-8-8-24	1.5	•	•	•
Elixir	M2X2G64CB88G7N-DG(XMP)	2GB	SS	Elixir	N2CB2G80GN-DG	9-9-9-28	-	•	•	•

<b>Elixir</b>	M2X4G64CB8HG5N-DG(XMP)	4GB	DS	Elixir	N2CB2G80GN-DG	9-9-9-28	-	•	•	•
<b>G.SKILL</b>	F3-12800CL9D-8GBSR2(XMP)	8GB ( 2x 4GB )	DS	-	-	9-9-9-24	1.25	•	•	•
<b>G.SKILL</b>	F3-12800CL9Q-16GBXL(XMP)	16GB ( 4x 4GB )	DS	-	-	9-9-9-24	1.5	•	•	•
<b>G.Skill</b>	F3-12800CL9Q-16GBZL(XMP)	16GB ( 4x 4GB )	DS	-	-	9-9-9-24	1.5	•	•	•
<b>G.SKILL</b>	F3-1600C9Q-32GX(XMP)	32GB ( 4x 8GB )	DS	-	-	-	1.5	•	•	•
<b>GEIL</b>	GUP34GB1600C7DC(XMP)	4GB ( 2x 2GB )	DS	-	-	7-7-7-24	1.6	•	•	•
<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>	KHX16009CD3K2/8GX(XMP)	8GB ( 2x 4GB )	DS	-	-	9-9-9-27	1.65	•	•	•
<b>KINGSTON</b>	KHX1600C9D3B1/4G(XMP)	4GB	SS	-	-	9-9-9-27	1.65	•	•	•
<b>KINGSTON</b>	KHX1600C9D3K3/12GX(XMP)	12GB ( 3x 4GB )	DS	-	-	9	1.65	•	•	•
<b>KINGSTON</b>	KHX1600C9D3K3/6GX(XMP)	6GB ( 3x 2GB )	DS	-	-	9	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>KINGSTON</b>	KHX1600C9D3K6/24GX(XMP)	24GB ( 6x 4GB )	DS	-	-	9	1.65	•	•	•
<b>KINGSTON</b>	KHX1600C9D3LK2/8GX(XMP)	8GB ( 2x 4GB )	DS	-	-	9-9-9-24	1.35	•	•	•
<b>KINGSTON</b>	KHX1600C9D3P1K2/8G	8GB ( 2x 4GB )	DS	-	-	9	1.5	•	•	•
<b>KINGSTON</b>	KHX16C10B1K2/16X(XMP)	16GB ( 2x 8GB )	DS	-	-	-	1.5	•	•	•
<b>KINGSTON</b>	KHX16C9K2/16	16GB ( 2x 8GB )	DS	-	-	1333-9-9-24	1.5	•	•	•
<b>KINGSTON</b>	KHX16C9P1K2/16	16GB ( 2x 8GB )	DS	-	-	-	1.5	•	•	•
<b>KINGSTON</b>	KVR16N11/4	4GB	DS	KINGSTON	D2568JPUCPGGBU	11-11-11-28-1	-	•	•	•
<b>KINGSTON</b>	KVR16N11/4	4G	DS	Hynix	H5TQ2G83CFRPEC	-	1.5	•	•	•
<b>Micron</b>	MT16JTF1G64AZ-1G6E1	8GB	DS	Micron	D9QBJ	-	-	•	•	•
<b>Micron</b>	MT8JTF51264AZ-1G6E1	4GB	SS	Micron	D9QBJ	-	-	•	•	•
<b>MICRON</b>	MT8KTF25664AZ-1G6M1	2GB	SS	MICRON	D9PFJ	-	-	•	•	•
<b>Patriot</b>	PV316G160C9K(XMP)	16GB ( 2x 4GB )	SS	-	-	1600-9-9-24	1.5	•	•	•
<b>Patriot</b>	PV316G160C9K(XMP)	16GB ( 2x 8GB )	SS	-	-	1600-9-9-24	1.5	•	•	•
<b>SanMax</b>	SMD-4G28N1P-16KM	4GB	SS	ELPIDA	J4208BBBG-GN-F	1600	-	•	•	•
<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>SanMax</b>	SMD-8G28NP-16KM	8GB	DS	ELPIDA	J4208BBBG-GN-F	1600	-	•	•	•
<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>Silicon Power</b>	SP004GXLYU160NSA(XMP)	4GB	SS	-	-	1600-9-9-27	-	•	•	•
<b>Silicon Power</b>	SP008GXLYU160NSA(XMP)	8GB	DS	-	-	1600-9-9-27	-	•	•	•
<b>Team</b>	TED34GM1600C11BK	4GB	DS	Hynix	H5TC2G83EFR	11-11-11-28	1.5	•	•	•
<b>Team</b>	TED38GM1600C11BK	8GB	DS	Hynix	H5TQ4G83AFR	11-11-11-28	1.5	•	•	•
<b>Team</b>	TLD34G1600HC9BK(XMP)	8GB ( 2x 4GB )	DS	-	-	9-9-9-24	1.5	•	•	•
<b>Team</b>	TLD38G1600HC9BK(XMP)	16GB ( 2x 8GB )	DS	-	-	9-9-9-24	1.5	•	•	•
<b>Team</b>	TXD34096M1600HC9-D(XMP)	4GB	DS	Hynix	H5TC2G83BFRH9A	9-9-9-24	1.5	•	•	•
<b>Transcend</b>	TS1GLK64V6H(620945)	8GB	DS	SAMSUNG	K4B4G0846B	-	-	•	•	•
<b>Transcend</b>	TS1GLK64W6H	8GB	DS	SAMSUNG	K4B4G0846B	11-11-11-28-1	-	•	•	•
<b>Transcend</b>	TS512MLK64W6H	4GB	SS	SAMSUNG	K4B4G0846B	11-11-11-28-2	-	•	•	•
<b>UMAX</b>	84E44G93UM-16BPSYW	4GB	SS	UMAX	U2S96D30TP-16	1600-11-11-28	-	•	•	•

<b>UMAX</b>	84E48G93UM-16BPSYW	8GB	DS	UMAX	U2S96D30TP-16	1600-11-11-11-28	-	•	•	•
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4 DIMM Slots

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-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.

## Z97-A

### DDR3 1866 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	MM socket support (Optional)		
								1 DIMM	2 DIMM	4 DIMM
<b>CORSAIR</b>	CMD16GX3M2A1866C9 (Ver5.29)(XMP)	16GB ( 2x 8GB )	DS	-	-	1866 9-9-9-27	1.5	•	•	
<b>CORSAIR</b>	CMD16GX3M4A1866C9 (Ver4.13)(XMP)	16GB ( 4x 4GB )	DS	-	-	9-10-9-27	1.5	•	•	•
<b>CORSAIR</b>	CMD16GX3M4A1866C9 (Ver8.16)(XMP)	16GB ( 4x 4GB )	DS	-	-	9-10-9-27	1.5	•	•	•
<b>CORSAIR</b>	CMD32GX3M4A1866C9 (Ver3.24)(XMP)	32GB ( 4x 8GB )	DS	-	-	9-10-9-27	1.5	•	•	•
<b>CORSAIR</b>	CMD8GX3M2A1866C9 (Ver4.13)(XMP)	8GB ( 2x 4GB )	DS	-	-	-	1.5	•	•	•
<b>CORSAIR</b>	CMD8GX3M2A1866C9 (Ver5.12)(XMP)	8GB ( 2x 4GB )	DS	-	-	9-10-9-27	1.5	•	•	
<b>CORSAIR</b>	CMD8GX3M2A1866C9 (Ver8.16)(XMP)	8GB ( 2x 4GB )	DS	-	-	9-10-9-27	1.5	•	•	
<b>CORSAIR</b>	CMT32GX3M4X1866C9(Ver3.23)(XMP)	32GB ( 4x 8GB )	DS	-	-	9-10-9-27	1.5	•	•	•
<b>CORSAIR</b>	CMY16GX3M2A1866C9 (Ver 4.21)(XMP)	16GB ( 2x 8GB )	DS	-	-	9-10-9-27	1.5	•	•	•
<b>CORSAIR</b>	CMY8GX3M2A1866C9 (Ver3.24)(XMP)	8GB ( 2x 4GB )	DS	-	-	9-10-9-27	1.5	•	•	•
<b>CORSAIR</b>	CMZ16GX3M2A1866C10 (Ver5.29)(XMP)	16GB ( 2x 8GB )	DS	-	-	10-11-10-30	1.5	•	•	•
<b>CORSAIR</b>	CMZ16GX3M2A1866C9(XMP)	16GB ( 2x 8GB )	DS	-	-	1866-9-10-9-27	1.5	•	•	•
<b>CORSAIR</b>	CMZ32GX3M4X1866C10 (Ver3.23)(XMP)	32GB ( 4x 8GB )	DS	-	-	10-11-10-27	1.5	•	•	•
<b>CORSAIR</b>	CMZ32GX3M4X1866C10(Ver3.23)(XMP)	32GB ( 4x 8GB )	DS	-	-	10-11-10-27	1.5	•	•	•
<b>CORSAIR</b>	CMZ8GX3M2A1866C9 (Ver8.16)(XMP)	8GB ( 2x 4GB )	DS	-	-	9-10-9-27	1.5	•	•	•
<b>CORSAIR</b>	CMZ8GX3M2A1866C9(XMP)	8GB ( 2x 4GB )	DS	-	-	9-10-9-27	1.5	•	•	
<b>CORSAIR</b>	CMZ8GX3M2A1866C9G (Ver5.12)(XMP)	8GB ( 2x 4GB )	DS	-	-	1866 9-10-9-27	1.5	•	•	•
<b>Crucial</b>	BLE8G3D1869DE1TX0.16FED(XMP)	16GB ( 2x 8GB )	DS	-	-	1866-9-9-9-27	1.5	•	•	•
<b>Crucial</b>	BLE4G3D1869DE1XT0.16FMD(XMP)	4GB	DS	-	-	9-9-9-27	1.5	•	•	•
<b>G.SKILL</b>	F3-14900CL10Q-32GBZL(XMP)	32GB ( 4x 8GB )	DS	-	-	10-11-10-30	1.5	•	•	•
<b>G.SKILL</b>	F3-14900CL9D-8GBSR(XMP)	8GB ( 2x 4GB )	DS	-	-	9-10-9-28	1.5	•	•	•
<b>G.SKILL</b>	F3-14900CL9Q-16GBXL(XMP)	16GB ( 4x 4GB )	DS	-	-	9-10-9-28	1.5	•	•	•
<b>G.SKILL</b>	F3-14900CL9Q-16GBZL(XMP)	16GB ( 4x 4GB )	DS	-	-	9-10-9-28	1.5	•	•	•
<b>G.SKILL</b>	F3-14900CL9Q-16GBZL(XMP)	16GB ( 4x 4GB )	DS	-	-	9-10-9-28	1.5	•	•	•
<b>G.SKILL</b>	F3-1866C10Q2-64GZM(XMP)	64GB ( 2x 8GB )	DS	-	-	10-11-10-30	1.5	•	•	•
<b>G.SKILL</b>	F3-1866C10Q2-64GZM(XMP)	64GB ( 2x 8GB )	DS	-	-	10-11-10-30	1.5	•	•	•
<b>G.SKILL</b>	F3-1866C9Q-32GXM(XMP)	32GB ( 4x 8GB )	DS	-	-	9-10-9-28	1.5	•	•	•
<b>GEIL</b>	GEEL316GB1866C9DC(XMP)	16GB ( 2x 8GB )	DS	-	-	1866-9-10-9-28	1.65	•	•	•
<b>KINGSTON</b>	KHX1866C9D3K2/8GX(XMP)	8GB ( 2x 4GB )	DS	-	-	-	1.65	•	•	•
<b>Silicon Power</b>	SP004GXLYU186NSA(XMP)	4GB	SS	-	-	1866-9-11-9-27	-	•	•	•
<b>Silicon Power</b>	SP008GXLYU186NSA(XMP)	8GB	DS	-	-	1866-9-11-9-27	-	•	•	•

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 higher than 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.

## Z97

### DDR3 2000 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	MM socket support (Optional)		
								1 DIMM	2 DIMM	4 DIMM
<b>AEXEA</b>	AXA3ES4GK2000LG28V(XMP)	4GB ( 2x 2GB )	DS	-	-	-	1.65	•	•	•
<b>Asint</b>	SLA302G08-ML2HB(XMP)	4GB	DS	Hynix	H5TQ2G83BFRH9C	9-9-9-27	-	•	•	•
<b>GEIL</b>	GUP34GB2000C9DC(XMP)	4GB ( 2x 2GB )	DS	-	-	9-9-9-28	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.



## Z97

DDR3 2133 Qualified Vendors List (QVL)										
Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	MM socket support (Optional)		
								1 DIMM	2 DIMM	4 DIMM
<b>A-DATA</b>	AX3U2133W4G10-DR(XMP)	8GB ( 2x 4GB )	SS	-	-	10-11-11-30	1.65	●	●	●
<b>A-DATA</b>	AX3U2133W8G10-DR(XMP)	16GB ( 2x 8GB )	DS	-	-	10-11-11-30	1.65	●	●	●
<b>Apacer</b>	78.BAGE4.AFD0C(XMP)	8GB ( 2x 4GB )	DS	-	-	9-9-9-24	-	●	●	●
<b>Apacer</b>	AHU04GFB33CAQ3R(XMP)	4GB	DS	-	-	11-13-13-31	-	●	●	●
<b>CORSAIR</b>	CMD16GX3M2A2133C9 (Ver4.21)(XMP)	16GB ( 2x 8GB )	DS	-	-	9-11-11-31	1.65	●	●	●
<b>CORSAIR</b>	CMD32GX3M4A2133C9 (Ver4.21)(XMP)	32GB ( 4x 8GB )	DS	-	-	9-11-11-31	1.65	●	●	●
<b>CORSAIR</b>	CMD8GX3M2A2133C9 (Ver1.5)(XMP)	8GB ( 2x 4GB )	DS	-	-	9-11-10-27	1.5	●	●	●
<b>CORSAIR</b>	CMD8GX3M2B2133C9 (Ver5.12)(XMP)	8GB ( 2x 4GB )	DS	-	-	9-11-11-31	1.65	●	●	●
<b>CORSAIR</b>	CMY8GX3M2A2133C11R (Ver4.21)(XMP)	8GB ( 2x 4GB )	DS	-	-	11-11-11-27	1.5	●	●	●
<b>CORSAIR</b>	CMZ8GX3M2A2133C11R (Ver4.21)(XMP)	8GB ( 2x 4GB )	DS	-	-	11-11-11-27	1.5	●	●	●
<b>G.SKILL</b>	F3-17000CL11Q2-64GBZLD(XMP)	64GB ( 8x 8GB )	DS	-	-	11-11-11-30	1.5	●	●	●
<b>G.SKILL</b>	F3-17000CL9Q-16GBZH(XMP)	16GB ( 4x 4GB )	DS	-	-	9-11-10-28	1.65	●	●	●
<b>G.SKILL</b>	F3-2133C10Q-32GSR(XMP)	32GB ( 4x 8GB )	DS	-	-	10-12-12-31	1.5	●	●	●
<b>G.SKILL</b>	F3-2133C11Q-32GZL(XMP)	32GB ( 4x 8GB )	DS	-	-	11-11-11-31	1.5	●	●	●
<b>KINGSTON</b>	KHX2133C11D3K4/16GX(XMP)	16GB ( 4x 4GB )	DS	-	-	11-12-11-30	1.65	●	●	●
<b>KINGSTON</b>	KHX21C11T3FK8/64X(XMP)	64GB ( 8x 8GB )	DS	-	-	9-9-9-24	1.5	●	●	●
<b>Silicon Power</b>	SP004GXLYU213NSA(XMP)	4GB	SS	-	-	2133-11-12-11-30	-	●	●	●
<b>Silicon Power</b>	SP008GXLYU213NSA(XMP)	8GB	DS	-	-	2133-11-12-11-30	-	●	●	●
<b>Transcend</b>	TX2133KLH-16GK(XMP)	16GB ( 2x 8GB )	DS	-	-	2133-10-11-10-27	1.6	●	●	●
<b>Transcend</b>	TX2133KLN-8GK(XMP)	8GB ( 2x 4GB )	DS	-	-	2133-10-11-10-27	1.6	●	●	●

### 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 **blue** 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.

## Z97

DDR3 2400 Qualified Vendors List (QVL)										
Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	MM socket support (Optional)		
								1 DIMM	2 DIMM	4 DIMM
<b>A-DATA</b>	AX3U2400W4G11-DMV(XMP)	8GB ( 2x 4GB )	SS	-	-	11-13-13-35	1.65	•	•	•
<b>A-DATA</b>	AX3U2400W8G11-DMV(XMP)	16GB ( 2x 8GB )	DS	-	-	11-13-13-35	1.65	•	•	•
<b>Apacer</b>	78.BAGFL.AFD0C(XMP)	8GB ( 2x 4GB )	DS	-	-	11-12-12-30	-	•	•	•
<b>Apacer</b>	783BAGF3.AFD0C(XMP)	8GB ( 2x 4GB )	DS	-	-	11-11-11-30	-	•	•	•
<b>CORSAIR</b>	CMD16GX3M2A2400C10 (Ver4.21)(XMP)	16GB ( 2x 8GB )	DS	-	-	10-12-12-31	1.65	•	•	•
<b>CORSAIR</b>	CMD32GX3M4A2400C10 (Ver5.29)(XMP)	32GB ( 4x 8GB )	DS	-	-	10-12-12-31	1.65	•	•	•
<b>CORSAIR</b>	CMY16GX3M2A2400C10A (Ver4.21)(XMP)	16GB ( 8x 2GB )	DS	-	-	10-12-12-31	1.65	•	•	•
<b>CORSAIR</b>	CMY16GX3M2A2400C10R (Ver4.21)(XMP)	16GB ( 2x 8GB )	DS	-	-	10-12-12-31	1.65	•	•	•
<b>CORSAIR</b>	CMZ16GX3M2A2400C10 (Ver4.21)	16GB ( 2x 8GB )	DS	-	-	10-12-12-31	1.65	•	•	•
<b>G.SKILL</b>	F3-19200CL10Q2-64GBZHD(XMP)	64GB ( 8x 8GB )	DS	-	-	10-12-12-31	1.65	•	•	•
<b>G.SKILL</b>	F3-19200CL10Q-32GBZHD(XMP)	32GB ( 4x 8GB )	DS	-	-	10-12-12-31	1.65	•	•	•
<b>G.SKILL</b>	F3-19200CL11Q-16GBZHD(XMP)	16GB ( 4x 4GB )	DS	-	-	11-11-11-31	1.65	•	•	•
<b>G.SKILL</b>	F3-19200CL9D-4GBPIS(XMP)	4G ( 2x 2G )	DS	-	-	9-11-9-28	1.65	•	•	•
<b>G.SKILL</b>	F3-19200CL9Q-16GBZMD(XMP)	16GB ( 4x 4GB )	DS	-	-	9-11-11-31	1.65	•	•	•
<b>G.SKILL</b>	F3-2400C11Q-32GX(XMP)	32GB ( 4x 8GB )	DS	-	-	11-13-13-31	1.65	•	•	•
<b>GEIL</b>	GOC316GB2400C10QC(XMP)	16GB ( 4x 4GB )	DS	-	-	10-11-11-30	1.65	•	•	•
<b>GEIL</b>	GOC316GB2400C11QC(XMP)	16GB ( 4x 4GB )	DS	-	-	11-11-11-30	1.65	•	•	•
<b>Kingston</b>	KHX2400C11D3K4/8GX(XMP)	8GB ( 4x 2GB )	SS	-	-	11-13-11-30	1.65	•	•	•
<b>KINGSTON</b>	KHX24C11K4/16X(XMP)	16GB ( 4x 4GB )	DS	-	-	11-13-13-30	1.65	•	•	•
<b>KINGSTON</b>	KHX24C11T2K2/8X(XMP)	8GB ( 2x 4GB )	DS	-	-	-	1.65	•	•	•
<b>KINGSTON</b>	KHX24C11T3K2/16X(XMP)	16GB ( 2x 8GB )	DS	-	-	2400-11-13-13-32	1.65	•	•	•
<b>KINGSTON</b>	KHX24C11T3K4(XMP)	16GB ( 4x 4GB )	DS	-	-	2400-11-13-13-30	1.65	•	•	•
<b>KINGSTON</b>	KHX24C11T3K4/32X(XMP)	32GB ( 4x 8GB )	DS	-	-	9-9-9-24	1.65	•	•	•
<b>Mushkin</b>	997122R(XMP)	16GB ( 2x 8GB )	DS	-	-	2400-10-12-12-28	1.65	•	•	•
<b>Silicon Power</b>	SP004GXLYU240NSA(XMP)	4GB	SS	-	-	2400-11-13-13-32	-	•	•	•
<b>Transcend</b>	TX2400KLN-8GK(XMP)	8GB ( 2x 4GB )	DS	-	-	2400-11-12-11-29	1.6	•	•	•

### 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 **blue** 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.

## Z97

DDR3 2666 Qualified Vendors List (QVL)										
Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	MM socket support (Optional)		
								1 DIMM	2 DIMM	4 DIMM
Apacer	78.BAGFF.AFC0C(XMP)	8GB ( 2x 4GB )	DS	-	-	12-13-13-35	-	●	●	●
Apacer	78.BAGFR.AFD0C(XMP)	8GB ( 2x 4GB )	DS	-	-	12-13-13-35	-	●	●	●
Apacer	78.CAGFF.AFD0C(XMP)	16GB ( 2x 8GB )	DS	-	-	12-13-13-35	-	●	●	●
CORSAIR	CMD16GX3M4A2666C11 (Ver5.12)(XMP)	16GB ( 4x 4GB )	DS	-	-	11-13-13-35	1.65	●	●	●
G.SKILL	F3-2666CL10Q-16GBZHD(XMP)	16GB ( 4x 4GB )	DS	-	-	10-12-12-31	1.65	●	●	●
GEIL	GOC332GB2666C11QC(XMP)	32GB ( 4x 8GB )	DS	-	-	11-13-13-32	1.65	●	●	●
KINGSTON	KHX26C11T2K2/8X(XMP)	8GB ( 2x 4GB )	SS	-	-	2666-11-13-13-32	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 **blue** 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.

## Z97 ALL SERIES

### DDR3 2800 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	DIMM socket support (Optional)	
								2 DIMM	4 DIMM
AVEXIR	AVD3UH28001208G-4BZ1(XMP)	32GB ( 4x 8GB )	DS	-	-	12-14-14-35	1.65V	●	●
A_DATA	AX3U2800W4G12(XMP)	16GB ( 4x 4GB )	SS	-	-	12-14-14-36	1.65V	●	●
A_DATA	AX3U2800W8G12(XMP)	32GB ( 4x 8GB )	DS	-	-	12-14-14-36	1.65V	●	●
G.SKILL	F3-2800C12Q-32GTXD(XMP)	32GB ( 4x 8GB )	DS	-	-	12-13-13-35	1.65V	●	●
G.SKILL	F3-2800C12Q-32GTXDG(XMP)	32GB ( 4x 8GB )	DS	-	-	12-14-14-35	1.65V	●	●
G.SKILL	F3-2800C11Q-16GTXD(XMP)	16GB ( 4x 4GB )	DS	-	-	11-13-13-35	1.65V	●	●
G.SKILL	F3-2800C11D-8GTXD(XMP)	8GB ( 2x 4GB )	DS	-	-	11-13-13-35	1.65V	●	●
G.SKILL	F3-2800C11D-8GTXDG(XMP)	8GB ( 2x 4GB )	DS	-	-	11-14-14-35	1.65V	●	●
G.SKILL	F3-2800C11Q-16GTXDG(XMP)	16GB ( 4x 4GB )	DS	-	-	11-14-14-35	1.65V	●	●
G.SKILL	F3-2800C10D-8GTXD(XMP)	8GB ( 2x 4GB )	DS	-	-	10-12-12-35	1.65V	●	●
G.SKILL	F3-2800C12Q-16GTXDG(XMP)	16GB ( 4x 4GB )	DS	-	-	12-14-14-35	1.65V	●	●
G.SKILL	F3-2800C11D-16GTXDG(XMP)	16GB ( 2 x 8GB )	DS	-	-	11-14-14-35	1.65V	●	●
G.SKILL	F3-2800C11Q-32GTXDG(XMP)	32GB ( 4 x 8GB )	DS	-	-	11-14-14-35	1.65V	●	●
G.SKILL	F3-2800C11D-16GTXD(XMP)	16GB ( 2x 8GB )	DS	-	-	11-13-13-35	1.65V	●	●
G.SKILL	F3-2800C11Q-32GTXD(XMP)	32GB ( 4 x 8GB )	DS	-	-	11-13-13-35	1.65V	●	●
G.SKILL	F3-2800C12D-16GTXD(XMP)	16GB ( 2 x 8GB )	DS	-	-	12-14-14-35	1.65V	●	●
APACER	78.BAGH5.AFD0C(XMP)	8GB ( 2x 4GB )	DS	-	-	12-14-14-35	1.65V	●	
APACER	78.CAGH6.AFD0C(XMP)	16GB ( 2x 8GB )	DS	-	-	12-14-14-35	1.65V	●	
CORSAIR	CMD16GX3M4A2800C11(XMP)	16GB ( 4x 4GB )	DS	-	-	11-14-14-35	1.65V	●	●
CORSAIR	CMD16GX3M4A2800C12(XMP)	16GB ( 4x 4GB )	DS	-	-	12-14-14-36	1.65V	●	●
CORSAIR	CMY16GX3M4A2800C12R(XMP)	16GB ( 4x 4GB )	SS	-	-	12-14-14-36	1.65V	●	●
KINGSTON	KHX28C12T2K2/8X	8GB ( 2x 4GB )	SS	-	-	12-14-14-32	1.65V	●	●
Team	TXD38G2800HC12DBK(XMP)	32GB ( 4 x 8GB )	DS	-	-	11-14-14-35	1.65V	●	●

#### 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.

## Z97 4L

DDR3 2933 Qualified Vendors List (QVL)									
Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	DIMM socket support (Optional)	
								2 DIMM	4 DIMM
<b>AVEXIR</b>	AVD3UH29331204G-4CI(XMP)	16GB ( 4x 4GB )	SS			12-14-14-35	1.65V	●	●
<b>GEIL</b>	GPW38GB2933C12ADC(XMP)	8GB (2 x 4GB )	SS			12-14-14-36	1.65V	●	●
<b>APACER</b>	78.BAGHB.AFL0C(XMP)	8GB (2 x 4GB )	SS			12-14-14-35	1.65V	●	●
<b>A DATA</b>	AX3U2933W4G12(XMP)	16GB ( 4x 4GB )	SS			12-14-14-36	1.65V	●	●
<b>G.SKILL</b>	F3-2933C12D-8GTXDG(XMP)	8GB (2 x 4GB )	SS			12-14-14-35	1.65V	●	●
<b>G.SKILL</b>	F3-2933C12Q-16GTXDG(XMP)	16GB (4 x 4GB )	SS			12-14-14-35	1.65V	●	●
<b>CORSAIR</b>	CMY16GX3M4A2933C12R(XMP)	16GB(4 x 4GB)	SS			12-14-14-36	1.65V	●	●

## 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.

Z97 ALL SERIES

DDR3 3000 Qualified Vendors List (QVL)										
Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	DIMM socket support (Optional)		
								2 DIMM	4 DIMM	
<b>AVEXIR</b>	AVD3UH30001204G-4BZ1(XMP)	16GB ( 4x 4GB )	SS	-	-	12-14-14-35	1.65V	●	●	
<b>APACER</b>	78.BAGHN.AFL0C	16GB ( 4x 4GB )	SS			12-14-14-35	1.65V	●	●	
<b>G.SKILL</b>	F3-3000C12Q-16GTXDG(XMP)	16GB ( 4x 4GB )	SS	-	-	12-14-14-35	1.65V	●	●	
<b>G.SKILL</b>	F3-3000C12D-8GTXDG(XMP)	8GB ( 2 x 4B )	SS			12-14-14-35	1.65V	●	●	
<b>CORSAIR</b>	CMY8GX3M2A3000C12R(XMP)	8GB ( 2 x 4B )	SS			12-14-14-36	1.65V	●		

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.



## Z97 ALL SERIES

### DDR3 3100 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	DIMM socket support (Optional)	
								2 DIMM	4 DIMM
AVEXIR	AVD3UH31001204G-4CI(XMP)	16GB ( 4x 4GB )	SS	-	-	12-14-14-35	1.65V	●	●
A-DATA	AX3U3100W4G12-DMV(XMP)	8GB ( 2x 4GB )	SS	-	-	12-14-14-36	1.65V	●	●

#### 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 [blue](#) 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.

## Z97 ALL SERIES

### DDR3 3200 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	DIMM socket support (Optional)	
								2 DIMM	4 DIMM
<b>AVEXIR</b>	AVD3UH32001304G-4CI(XMP)	16GB ( 4x 4GB )	SS	-	-	13-15-15-35	1.65V	●	●
<b>G.SKILL</b>	F3-3200C12Q-16GTXDG(XMP)	16GB ( 4x 4GB )	SS	-	-	12-15-15-35	1.65V	●	●

#### 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.