

**DDR3 1333 Qualified Vendors List (QVL)**

Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	DIMM socket support (Optional)	
								1 DIMM	2 DIMM
CORSAIR	CMV8GX3M1A1333C9	8GB	DS	CORSAIR	512M8DCJGELAO401213	-	-	•	•
TEAM	TED34GM1333C9BK	4GB	DS	HYNIX	DWLDL9J5HL	9-9-9-24	1.5V	•	•
KINGSTON	KVR13N9S8/4-SP(low profile)	4GB	SS	NANYA	NT5CC512MDDN-CG	-	1.5V	•	•
KINGSTON	KVR13N9S8/4low profile)	4GB	SS	KINGSTON	D5128G028PGG8U	9-9-9-24-33	1.5V	•	•
SMART	SH5126UD325893HE	4GB	DS	SEC 343 BYKO	K4B2G08460	9-9-9-24-33	1.5V	•	•
SMART	SH5126UD325893SQ	4GB	DS	SEC 343 BYKO	K4B2G08460	9-9-9-24-33	1.5V	•	•
ASint	SLA304G08-EDJ6A	4GB	SS	ASINT	304G08-DJ6A	9-9-9-24-33	1.5V	•	•
ASint	SLA304G08-EDJ6B	4GB	SS	ASINT	304G08-DJ6B	9-9-9-24-33	1.5V	•	•
MUSHKIN	PC3-10666	4GB	SS	N/A	Heat-Sink Package	9-9-9-24	1.50V	•	•
MUSHKIN	PC3-10600	2GB	SS	SEC 410 HC15	K4W2G0846P	9-9-9-24	1.50V	•	•
Silicon Power	SP002GBLTU133S02	2GB	SS	SP	3N2083EFDE1424H	-	1.5V	•	•
G.SKILL	F3-1333C9D-16G1SL	8G	DS	N/A	Heat-Sink Package	9-9-9-24	1.35V	•	•

**DDR3 1600 Qualified Vendors List (QVL)**

Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	DIMM socket support (Optional)	
								1 DIMM	2 DIMM
CORSAIR	CMY8GX3M2A1600C9	4GB	SS	-	-	9-9-9-24	1.50V	•	•
CORSAIR	CML8GX3M2A1600C9	4GB	DS	-	-	9-9-9-24	1.50V	•	•
CORSAIR	CMZ4GX3M1A1600C9	4GB	DS	-	-	9-9-9-24	1.50V	•	•
CORSAIR	CMZ8GX3M2A1600C9	4GB	DS	-	-	9-9-9-24	1.50V	•	•
CORSAIR	CML16GX3M2A1600C10	8GB	DS	-	-	10-10-10-27	1.50V	•	•
CORSAIR	CMV8GX3M1A1600C11	8GB	DS	CORSAIR	512M8DDLGPSB0381311	-	-	•	•
CORSAIR	CMY16GX3M2A1600C9	8GB	DS	-	-	9-9-9-24	1.50V	•	•
CORSAIR	CMY32GX3M4A1600C9	8GB	DS	-	-	9-9-9-24	1.50V	•	•
CORSAIR	CMZ8GX3M1A1600C10(XMP)	8GB	DS	-	-	10-10-10-27	1.50V	•	•
KINGSTON	KVR16N11S8/4(Low Profile)	4GB	SS	KINGSTON	U317X8BRR19	-	1.50V	•	•
SANMAX	SMD-4G28N1P-16KM	4GB	SS	ELPIDA	J4208BBBG-GN-F	-	-	•	•
SANMAX	SMD-8G28NP-16KM	8GB	DS	ELPIDA	J4208BBBG-GN-F	-	1.50V	•	•
TEAM	TLD34G1600HCBK	4GB	SS	-	-	9-9-9-24	1.5V	•	•
TEAM	TED34GM1600C11BK	4GB	DS	HYNIX	DW3DJ273	-	1.5V	•	•
TEAM	TED38GM1600C11BK	8GB	DS	HYNIX	DT38J3bb4AM	11-11-11-28	1.5V	•	•
TEAM	TLD38G1600HC9BK	8GB	DS	-	-	9-9-9-24	1.5V	•	•
ADATA	ADDU1600W4G11-B	4GB	SS	ADATA	DWND-1211A	-	-	•	•
ADATA	AX3U1600W4G9-DB(XMP)	8GB ( 2x 4GB )	SS	-	-	9-9-9-24	1.5V	•	•
ADATA	AX3U1600W8G9-DB	16GB ( 2x 8GB )	DS	-	-	9-9-9-24	1.5V	•	•
ADATA	ADDU1600W8G11-B	8GB	DS	ELPIDA	J4208BBBG-GN-F	-	-	•	•
MIRAGES	KMD3U1600V4G(PC3-12/00U)	4GB	SS	-	SEC246BCKOK4B4G0846C	-	-	•	•
V-COLOR	TD4G8C11-H11	4GB	SS	HYNIX	H5TQ4G83MFR	-	-	•	•
APACER	78.BAQEJ.9LK0C ( XMP)	4GB	DS	-	-	9-9-9-27	-	•	•
GEIL	GB34GB1600C11DC ( XMP)	4GB	DS	GEIL	GL1L256M88BA15GL	-	1.5V	•	•
GEIL	GVP38GB1600C9C ( XMP)	4GB	DS	-	-	11-11-11-28	1.5V	•	•
KINGSTON	KHX1600C9D3K2/8GX ( XMP)	4GB	SS	-	-	-	1.65V	•	•
AMD	AE38G1609U1K	4GB	SS	-	-	9-9-9-28	1.5V	•	•
G.SKILL	F3-1600C11S-4GNT	4GB	SS	SEC 343 XYKO	K4B4G0846D	11-11-11-28	1.5V	•	•
SAMSUNG	M379B5273DHO-YKO 1325	4GB	DS	SEC 312 BJKO	K4B2G0846C	11-11-28-39	1.35	•	•
Transcend	TS512MLK64W6H	4GB	SS	SEC 343 XYKO	K4B4G0846D	11-11-11-28-39	1.35V	•	•
Transcend	TS1GLK64W6H	8GB	DS	SEC 343 XYKO	K4B4G0846D	11-11-28-39	1.35V	•	•
ADATA	N/A	4GB	SS	ADATA	3WCD-12IIA EL1348V	-	-	•	•
AVEXIR	AVD3U16000904G-4CI	4GB	SS	-	-	11-11-11-28-39	1.5V	•	•
AVEXIR	AVD3U16001008G-4CI	8GB	DS	-	-	11-11-11-28-39	1.5V	•	•
TEAM	TED34GM1600C11BK	4GB	DS	HYNIX	H5TQ2G83CFY	11-11-11-28	1.5V	•	•
TEAM	TLD38G1600HC9BK	8GB	DS	-	-	9-9-9-24	1.5V	•	•
KINGSTON	KHX1600C9D3/4G	4GB	DS	-	-	-	1.65V	•	•
CRUCIAL	CT102464BA160B.C16FED	8GB	DS	CRUCIAL	CT512X8-160B	-	1.50V	•	•
KINGSTON	KVR16N11S/4	4GB	SS	KINGSTON	D5128EC4BPGGBU	-	1.5V	•	•
KINGSTON	KVR16N11/4	4GB	SS	KINGSTON	D5128EC4BPGGBU	-	1.5V	•	•
MIRA	PLAF8L93B-GN2	8GB	SS	N/A	BJE159C3G-M	9-9-9-24	1.50V	•	•
ASint	SLA304G08-EGN6A	4GB	SS	ASINT	304G08-GN6A	11-11-11-28-39	1.5V	•	•
PANRAM	PUD31600C114GSPB	4GB	SS	N/A	N/A	11-11-28-39	1.5V	•	•
PANRAM	PUD31600C118GSPB	8GB	SS	DS	N/A	11-11-28-39	1.5V	•	•
VENTURA	D3-55DK1145V-11	2GB	DS	SEC 404 BCKO	K4B2G0846Q	11-11-44-28-39	1.5V	•	•
CRUCIAL	BLT4G3D1608ET3LX0.16FER2	4GB	DS	N/A	Heat-Sink Package	8-8-8-24	1.35V	•	•
G.SKILL	F3-1600C11D-16G1SL	8G	DS	ELPIDA	J4208EFBG-GNL-F	-	1.35V	•	•
KINGSTON	HX316C10F/4	4GB	SS	N/A	Heat-Sink Package	-	1.5V	•	•
KINGSTON	HX316C10F/4	8GB	DS	N/A	Heat-Sink Package	-	1.5V	•	•
TEAM	TED38G1600C11BK	8G	SS	TEAM	T3D10248HT-16	-	1.5V	•	•
AVEXIR	AVD3U16001108G-1LW	8G	DS	HYNIX	H5TQ4G83MFR	-	1.35V	•	•
AVEXIR	AVD3U16001104G-1LW	4G	SS	SEC 431 BYKO	K4B4G0846D	-	1.35V	•	•
SK HYNIX	HMT41G06BFR8A-PB NO AA	8GB	DS	SK HYNIX	H5TC4GB3BFR	11-11-28-39	1.35V	•	•
SK HYNIX	HMT451U6BFR8A-PB NO AA	4GB	SS	SK HYNIX	H5TC4GB3BFR	11-11-28-39	1.35V	•	•
VENTURA	D3 57DN114SV-11	4G	SS	SEC 422 HCKO	K4B4G0846Q	-	1.5V	•	•
CRUCIAL	BLS4G3D1609ES2LX0.16FER2	4G	DS	N/A	Heat-Sink Package	9-9-9-24	1.35V	•	•
G.SKILL	F3-12800CL9Q-16GBSR1	4G	DS	N/A	Heat-Sink Package	9-9-9-24	XMP	•	•
KINGSTON	6820986	2G	SS	NANYA	NT5CC256M16CP-DI	11-11-11-28	1.35V	•	•
MUSHKIN	PC3L-12800	4G	DS	N/A	Heat-Sink Package	9-9-9-24	XMP	•	•
TEAM	TED3L8G1600C11BK	8G	DS	TEAM	T3D5128HT-16	-	1.35V	•	•
AVEXIR	AVD3U16001108G-1BW	8G	SS	N/A	Heat-Sink Package	-	1.5V	•	•
APOTPO	L3A4G*2-16CBDA	4G	DS	APOTPO	CA32G0BE3D-13BL	-	1.35V	•	•
Silicon Power	SP004GLL TU160N01	4G	SS	NANYA	NT5CB512M8CN-DI	-	1.35V	•	•
Silicon Power	SP008GLL TU160N01	8G	DS	NANYA	NT5CB512M8CN-DI	-	1.35V	•	•
Silicon Power	SP004GLL TE160N01	4G	SS	NANYA	NT5CB512M8CN-DI	-	1.35V	•	•
Silicon Power	SP008GLL TE160N01	8G	DS	NANYA	NT5CB512M8CN-DI	-	1.35V	•	•
TEKISM	TLU1600B8G11-HYA	4G	DS	NANYA	NT5CB256M8GN-CG	9-9-9-24-33	4	•	•
GOMOS	PC3-12800	4G	DS	Apacer	AM5D5908CEHSBG	9-9-9-24-33	2	•	•
TEAM	TED3L8G1600C11BK	2G	DS	Apacer	AM5D5808APQSBG	9-9-9-24-33	4	•	•
CRUCIAL	CT25664BA160BJ	4G	DS	Asint	SLA302G08-DJ1C	9-9-9-24-33	4	•	•
TEKISM	TLU1600B8G11-HYA	8G	DS	SK HYNIX	H5TC4G83AFR	-	-	•	•
GOMOS	PC3-12800	8G	DS	N/A	5UP77D9SGQPE028	-	1.65V	•	•
TEAM	TED3L8G1600C11BK	8G	DS	TEAM	T3D5128HT-16	11-11-11-28	1.35V	•	•
CRUCIAL	CT25664BA160BJ	2G	SS	MICRON	4HE77D9PXV	-	-	•	•

**DDR3 1866 Qualified Vendors List (QVL)**

Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	DIMM socket support (Optional)	
								1 DIMM	2 DIMM
CORSAIR	CMY16GX3M2A1866C9(Ver3.24)	8GB	DS	-	-	9-10-9-27	1.50V	•	•
CORSAIR	CMY8GX3M2A1866C9	4GB	SS	-	-	9-10-9-27	1.50V	•	•
CORSAIR	CMD32GX3M4A1866C9(Ver3.24)	8GB	DS	-	-	9-10-9-27	1.50V	•	•
CORSAIR	CMY32GX3M4A1866C9	8GB	DS	-	-	9-10-9-27	1.50V	•	•
CORSAIR	CMZ16GX3M2A1866C10(Ver4.21)	8GB	DS	-	-	10-11-10-30	1.50V	•	•
AMD	AP38G1869U2K	8GB(4GBX2)	DS	-	-	9-10-9-27	1.5V	•	•
TEAM	TED34GM1866C13BK	4GB	DS	HYNIX	DW3DJ472B3	-	1.5V	•	•
TEAM	TLD34G1866HC9K9BK	4GB	DS	-	-	9-11-9-27	1.5V	•	•
TEAM	TLD38G1866HC10SBK	8GB	DS	-	-	10-11-10-30	1.5V	•	•

AMD	AP38G1869U1K(XMP)	4GB	SS	-	-	-	9-10-9-27	1.5V	•	•
KINGSTON	KHX18C9T2K2/8X	8GB ( 2x 4GB )	DS	-	-	-	9-9-9-24-33	1.65	•	•
AVEXIR	AVD3U0904G-4CI	4GB	SS	-	-	-	11-11-11-28-39	1.65V	•	•
AVEXIR	AVD3U0908G-4CI	8GB	DS	-	-	-	11-11-11-28-39	1.5V	•	•
CRUCIAL	BL58G3D18ADS3.16FED	8GB	DS	N/A	N/A	N/A	10-10-10-30	1.5V	•	•
CRUCIAL	BLE8G3D1869DE1TX0.16FED	8GB	DS	N/A	N/A	N/A	9-9-9-27	1.5V	•	•
CRUCIAL	BLT8G3D1869DT1TX0.16FED	8GB	DS	N/A	N/A	N/A	9-9-9-27	1.5V	•	•
PANRAM	PUD31866C94G2PSB	4GB	SS	N/A	N/A	N/A	9-10-9-27	1.65V	•	•
PANRAM	PUD31866C98GPSB	8GB	DS	N/A	N/A	N/A	9-10-9-27	1.65V	•	•
MUSHKIN	PC3-14900	8GB	DS	N/A	Heat-Sink Package	-	9-9-9-27	1.5V	•	•
AVEXIR	AVD3U18661108G-1LW	8G	DS	HYNIX	H5TQ4G83MFR	-	-	1.35V	•	•
AVEXIR	AVD3U18661104G-1LW	4G	SS	SEC 431 BYKO	K4B4G0846D	-	-	1.35V	•	•
MUSHKIN	PC3L-14900	8G	DS	N/A	Heat-Sink Package	-	11-11-11-27	XMP	•	•
TEAM	TLD38G1866C10SBK	8G	DS	SK HYNIX	H5TC4G83BFR	-	10-11-10-30	1.5V	•	•
KINGSTON	HX318C10F/8	8G	DS	N/A	Heat-Sink Package	-	-	1.5V	•	•

#### DDR3 2000 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	DIMM socket support (Optional)		
								1 DIMM	2 DIMM	
AVEXIR	AVD3U20000904G-4CI	4GB	SS	-	-	-	11-11-11-28-39	1.65V	•	•
AVEXIR	AVD3U20000908G-4CI	8GB	DS	-	-	-	11-11-11-28-39	1.65V	•	•

#### DDR3 2133 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	DIMM socket support (Optional)		
								1 DIMM	2 DIMM	
CORSAIR	CMY8GX3M2A2133C11R	8GB(4 x 2GB)	SS	-	-	-	11-11-11-27	1.50V	•	•
CORSAIR	CMD8GX3M2B2133C9(Ver5.12)	4GB	DS	-	-	-	9-11-11-31	1.65V	•	•
CORSAIR	CMD16GX3M2A2133C9(Ver4.21)	8GB	DS	-	-	-	9-11-11-31	1.65V	•	•
CORSAIR	CMD32GX3M4A2133C9(Ver4.21)	8GB	DS	-	-	-	9-11-11-31	1.65V	•	•
AMD	AG34G2130UI	4GB	SS	-	-	-	10-11-11-30	1.65V	•	•
AMD	AP38G2133U2K	4GB	DS	-	-	-	11-12-11-30	1.65V	•	•
TEAM	TLD34G2133HC11ABK	4GB	SS	-	-	-	11-11-11-31	1.65V	•	•
ADATA	AX3U2133W4G10-DR	8GB ( 2x 4GB )	SS	-	-	-	10-11-11-30	1.65V	•	•
KINGSTON	KHX21C11T2K2/8X	8GB ( 2x 4GB )	SS	-	-	-	11-11-11-28-39	1.6V	•	•
AVEXIR	AVD3U21330908G-4BZ1	4GB	SS	-	-	-	11-11-11-28-39	1.65V	•	•
AVEXIR	AVD3U21331104G-4CI	4GB	SS	-	-	-	11-11-11-28-39	1.5V	•	•
AVEXIR	AVD3U21330908G-4BZ1	8GB	DS	-	-	-	11-11-11-28-39	1.65V	•	•
AVEXIR	AVD3U21331108G-4CI	8GB	DS	-	-	-	11-11-11-28-39	1.5V	•	•
G.SKILL	F3-2133C10D-16GAB	8GB	DS	N/A	N/A	-	10-12-12-31	1.6V	•	•

#### DDR3 2400 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	DIMM socket support (Optional)		
								1 DIMM	2 DIMM	
CORSAIR	CMD32GX3M4A2400C10(Ver5.29)	8GB	DS	-	-	-	10-12-12-31	1.65V	•	•
CORSAIR	CMY16GX3M2A2400C10R(Ver4.2)	8GB	DS	-	-	-	10-12-12-31	1.65V	•	•
CORSAIR	CMD16GX3M2A2400C9(Ver4.21)	8GB	DS	-	-	-	10-12-12-31	1.65V	•	•
TEAM	TXD34G2400HC10QBK	4GB	DS	-	-	-	10-12-12-31	1.62V	•	•
TEAM	TXD38G2400HC10QBK	8GB	DS	-	-	-	10-12-12-31	1.62V	•	•
ADATA	AX3U2400W4G11-DMV	8GB ( 2x 4GB )	SS	-	-	-	11-13-13-35	1.65V	•	•
ADATA	AX3U2400W8G11-DMV	16GB ( 2x 8GB )	DS	-	-	-	11-13-13-35	1.65V	•	•
AVEXIR	AVD3U24001004G-4BZ1	4GB	SS	-	-	-	11-11-11-28-39	1.65V	•	•
AVEXIR	AVD3U24001104G-4CI	4GB	SS	-	-	-	11-11-11-28-39	1.65V	•	•
AVEXIR	AVD3U24001008G-4BZ1	8GB	DS	-	-	-	11-11-11-28-39	1.65V	•	•
AVEXIR	AVD3U24001108G-4CI	8GB	DS	-	-	-	11-11-11-28-39	1.65V	•	•
TEAM	TLD38G2400HC11CBK	8GB	DS	-	-	-	11-13-13-35	1.65V	•	•
G.SKILL	F3-2400C11D-8GRS	4GB	DS	N/A	N/A	-	11-11-13-31	1.65V	•	•
PANRAM	PUD32400C118G2LSK	8GB	DS	N/A	N/A	-	11-13-13-35	1.65V	•	•
TEAM	TLD38G2400C11CBK	8G	DS	SK HYNIX	H5TC4G83BFR	-	11-13-13-35	1.65V	•	•

#### DDR3 2666 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	DIMM socket support (Optional)		
								1 DIMM	2 DIMM	
CORSAIR	CMD16GX3M4A2666C10	4GB	DS	-	-	-	10-12-12-31	1.65V	•	•
TEAM	TXD38G2666HC11CBK	8GB	DS	-	-	-	11-13-13-35	1.65V	•	•
AVEXIR	AVD3U26661104G-4BZ1	4GB	SS	-	-	-	11-11-11-28-39	1.65V	•	•
AVEXIR	AVD3U26661204G-4CI	8GB	SS	-	-	-	11-11-11-28-39	1.65V	•	•
AVEXIR	AVD3U26661108G-4BZ1	8GB	DS	-	-	-	11-11-11-28-39	1.65V	•	•
AVEXIR	AVD3U26661208G-4CI	8GB	DS	-	-	-	11-11-11-28-39	1.65V	•	•

#### DDR3 2800 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	DIMM socket support (Optional)		
								1 DIMM	2 DIMM	
G.SKILL	F3-2800C12Q-32GGTXDG	8GB	DS	-	-	-	12-14-14-35	1.65V	•	•
ADATA	AX3U2800W4G12-DGV	4GB	SS	-	-	-	12-12-14-36	1.65V	•	•
ADATA	AX3U2800W8G12-DGV	8GB	DS	-	-	-	12-12-14-36	1.65V	•	•
AVEXIR	AVD3UH28001204G-4BZ1	4GB	SS	-	-	-	-	1.65V	•	•
AVEXIR	AVD3UH28001208G-4BZ1	8GB	DS	-	-	-	11-11-11-28-39	1.65V	•	•

#### DDR3 2933 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	DIMM socket support (Optional)		
								1 DIMM	2 DIMM	
G.SKILL	F3-2933C12D-16GTDXG	8GB	DS	-	-	-	12-14-14-35	1.65V	•	•
AVEXIR	AVD3UH29331204G-4BZ1	4GB	SS	-	-	-	11-11-11-28-39	1.65V	•	•
AVEXIR	AVD3UH29331208G-4BZ1	8GB	DS	-	-	-	11-11-11-28-39	1.65V	•	•

#### DDR3 3000 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	DIMM socket support (Optional)		
								1 DIMM	2 DIMM	
G.SKILL	F3-3000C12Q-16GTXDG	4GB	SS	-	-	-	-	1.65V	•	•
AVEXIR	AVD3UH31001204G-4BZ1	4GB	SS	-	-	-	11-11-11-28-39	1.65V	•	•

#### DDR3 3100 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	DIMM socket support (Optional)		
								1 DIMM	2 DIMM	
ADATA	AX3U3100W4G12-DGV	4GB	SS	-	-	-	12-14-14-36	1.65	•	•
AVEXIR	AVD3UH31001204G-2CIR	4GB	SS	-	-	-	11-11-11-28-39	1.65V	•	•
AVEXIR	AVD3UH31001204G-4BZ1	4GB	SS	-	-	-	11-11-11-28-39	1.65V	•	•
ADATA	AX3U3100W4G12-DMV	4GB	SS	N/A	N/A	-	12-14-14-36	1.65V	•	•

2 DIMM Slots

- 1 DIMM: Supports one module inserted in any slot as Single-channel memory configuration
- 2 DIMM: Supports two modules inserted into both the blue or 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.