DDR4 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	4 DIMM
SAMSUNG	M378A5143DB0--CPB	4GB	SS	SEC 428	K4A4G085WD	15-15-15-36	1.2V	●	●	●
SAMSUNG	M378A1G43DB0--CPB	8GB	DS	SEC 428 BCPB	K4A4G085WD	15-15-15-36	1.2V	●	●	●
G.SKILL	F4-2133C15Q-32GRK	8GB	DS	N/A	Heat-Sink Package	15-15-15-35	1.2V	●	●	●
KINGSTON	HX421C13PBK4/16	4GB	SS	N/A	Heat-Sink Package	15-15-15-36	1.2V	●	●	●
PANRAM	PUD42133C138G4NJW	8GB	DS	N/A	Heat-Sink Package	13-13-13-35	1.2V	●	●	
PANRAM	PUD42133C134G4NJW	4GB	SS	N/A	Heat-Sink Package	13-13-13-35	1.2V	●	●	●
CORSAIR	CMK16GX4M4A2133C15(Ver4.23)	4GB	SS	N/A	Heat-Sink Package	15-15-15-36	1.2V	●	●	●
CRUCIAL	MTA8ATF51264AZ-2G1A1	4GB	SS	MICRON	4QA77D9RCQ	15-15-15-36	1.2V	●	●	●
CORSAIR	CMV4GX4M1A2133C15	4GB	SS	N/A	4GA72Z9RGR	15-15-15-36	1.2V	●	●	
KINGSTON	HX421C14FB/8	8GB	DS	N/A	Heat-Sink Package	14-14-14-35	1.2V	●	●	
APACER	78.C1GM3.AF10B	8GB	DS	SK HYNIX	H5AN4G8NMFR	16-16-16-36	1.2V	●	●	●
KINGSTON	HX421C13SBK4/16	4GB	SS	N/A	Heat-Sink Package	15-15-15-36	1.2V	●	●	●
KINGSTON	KVR21N15D8/8	8GB	DS	SK HYNIX	H5AN4G8NAFR	15-15-15-36	1.2V	●	●	●
GALAXY	GAM4DBLBM2133D15IE041C	4GB	DS	N/A	Heat-Sink Package	15-15-15-36	1.2V	●		
GALAXY	GAM4DBLBM213315IE081C	8GB	DS	N/A	Heat-Sink Package	15-15-15-35	1.2V	●	●	
AVEXIR	AVD4U21331508G-1C0B	8GB	DS	N/A	Heat-Sink Package	15-15-15-35	1.2V	●	●	●
CORSAIR	CMK16GX4M4A2133C13（Ver5.29）	4GB	SS	N/A	Heat-Sink Package	13-15-15-28	1.2V	●	●	●
GEIL	GPR48GB2133C15DC	4GB	SS	N/A	Heat-Sink Package	15-15-15-36	1.2V	●	●	●
KINGSTON	HX421C14FBK4/32	8GB	DS	N/A	Heat-Sink Package	14-14-14-35	1.2V	●	●	●
TEKISM	T4U2133B8G15-SAD	8GB	DS	SEC 446 BCPB	K4A4G085WD	15-15-15-36	1.2V	●	●	●
G.SKILL	F4-2133C15Q-16GRB	4GB	SS	N/A	Heat-Sink Package	15-15-15-35	1.2V	●	●	●
CENTURY	PC4-17000	8GB	DS	SK HYNIX	H5AN4G8NMFR	15-15-15-36	1.2V	●	●	●
KINGSTON	KVR21N15S8/4	4GB	SS	SK HYNIX	H5AN4G8NMFR	15-15-15-36	1.2V	●	●	
ADATA	AX4U2133W4G15-QRZ	4GB	SS	N/A	Heat-Sink Package	15-15-15	1.2V	●	●	●
TEAM	TED48GM2133C15BK	8GB	DS	SK HYNIX	H5AN4G8NMFR	15-15-15-36	1.2V	●	●	●
Transcend	TS1GLH72V1H (ECC)	8GB	DS	SEC552	K4A4G085WEBCPB			●	●	●
ADATA	AD4U2133W8G15-B	8GB	DS	SK HYNIX	H5AN4G8NAFR			●	●	●
CRUCIAL	CT8G4DFD8213.16FA11	8GB	DS	MICRO	5CA77D9RGQ		1.2V	●	●	
KINGSTON	KVR21E15S8/4	4GB	SS	SK HYNIX	H5AN4G8NAFR		1.2V	●	●	
G.SKILL	F4-2133C15S-4GNT	4GB	SS	G.SKILL	D4 512M8GE15	15-15-15-35	1.2V	●	●	
G.SKILL	F4-2133C15S-8GNT	8GB	DS	G.SKILL	D4 512M8GE15	15-15-15-35	1.2V	●	●	●
TEAM	TPAD44G2133HC15BK	4GB	SS	N/A	Heat-Sink Package	15-15-15-36	1.2V	●	●	
APACER	AHU08GGB13CGT7G	8GB	DS	N/A	Heat-Sink Package			●	●	
ASINT	SLB404G08-CCN2B 1615	8GB	DS	SK HYNIX	H5AN4G8NMFR			●	●	●
PATRIOT	PSD48G21332	8GB	DS	PAIROT	PM512M8D4BU-083			●	●	
APACER	AU08GGB13CDTBGC	8GB	DS	APACER	AM6F6008THSA11550 F			●	●	
SAMSUNG	M378A1K43BB1-CPB	8GB	SS	SEC 610	K4A8G085WBBCPB			●	●	
KINGSTON	HX421C14FB2/8	8GB	SS	N/A	Heat-Sink Package		1.2V	●	●	
KINGSTON	HX421C14FBK2/8	4GB	SS	N/A	Heat-Sink Package		1.2V	●	●	●
KINGSTON	HX421C14FB/4	4GB	SS	N/A	Heat-Sink Package		1.2V	●	●	
V-COLOR	TC48G21S818-IMS	8GB	SS	V-COLOR	N/A		1.2V	●	●	
TIGO	TMKU8GF58-2133P	8GB	DS	N/A	PPE08-093TP		1.2V	●	●	●
SAMSUNG	M378A5143EB1-CPB	4GB	SS	SEC 637	E8GZ250WP	15-15-15-36	1.2V	●	●	●
SAMSUNG	M378A5143EB1-CPB	4GB	SS	SEC 607	E8K4089YC	15-15-15-36	1.2V	●	●	
TEAM	TED48G2133C15BK	8GB	SS	TEAM	T4D10248KT-21	15-15-15-36	1.2V	●	●	
ANUCELL	GRPIF1621033818594	8GB	DS	ANUCELL	P4P4GF3BLF-GMT	16-16-16-35	1.2V	●	●	●
GALAXY	GAL4AXLBM213315IE081C	8GB	SS	GALAXY	GA4L1GM88BA093H	15-15-15-35	1.2V	●	●	
TIGO	TMKU8G868-2133P	8GB	SS		PP020-093E TP	15-15-15-36	1.2V	●		
Xiede	1.2V-PC4-17000-1620	4GB	SS	MICON	6GA77D9RGQ	15-15-15-36	1.2V	●	●	
Xiede	1.2V-PC4-17000-1620	8GB	DS	SK HYNIX	H5AN4G8NMFR	15-15-15-36	1.2V	●	●	●
V-COLOR	TC48G21S815	8GB	SS	V-COLOR	TMCB134HA3	15-15-15-36	1.2V	●	●	●
V-COLOR	TC48G21S815-iMS	8GB	SS	V-COLOR	E0510	15-15-15-36	1.2V	●	●	●
SAMSUNG	M378A2K43BB1CPB	16GB	DS	SEC510	K4A8G085WBBCPB		1.2V	●	●	●
G.SKILL	F4-2133C15Q-32GRR	8GB	SS	N/A	Heat-Sink Package	15-15-15-35	1.20V	●	●	●
G.SKILL	F4-2133C15Q2-64GRR	8GB	SS	N/A	Heat-Sink Package	15-15-15-35	1.20V	●	●	●
CRUCIAL	CT16G4DFD8213.C16FAD1	16GB	DS	MICON	6NA47C9BGD		1.2V	●	●	
CRUCIAL	CT8G4DFD8213.C16FDR2	8GB	DS	MICON	6UD75C9BHB		1.2V	●	●	●
CRUCIAL	CT4G4DFS8213.C8FBD2	4GB	SS	MICON	6SB45C9BHC		1.2V	●	●	●
GEIL	GFY48GB2133C15DC	4GB	SS	N/A	Heat-Sink Package	15-15-15-36	1.2V	●	●	●
Klevv	IM48GU88N21-FFFHMB	8GB	SS	N/A	Heat-Sink Package	15-15-15	1.2V	●	●	●
Klevv	IM44GU48N21-FFFHAB	4GB	SS	N/A	Heat-Sink Package	15-15-15	1.2V	●	●	●
Klevv	IM4AGU88N21-FFFHMB	16GB	DS	N/A	Heat-Sink Package	15-15-15	1.2V	●	●	●
PATRIOT	PVE48G213C4GY	8GB	SS	N/A	Heat-Sink Package		1.2V	●	●	
GEIL	GPR432GB2133C15QC	8GB	SS	N/A	Heat-Sink Package	15-15-15-36	1.2V	●	●	●
SK HYNIX	HMA451U6AFR8N-TF	4GB	SS	SK HYNIX	H5AN4G8NAFR	15-15-15-36	1.2V	●	●	
GLOWAY	STK4U2133D15041C/ PC4-17000	4GB	SS	N/A	Heat-Sink Package	15-15-15-35	1.2V	●	●	●
G.SKILL	F4-2133C15Q-64GFX	16GB	DS	N/A	Heat-Sink Package	15-15-15-36	1.2V	●	●	●
G.SKILL	F4-2133C15Q-32GFX	8GB	SS	N/A	Heat-Sink Package	15-15-15-36	1.2V	●	●	●
G.SKILL	F4-2133C15S-8GDB	8GB	SS	G.SKILL	D4 1GM8GDDP	15-15-15-35	1.35V	●	●	●
AVANT	AVW6451U67J5213N3-SAEP	4GB	SS	SEC 549	K4A4G08	15--15-15-36	1.20V	●	●	●
AVANT	AVW641GU67J5213N2-SAEP	8GB	DS	SEC 549	K4A4G08	15--15-15-36	1.20V	●	●	●
AVANT	AVW642GU42J5213N2-SAEP	16GB	DS	SEC 549	K4A8G08	15--15-15-36	1.20V	●	●	
CRUCIAL	CT16G4DFD8213.C16FH1	16GB	DS	N/A	Heat-Sink Package	15-15-15-36	1.20V	●	●	●
ADATA	AD4U213338G15-B	8GB	SS	N/A	PP020-093E TP	15-15-15-36	1.20V	●	●	●
ADATA	AD4U2133W4G15-BP	4GB	SS	N/A	PP022-093E TP	15-15-15-36	1.20V	●	●	●
Apacer	78.B1GM3.AF00B	4GB				15-15-15-36	1.2	●	●	●
Apacer	AHU08GGB13CGT7G(EK.08G2R.KDC	8GB				15-15-15-36	1.2	●	●	
Apacer	AHU08GGB13CGU7G(EK.08G2R.GD	8GB				15-15-15-36	1.2	●	●	
Apacer	AU08GGB13CDYBGC(EL.08G2R.GD	8GB				15-15-15-36	1.2	●	●	
CENTURY MICRO INC	CD8G-D4U2133	8GB				15-15-15-36	-	●	●	●
CENTURY MICRO INC	CK8GX4-D4U2133	8GB				15-15-15-35	1.2	●	●	●
CORSAIR	CMD16GX4M4B2133C10(Ver3.20)(XMP)	4GB				10-12-12-31	1.35	●	●	●
CORSAIR	CMD16GX4M4B2133C10(Ver3.20)(XMP)	4GB				10-12-12-31	1.35	●	●	
CORSAIR	CMK16GX4M4A2133C13(Ver4.23)(XMP)	4GB				13-15-15-28	1.2	●	●	●
CORSAIR	CMK32GX4M2A2133C13(Ver4.31)(XMP)	16GB				13-15-15-28	1.2	●	●	●
CORSAIR	CMK32GX4M4A2133C13(Ver4.23)(XMP)	8GB				13-15-15-28	1.2	●	●	●
CORSAIR	CMK32GX4M4A2133C15(Ver3.20)	8GB				15-15-15-36	1.2	●	●	●

CORSAIR	CMK32GX4M4A2133C15(Ver5.29)	8GB	15-15-15-36	1.2	●	●	●
CORSAIR	CMK64GX4M8A2133C13(Ver3.20)(XMP)	8GB	13-15-15-28	1.2	●	●	●
CORSAIR	CMK64GX4M8A2133C13(Ver4.23)(XMP)	8GB	13-15-15-28	1.2	●	●	●
CORSAIR	CMV16GX4M1A2133C15	16GB	15-15-15-36	1.2	●	●	●
CORSAIR	CMV16GX4M1A2133C15	16GB	15-15-15-36	-	●	●	
CORSAIR	CMV8GX4M1A2133C15	8GB	15-15-15-36	1.2	●	●	●
crucial	CT16G4DFD8213.16FB1	16GB	15-15-15-36	1.2	●	●	●
crucial	CT4G4DFS8213.8FA2	4GB	15-15-15-36	1.2	●	●	●
crucial	CT4G4DFS8213.8FB1	4GB	15-15-15-36	1.2	●	●	●
crucial	CT8G4DFD8213.16FA1	8GB	15-15-15-37	1.2	●	●	●
crucial	CT8G4DFS8213.8FB1	8GB	15-15-15-36	1.2	●	●	●
G.SKILL	F4-2133C15Q-16GRR	4GB	15-15-15-35	1.2	●	●	●
G.SKILL	F4-2133C15Q-16GVR	4GB	15-15-15-35	1.2	●	●	●
G.SKILL	F4-2133C15Q-16GVB	4GB	15-15-15-35	1.2	●	●	●
G.SKILL	F4-2133C15Q-16GVG	4GB	15-15-15-35	1.2	●	●	●
G.SKILL	F4-2133C15Q-16GVK	4GB	15-15-15-35	1.2	●	●	●
G.SKILL	F4-2133C15Q-16GVS	4GB	15-15-15-35	1.2	●	●	●
G.SKILL	F4-2133C15Q-16GRK	4GB	15-15-15-35	1.2	●	●	●
Kingston	KVR21N15D8/8	8GB	15-15-15-37	1.2	●	●	●
G.SKILL	F4-2133C15Q2-128GVK	16GB	15-15-15-35	1.2	●	●	●
G.SKILL	F4-2133C15Q2-128GVR	16GB	15-15-15-35	1.2	●	●	●
G.SKILL	F4-2133C15Q2-64GRB	8GB	15-15-15-35	1.2	●	●	●
G.SKILL	F4-2133C15Q-32GVR	8GB	15-15-15-35	1.2	●	●	●
G.SKILL	F4-2133C15Q-32GVB	8GB	15-15-15-35	1.2	●	●	●
G.SKILL	F4-2133C15Q-32GVG	8GB	15-15-15-35	1.2	●	●	●
G.SKILL	F4-2133C15Q-32GVK	8GB	15-15-15-35	1.2	●	●	●
G.SKILL	F4-2133C15Q-32GVS	8GB	15-15-15-35	1.2	●	●	●
G.SKILL	F4-2133C15Q-32GRB	8GB	15-15-15-35	1.2	●	●	●
GelL	GPR416GB2133C15QC	4GB	15-15-15-36	1.2	●	●	●
Hyper X	HX421C13SB/4(XMP)	4GB	13-13-13-36	1.2	●	●	●
Hyper X	HX421C13SB/8(XMP)	8GB	13-13-13-36	1.2	●	●	●
Hyper X	HX421C13SBK2/16(XMP)	8GB	13-13-13-36	1.2	●	●	●
Hyper X	HX421C13SBK2/8(XMP)	4GB	13-13-13-36	1.2	●	●	●
Hyper X	HX421C13SBK4/16(XMP)	4GB	13-13-13-36	1.2	●	●	●
Hyper X	HX421C13SBK4/32(XMP)	8GB	13-13-13-36	1.2	●	●	●
Hyper X	HX421C14FB/4	4GB	14-14-14-35	1.2	●	●	●
Hyper X	HX421C14FB/8	8GB	14-14-14-35	1.2	●	●	●
Hyper X	HX421C14FB2K4/32(XMP)	8GB	14-14-14-35	1.2	●	●	●
Hyper X	HX421C14FBK2/16	8GB	14-14-14-35	1.2	●	●	●
Hyper X	HX421C14FBK2/8	4GB	14-14-14-35	1.2	●	●	●
Hyper X	HX421C14FBK4/16	4GB	14-14-14-35	1.2	●	●	●
Hyper X	HX421C14FBK4/32	8GB	14-14-14-35	1.2	●	●	●
Hyper X	HX421C14FBK4/64	16GB	15-15-15-35	1.2	●	●	●
Hyper X	HX421C14FBK8/64	8GB	14-14-14-35	1.2	●	●	●
Kingston	KVR21N15D8/16	16GB	15-15-15-36	1.2	●	●	
Kingston	KVR21N15S8/4	4GB	15-15-15-37	1.2	●	●	●
Klevv	IM44GU48N21-FFFHAB(XMP)	4GB	15-15-15-35	1.2	●	●	●
Klevv	KM4B4GX1N-2133-15-15-15-35-0	4GB	15-15-15-35	1.2	●	●	●
Klevv	KM4B4GX2N-2133-15-15-15-35-0	4GB	15-15-15-35	1.2	●	●	●
Klevv	KM4B4GX4N-2133-15-15-15-35-0	4GB	15-15-15-35	1.2	●	●	●
Klevv	IM48GU88N21-FFFHMB(XMP)	8GB	15-15-15-35	1.2	●	●	●
Klevv	KM4B8GX1N-2133-15-15-15-35-0	8GB	15-15-15-35	1.2	●	●	●
Klevv	KM4B8GX2N-2133-15-15-15-35-0	8GB	15-15-15-35	1.2	●	●	●
Klevv	KM4B8GX4N-2133-15-15-15-35-0	8GB	15-15-15-35	1.2	●	●	●
Klevv	IM4AGU88N21-FFFHMB(XMP)	16GB	15-15-15-35	1.2	●	●	●
Klevv	KM4B16X1N-2133-15-15-15-35-0	16GB	15-15-15-35	1.2	●	●	●
Klevv	KM4B16X2N-2133-15-15-15-35-0	16GB	15-15-15-35	1.2	●	●	●
Klevv	KM4B16X4N-2133-15-15-15-35-0	16GB	15-15-15-35	1.2	●	●	●
Klevv	KM4C4GX4N-2133-15-15-15-35-0	4GB	15-15-15-35	1.2	●	●	●
Klevv	KM4C4GX4N-2133-15-15-15-35-1	4GB	15-15-15-35	1.2	●	●	●
Klevv	KM4C8GX4N-2133-15-15-15-35-0	8GB	15-15-15-35	1.2	●	●	●
Klevv	KM4C8GX4N-2133-15-15-15-35-1	8GB	15-15-15-35	1.2	●	●	●
Micron	MTA16ATF1G64AZ-2G1A1	8GB	15-15-15-37	1.2	●	●	
Micron	MTA16ATF2G64AZ-2G1B1	16GB	15-15-15-36	1.2	●	●	
Micron	MTA8ATF1G64AZ-2G1B1	8GB	15-15-15-36	1.2	●	●	●
Micron	MTA8ATF51264AZ-2G1A2	4GB	15-15-15-36	-	●	●	●
panram	W4U2133PS-8G	8GB	16-16-16-36	-	●	●	●
SanMax	SMD-4G28HP-21P	4GB	15-15-15-37	-	●	●	●
SanMax	SMD-8G28HP-21P	8GB	15-15-15-37	-	●	●	●
Silicon Power	SP004GBLFU213N01	4GB	15-15-15-37	-	●	●	●
Silicon Power	SP008GBLFU213N01	8GB	15-15-15-37	-	●	●	●
SK Hynix	HMA41GU6MFR8N-TF	8GB	15-15-15-37	1.2	●	●	
SK Hynix	HMA41GU7AFR8N-TF	8GB	15-15-15-36	-	●	●	●
SK Hynix	HMA451U7AFR8N-TF	4GB	15-15-15-36	-	●	●	●
SK Hynix	HMA82GU6MFR8N-TF	16GB	15-15-15-36	-	●	●	●
SK Hynix	HMA82GU7MFR8N-TF	16GB	15-15-15-36	-	●	●	●
SUPER TALENT	FBU2B008GM	8GB	15-15-15-36	1.2	●	●	●
Team	TED416G2133C15BK	16GB	15-15-15-36	1.2	●	●	●
Team	TED464G2133C15QC01	16GB	15-15-15-36	1.2	●	●	●
Team	TPRD464G2133HC15QC01	16GB	15-15-15-36	1.2	●	●	●
Team	TPD464G2133HC15QC01	16GB	15-15-15-36	1.2	●	●	●
Team	TED432G2133C15DC01	16GB	15-15-15-36	1.2	●	●	●
Team	TPRD432G2133HC15DC01	16GB	15-15-15-36	1.2	●	●	●
Team	TPD432G2133HC15DC01	16GB	15-15-15-36	1.2	●	●	●
Team	TED44GM2133C15ABK	4GB	15-15-15-36	1.2	●	●	●
Team	TED432G2133C15QC01	8GB	15-15-15-36	1.2	●	●	●
Team	TPRD432G2133HC15QC01	8GB	15-15-15-36	1.2	●	●	●
Team	TPD432G2133HC15QC01	8GB	15-15-15-36	1.2	●	●	●
Team	TED416G2133C15DC01	8GB	15-15-15-36	1.2	●	●	●
Team	TPRD416G2133HC15DC01	8GB	15-15-15-36	1.2	●	●	●
Team	TPD416G2133HC15DC01	8GB	15-15-15-36	1.2	●	●	●
UMAX	84G44G93MC-21OMCALGF15	4GB	15-15-15-36	-	●	●	●

UMAX	84G48G93MC-21OMCGNGF15	8GB				15-15-15-36	-	●	●	●
Ramsta	R2DD4N04G2133	4GB	SS	Micron	8	15-15-15-35	1.20V	●	●	●
Ramsta	R2DD4N08G2133	8GB	SS	Micron	8	15-15-15-36	1.20V	●	●	●

DDR4 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	4 DIMM
ADATA	AX4U2400W8G16-DRZ	8GB	DS	N/A	Heat-Sink Package	16-16-16	1.2V	●	●	●
G.SKILL	F4-2400C15Q-32GRB	8GB	DS	N/A	Heat-Sink Package	15-15-15-35	1.2V	●	●	●
PATRIOT	PX416G240C5QK	4GB	SS	N/A	Heat-Sink Package	15-15-15-35	1.2V	●	●	●
GLOWAY	PC4-19200	4GB	DS	N/A	Heat-Sink Package	16-16-16-35	1.2V	●		
PANRAM	PUD42400C154G4NJW	4GB	SS	N/A	Heat-Sink Package	15-15-15-35	1.2V	●	●	
PANRAM	PUD42400C158G4NJW	8GB	DS	N/A	Heat-Sink Package	15-15-15-35	1.2V	●	●	
CRUCIAL	BLS4K4G4D240FSA	4GB	SS	N/A	Heat-Sink Package	16-16-16-39	1.2V	●	●	
ADATA	AX4U2400W4G16-DRZ	4GB	SS	N/A	Heat-Sink Package	16-16-16	1.2V	●	●	
GEIL	GPR416GB2400C15QC	4GB	SS	N/A	Heat-Sink Package	15-15-15-35	1.2V	●	●	●
MUSHKIN	997199F	8GB	DS	N/A	Heat-Sink Package	15-15-15-35-50	1.2V	●	●	●
KINGSTON	HX424C15FBK4/32	8GB	DS	N/A	Heat-Sink Package	15-15-15-35-56	1.2V	●	●	
APACER	78.C1GMA.AF30B	8G	DS	SK HYNIX	H5AN4G8NMFR	16-16-16-36	1.2V	●	●	●
PNY	MD16GK2D4240015AB	8GB	DS	N/A	Heat-Sink Package		1.2V	●	●	●
V-COLOR	TD8G16C16-UHK	8GB	DS	N/A	Heat-Sink Package	16-16-16-35	1.2V	●	●	●
G.SKILL	F4-2400C15D-169GVR	8GB	DS	N/A	Heat-Sink Package	15-15-15-35	1.2V	●	●	●
APACER	AHU08GGB24CDT7G	8GB	DS	N/A	Heat-Sink Package	16-16-16-36		●	●	●
CORSAIR	CM4X8GE2400C14K4-CN（Ver4.24）	8GB	DS	N/A	Heat-Sink Package	14-16-16-31	1.2V	●	●	
CORSAIR	CMK8GX4M1A2400C14(Ver3.20)	8GB	DS	N/A	Heat-Sink Package	14-16-16-31	1.2V	●	●	
PATRIOT	PV416G240C5QK	4GB	SS	N/A	Heat-Sink Package	15-15-15-35	1.2V	●	●	●
PATRIOT	PSD44G240081	4GB	SS	PAIROT	PM512M8D4BU-083			●	●	
APACER	78.B1GMA.AF20B	4GB	SS	SK HYNIX	H5AN4G8NMFR	16-16-16-36	1.2V	●	●	
KINGSTON	HX424C15FBK4/16	4GB	SS	N/A	Heat-Sink Package		1.2V	●	●	●
G.SKILL	F4-2400C14Q2-128GRK	16GB	DS	N/A	Heat-Sink Package	14-14-14-34	1.2V	●		
G.SKILL	F4-2400C14Q-16GRK	4GB	SS	N/A	Heat-Sink Package	14-14-14-34	1.2V	●	●	●
G.SKILL	F4-2400C15Q-16GRR	4GB	SS	N/A	Heat-Sink Package	15-15-15-35	1.2V	●	●	●
AVEXIR	AVD4UZ124001608G-4COR	8GB	DS	N/A	Heat-Sink Package		1.2V	●	●	
AVEXIR	AVD4UZ124001604G-4COB	4GB	SS	N/A	Heat-Sink Package		1.2V	●	●	●
CRUCIAL	BLS8G4D240FSA.16FADG	8GB	DS	N/A	Heat-Sink Package	16-16-16-39	1.2V	●	●	
TEAM	TED48G2400C16BK	8GB	DS	TEAM	T4D5128HT-24	16-16-16-39	1.2V	●	●	
KINGSTON	HX424C12PBK4/32	8GB	DS	N/A	Heat-Sink Package		1.35V	●	●	●
G.SKILL	F4-2400C15Q-32GRR	8GB	DS	N/A	Heat-Sink Package	15-15-15-35	1.2V	●	●	●
PATRIOT	PSD48G240002	8GB	DS	PAIROT	1621JB5454512X8DDR			●		
GALAXY	GAL4AXLBM2400D16JE081C	8GB	SS	GALAXY	GA4L1GM88BA093H		1.2V	●	●	●
GEIL	DDR48GB2400C16QC	8GB	SS	GEIL	1GX8DDR4 HL 1612	16-16-16-36	1.2V	●	●	
CORSAIR	CM4X8GE2400C16K4-CN（Ver5.20）	8GB	DS	N/A	Heat-Sink Package	16-16-16-39	1.2V	●	●	●
LEORICE	DDR4/2400MHZ/CL15/1.2V	8GB	SS	N/A	Heat-Sink Package		1.2V	●	●	●
CORSAIR	CMD32GX4M4A2400C14（Ver4.23）	8GB	DS	N/A	Heat-Sink Package	14-16-16-31	1.2V	●	●	●
AMD	R748G2400U2S	8GB	DS	N/A	Heat-Sink Package	15-15-15-36	1.2V	●	●	●
MICRON	MTA16ATF2G64AZ-2G3B1	16GB	DS	MICRON	5WB47D9TBH			●	●	●
MICRON	MTA8ATF1G64AZ-2G3B1	8GB	SS	MICRON	5WB47D9TBH	17-17-17-39-55	1.2V	●	●	●
KINGSTON	HX424C12SB2K4/16	4GB	SS	N/A	Heat-Sink Package		1.35V	●	●	
KINGSTON	HX424C12SB2K4/32	8GB	DS	N/A	Heat-Sink Package		1.35V	●	●	●
KINGSTON	HX424C15FBK2/16	8GB	DS	N/A	Heat-Sink Package		1.2V	●	●	●
GALAXY	GAM4BXLBS240016JE164C	4GB	SS	N/A	Heat-Sink Package	16-16-16-36	1.2V	●	●	●
APACER	AH08GGB24CDT5H	8GB	DS	N/A	Heat-Sink Package	16-16-16-36		●	●	●
CORSAIR	CMK8GX4M2A2400C14(Ver3.28)	4GB	SS	N/A	Heat-Sink Package	14-16-16-31	1.2V	●	●	●
CORSAIR	CMK16GX4M2A2400C14	8GB	DS	N/A	Heat-Sink Package	14-16-16-31	1.2V	●	●	●
AVEXIR	AVD4UZ124001608G-1COB	8GB	DS	N/A	Heat-Sink Package		1.2V	●	●	●
AVEXIR	AVD4U24001608G-1BW	8GB	DS	N/A	512X8DDR4		1.2V	●	●	●
APACER	AU08GGB24CETBGC	8GB	DS	APACER	AM6F6008OTHSB2155 0F			●	●	●
AVEXIR	AVD4UZ124001608G-2COR	8GB	DS	N/A	Heat-Sink Package		1.2V	●	●	●
V-COLOR	8GTC48G24S817-IMS	8GB	SS	V-COLOR	N/A		1.2V	●	●	●
CORSAIR	CMD32GX4M4A2400C12（Ver5.20）	8GB	DS	N/A	Heat-Sink Package		1.2V	●	●	●
G.SKILL	F4-2400C15Q-64GIS	16GB	DS	N/A	Heat-Sink Package		1.2V	●	●	●
G.SKILL	F4-2400C15Q-32GNT	8GB	SS	G.SKILL	D4 1GM8GE15		1.2V	●	●	
CRUCIAL	BLS8G4D24OFSB.16FARG	8GB	DS	N/A	Heat-Sink Package		1.2V	●	●	
GEIL	GLW416GB2400C15DC	8GB	SS	N/A	Heat-Sink Package	15-15-15-35	1.2V	●	●	●
TEAM	TDTRD48G2400HC15ABK	8GB	SS	N/A	Heat-Sink Package	15-15-15-35	1.2V	●	●	●
TEAM	TDRED48G2400HC14BK	8GB	DS	N/A	Heat-Sink Package	14-16-16-31	1.2V	●	●	
GEIL	GRP416GB2400C16DC	8GB	SS	N/A	Heat-Sink Package	16-16-16-36	1.2V	●	●	●
ADATA	AX4U2400W8G16-BRZ	8GB	DS	N/A	Heat-Sink Package	16-16-16	1.2V	●	●	●
KINGSTON	HX424C15FB/16	16GB	DS	N/A	Heat-Sink Package		1.2V	●	●	
CRUCIAL	BLS8G4D240FSC.16FARG	8GB	DS	N/A	Heat-Sink Package	16-16-16-39	1.2V	●	●	●
CORSAIR	CMK32GX4M2A2400C14(Ver3.31)	16GB	DS	N/A	Heat-Sink Package	14-16-16-31	1.2V	●	●	●
GALAXY	GAM4HFL1BM2400D15IE08IC	8G	DS	N/A	Heat-Sink Package		1.2V	●	●	
CORSAIR	CMK32GX4M4A2400C16R(Ver3.31)	8GB	SS	N/A	Heat-Sink Package	16-16-16-39	1.2V	●	●	●
CORSAIR	CMD16GX4M4B2400C10	4GB	SS	N/A	Heat-Sink Package	10-12-12-28	1.35V	●	●	●
MUSHKIN	997199T	8GB	SS	N/A	Heat-Sink Package	15-15-15-35	1.2V	●	●	●
GEIL	8G2133C151.2V	8GB	DS	GEIL	512X8DDR4Y		1.2V	●	●	●
TEAM	TCD44G2400C14BK	4GB	SS	Skhymix	H5AN4G8NAFR	14-16-16-31	1.2V	●	●	●
TIGO	TMKU8GF28-2400U	8GB	DS	N/A	Heat-Sink Package		1.2V	●	●	●
APACER	AU08GGB24CEYBGC	8GB	SS	APACER	AM6F6308MHHSB2	17-17-17-39	1.2V	●	●	
KINGSTON	HX424C12SB2K2/16	16GB	DS	N/A	Heat-Sink Package		1.35V	●	●	●
KINGSTON	KVR24N17D8/8-SP	8GB	DS	N/A	Heat-Sink Package		1.2V	●		
GLOWAY	PC4-19200	8GB	SS	N/A	M15B302062	15-15-15-35	1.2V	●	●	●
ADATA	AX4U240038G16-BWZ	8GB	SS	N/A	Heat-Sink Package	17-16-16-39	1.2V	●	●	●
ADATA	AX4U2400316G16-SBF	16G	DS	N/A	Heat-Sink Package	17-16-16-39	1.2V	●	●	●
AVEXIR	AVD4UZ124001608G-4COR	8GB	SS	N/A	Heat-Sink Package	16-16-16-36	1.2V	●		
AVEXIR	AVD4UZ124001604G-4COR	4GB	SS	N/A	Heat-Sink Package	16-16-16-36	1.2V	●	●	●
KINGSTON	TF24D4U7S8MB-8	8GB	SS	MICON	6SB77D9TBH	17-17-17-39	1.2V	●	●	
KINGSTON	TF24D4U7S1MBD-2	2GB	SS	MICON	6GB77D9TGQ	17-17-17-39	1.2V	●	●	●
KINGSTON	TF24D4U7S8MBD-4	4GB	SS	MICON	6QB77D9TGG	17-17-17-39	1.2V	●	●	
RAMAXEL	RMUA5120MB86H9F-2400	4GB	SS	MICON	6RB77D9TBK	17-17-17-39	1.2V	●	●	●
RAMAXEL	RMUA5120MB76H8F-2400	2GB	SS	MICON	6GB77D9TGQ	17-17-17-39	1.2V	●	●	●
V-COLOR	TC48G24S817	8GB	SS	V-COLOR	TMC9486G2	17-17-17-39	1.2V	●	●	●
ADATA	AX4U240038G16-SBF	8GB	SS	N/A	Heat-Sink Package	17-17-17-39	1.2V	●	●	●
ADATA	AX4U2400W8G16-DRD	8GB	DS	N/A	Heat-Sink Package	17-17-17-39	1.2V	●	●	●
ADATA	AX4U2400316G16-DRD	16GB	DS	N/A	Heat-Sink Package	17-17-17-39	1.2V	●	●	●

G.SKILL	F4-2400C15Q2-64GRK	8GB	SS	N/A	Heat-Sink Package	15-15-15-35	1.2V	●	●	●
TEAM	TCD48G2400C14BK	8GB	SS	TEAM	T4D10248MT-24	14-16-16-31	1.2V	●	●	●
CRUCIAL	BLS16G4D240FSE.16FAD	16GB	DS	N/A	Heat-Sink Package	16-16-16-39	1.2V	●	●	●
CRUCIAL	BLS4G4D240FSA.8FARG	4GB	SS	N/A	Heat-Sink Package	16-16-16-39	1.2V	●	●	
PATRIOT	PV48G240C5	8GB	DS	N/A	Heat-Sink Package		1.2V	●	●	●
TEAM	TFWD416G2400C15BBK	16GB	DS	TEAM	PP020-093E TP	15-17-17-35	1.2V	●	●	●
TEAM	TFRD48G2400C15ABK	8GB	SS	TEAM	T4D10248HT-24	15-15-15-35	1.2V	●	●	
TEAM	TFRD44G2400C15ABK	4GB	SS	TEAM	T4D5128HT-24	15-15-15-35	1.2V	●	●	●
Klevv	IM44GU48N24-FFFHAZ	4GB	SS	N/A	Heat-Sink Package	15-15-15	1.2V	●	●	●
Klevv	IM4AGU88N24-FFFHMZ	16GB	DS	N/A	Heat-Sink Package	15-15-15	1.2V	●	●	
Klevv	IM48GU88N24-FFFHMZ	8GB	SS	N/A	Heat-Sink Package	15-15-15	1.2V	●	●	●
Klevv	IM4AGU88N24-FFFHMB	16GB	DS	N/A	Heat-Sink Package	15-15-15	1.2V	●	●	●
Klevv	IM48GU88N24-FFFHMB	8GB	SS	N/A	Heat-Sink Package	15-15-15	1.2V	●	●	●
Klevv	IM44GU48N24-FFFHAB	4GB	SS	N/A	Heat-Sink Package	15-15-15	1.2V	●	●	
GEIL	GPR432GB2400C16QC	8GB	SS	N/A	Heat-Sink Package	16-16-16-36	1.2V	●	●	●
G.SKILL	F4-2400C15D-16GTZR	8GB	SS	N/A	Heat-Sink Package	15-15-15-35	1.2V	●	●	●
CRUCIAL	MTA16ATF1G64AZ-2G3A2	8GB	DS	MICON	5VA77D9RGG	17-17-17-39	1.2V	●	●	
Kingston	KVR24N17S8/8	8GB	SS	N/A	Heat-Sink Package	17-17-17-39	1.2V	●	●	●
G.SKILL	F4-2400C15Q-64GFX	16GB	DS	N/A	Heat-Sink Package	15-15-15-39	1.20V	●	●	●
G.SKILL	F4-2400C15Q-32GFX	8GB	SS	N/A	Heat-Sink Package	15-15-15-39	1.20V	●	●	●
G.SKILL	F4-2400C16Q-64GFX	16GB	DS	N/A	Heat-Sink Package	16-16-16-39	1.20V	●	●	●
G.SKILL	F4-2400C16Q-32GFX	8GB	SS	N/A	Heat-Sink Package	16-16-16-39	1.20V	●	●	●
CORSAIR	CMK16GX4M2Z2400C16(Ver3.31)	8GB	SS	N/A	Heat-Sink Package	16-16-16-18	1.20V	●	●	
CORSAIR	CMK128GX4M8A2400C14(Ver5.30)	16GB	DS	N/A	Heat-Sink Package	14-16-16-31	1.20V	●	●	●
SAMSUNG	M378A5244CB0--CRC	4GB	SS	SEC 704	K4A8G16 5WC BCRC	17-17-17-39	1.20V	●	●	
CORSAIR	CMK128GX4M8A2400C14(Ver5.30)	16GB	DS	N/A	Heat-Sink Package	14-16-16-31	1.20V	●	●	●
CORSAIR	CMK16GX4M2Z2400C16(Ver3.31)	8GB	SS	N/A	Heat-Sink Package	16-16-16-39	1.20V	●	●	
GelL	GFR416GB2400C16S	16GB	SS	N/A	Heat-Sink Package	16-16-16-36	1.20V	●	●	
GelL	GFR432GB2400C16D	16GB	SS	N/A	Heat-Sink Package	16-16-16-36	1.20V	●	●	●
HyperX	HX424C15FB2K4/32	8GB	SS	N/A	Heat-Sink Package	15-15-15-35	1.20V	●	●	●
GLOWAY	STK4U2400D17081C	8GB	DS	N/A	Heat-Sink Package	17-17-17-39	1.20V	●	●	●
GLOWAY	STK4U2400D17081C	8GB	SS	N/A	Heat-Sink Package	17-17-17-39	1.20V	●	●	●
GLOWAY	STK4U2400D17161C	16GB	SS	N/A	Heat-Sink Package	17-17-17-39	1.20V	●		
PATRIOT	PSD48G240081	8GB	SS	SEC 710	K4A8G08	17-17-17-39	1.20V	●	●	●
PATRIOT	PSD44G240081	4GB	SS	SEC 707	K4A4G08	16-16-16-39	1.20V	●	●	●
PATRIOT	PSD416G24002	16GB	DS	SEC 707	K4A8G08	17-17-17-39	1.20V	●	●	●
PATRIOT	PV432G240C5QK	8GB	SS	N/A	Heat-Sink Package	15-15-15-35	1.20V	●	●	●
PATRIOT	PVE48G240C5KRD	4GB	SS	N/A	Heat-Sink Package	15-15-15-35	1.20V	●	●	●
PATRIOT	PVE416G240C5KBL	8GB	SS	N/A	Heat-Sink Package	15-15-15-35	1.20V	●	●	●
SAMSUNG	M378A2K43CB1-CRC	16GB	DS	SEC 719	K4A8G08	17-17-17-39	1.20V	●	●	●
Crucial	CT8G4DFS824A.C8FBD1	8GB	SS	MICRON	6VB47 C9BGM	17-17-17-39	1.20V	●	●	●
ADATA	AD4X240038G17-BP	8GB	SS	N/A	PP019-083E	17-17-17-39	1.20V	●	●	●
APACER	AHU08GGB24CDU7S	8GB	SS	N/A	Heat-Sink Package	16-16-16-36	1.20V	●	●	
Crucial	BLS8G4D240FSC.16FBR2	8GB	DS	MICRON	Heat-Sink Package	16-16-16-39	1.20V	●	●	●
Asgard	VML41UG-MIC1U22ZG	8GB	SS	MICRON	Heat-Sink Package	17-17-17-39	1.20V	●	●	●
KINGMAX	GLLF62F-DAKZIG CLBU	4GB	SS	N/A	PS029-D93 TP	17-17-17-39	1.20V	●	●	●
KINGMAX	GLLH22F-18KIIA CFBU2	16GB	DS	N/A	PS023-D93 TP	17-17-17-39	1.20V	●	●	●
KINGMAX	GLLG42F-D8KBIA CFDU	8GB	DS	KINGMAX	KGD8CB-CU	17-17-17-39	1.20V	●	●	
GEIL	GP44GB2400C16SC	4GB	SS	MICRON	CG4L512M88BA093FH	17-16-16-36	1.20V	●	●	
Kingston	KVR24N17S8/4	4GB	SS	MICRON	7CB75	17-17-17-39	1.20V	●	●	
CRUCIAL	BLS16G4D240FSC.16FBR	16G	DS	MICRON	Heat-Sink Package	16-16-16-39	1.20V	●	●	●
CRUCIAL	BLS8G4D240FSCK.8FBD	8GB	SS	MICRON	Heat-Sink Package	16-16-16-39	1.20V	●	●	●
CRUCIAL	CT8G4DFD824A.C16FBD2	8GB	DS	MICRON	Heat-Sink Package	17-17-17-39	1.20V	●	●	●
CRUCIAL	CT16G4DFD824A.C16FHD1	16GB	DS	MICRON	Heat-Sink Package	17-17-17-39	1.20V	●	●	●
ADATA	AX4U240038G16-BRZ	8GB	SS	MICRON	Heat-Sink Package	17-16-16-39	1.20V	●	●	●
G.SKILL	F4-2400C15S-8GNT	8GB	SS	G.SKILL	D4 1GM8GE15	15-15-15-35	1.20V	●	●	●
ADATA	AD4U2400W4G17-B	4GB				15-15-15-35	1.2	●	●	
ADATA	AD4U2400W8G17-B	8GB				15-15-15-35	1.2	●	●	
ADATA	AX4U2400316G16-DRD(XMP)	16GB				16-16-16-39	1.2	●	●	
ADATA	AX4U2400316G16-SBF(XMP)	16GB				16-16-16-36	1.2	●	●	
ADATA	AX4U240038G16-BRS-R(XMP)	8GB				16-16-16-39	1.2	●	●	
ADATA	AX4U240038G16-SBF(XMP)	8GB				16-16-16-39	1.2	●	●	
ADATA	AX4U2400W8G16-BRZ(XMP)	8GB				16-16-16-39	1.2	●	●	
ADATA	AX4U2400W8G16-DRD(XMP)	8GB				16-16-16-39	1.2	●	●	
Apacer	78.B1GMS.4050B	4GB				17-17-17-39	-	●	●	
Apacer	78.C1GMS.4010B	8GB				17-17-17-39	-	●	●	●
Apacer	EK.08G2T.GEC(XMP)	8GB				16-16-16-36	-	●	●	
Apacer	AU08GGB24CEYBGC(EL.08G2T.GFM	8GB				17-17-17-39	1.2	●	●	
Apacer	AHU08GGB24CDT7G(EK.08G2T.KEC	8GB				16-16-16-36	1.2	●	●	
Apacer	AHU08GGB24CDU7G(EK.08G2T.GEC	8GB				16-16-16-36	1.2	●	●	
Apacer	AHU08GGB24CDU6H(EK.16GAT.GEA	8GB				16-16-16-36	1.2	●	●	
Apacer	AHU08GGB24CDU5H(EK.16GAT.GEB	8GB				16-16-16-36	1.2	●	●	
CORSAIR	CMD16GX4M4A2400C14(Ver4.23)(XM	4GB				14-16-16-31	1.2	●	●	●
CORSAIR	CMD32GX4M4A2400C14(Ver4.23)(XM	8GB				14-16-16-31	1.2	●	●	●
CORSAIR	CMK128GX4M8A2400C14(Ver5.30)(XMP)	16GB				14-16-16-31	1.2	●	●	●
CORSAIR	CMK16GX4M2A2400C16(Ver3.31)(XM	8GB				16-16-16-39	1.2	●	●	
CORSAIR	CMK16GX4M4A2400C14(Ver4.23)(XM	4GB				14-16-16-31	1.2	●	●	●
CORSAIR	CMK32GX4M4A2400C14(Ver4.23)(XM	8GB				14-16-16-31	1.2	●	●	●
CORSAIR	CMK32GX4M4A2400C16(Ver3.31)(XM	8GB				16-16-16-39	1.2	●	●	●
CORSAIR	CMK64GX4M4A2400C14(Ver3.31)(XM	16GB				14-16-16-31	1.2	●	●	●
CORSAIR	CMK64GX4M4A2400C14(Ver4.31)(XM	16GB				14-16-16-31	1.2	●	●	●
crucial	BLS16G4D240FSB.16FBD(XMP)	16GB				16-16-16-39	1.2	●	●	
crucial	BLS4G4D240FSB.8FBD(XMP)	4GB				16-16-16-39	1.2	●	●	
crucial	BLS8G4D240FSBK.8FBD(XMP)	8GB				16-16-16-39	1.2	●	●	
crucial	CT16G4DFD824A.16FB1	16GB				17-17-17-39	1.2	●	●	
crucial	CT16G4DFD824A.C16FDR1	16GB				17-17-17-39	1.2	●	●	
crucial	CT8G4DFS824A.8FB1	8GB				17-17-17-39	1.2	●	●	
G.SKILL	F4-2400C14Q2-128GRK(XMP)	16GB				14-14-14-34	1.2	●	●	●
G.SKILL	F4-2400C15Q-16GRR(XMP)	4GB				15-15-15-35	1.2	●	●	●
G.SKILL	F4-2400C15Q-16GVR	4GB				15-15-15-35	1.2	●	●	●
G.SKILL	F4-2400C15Q-16GVB	4GB				15-15-15-35	1.2	●	●	●
G.SKILL	F4-2400C15Q-16GVG	4GB				15-15-15-35	1.2	●	●	●
G.SKILL	F4-2400C15Q-16GVK	4GB				15-15-15-35	1.2	●	●	●
G.SKILL	F4-2400C15Q-16GVS	4GB				15-15-15-35	1.2	●	●	●

G.SKILL	F4-2400C15Q-16GRK	4GB	15-15-15-35	1.2	●	●	●	
G.SKILL	F4-2400C15Q-16GRB	4GB	15-15-15-35	1.2	●	●	●	
G.SKILL	F4-2400C15Q2-128GRK(XMP)	16GB	15-15-15-35	1.2	●	●	●	
G.SKILL	F4-2400C15Q2-128GVK(XMP)	16GB	15-15-15-35	1.2	●	●	●	
G.SKILL	F4-2400C15Q2-128GVR	16GB	15-15-15-35	1.2	●	●	●	
G.SKILL	F4-2400C15Q2-64GRK(XMP)	8GB	15-15-15-35	1.2	●	●	●	
G.SKILL	F4-2400C15Q-32GRR(XMP)	8GB	15-15-15-35	1.2	●	●	●	
G.SKILL	F4-2400C15Q-32GVR	8GB	15-15-15-35	1.2	●	●	●	
G.SKILL	F4-2400C15Q-32GVB	8GB	15-15-15-35	1.2	●	●	●	
G.SKILL	F4-2400C15Q-32GVG	8GB	15-15-15-35	1.2	●	●	●	
G.SKILL	F4-2400C15Q-32GVK	8GB	15-15-15-35	1.2	●	●	●	
G.SKILL	F4-2400C15Q-32GVS	8GB	15-15-15-35	1.2	●	●	●	
G.SKILL	F4-2400C15Q-32GRK	8GB	15-15-15-35	1.2	●	●	●	
GeIL	GFR416GB2400C16S(XMP)	16GB	16-16-16-36	1.2	●	●		
GeIL	GFR432GB2400C16D(XMP)	16GB	16-16-16-36	1.2	●	●		
GeIL	GLR464GB2400C14QC(XMP)	16GB	14-14-14-35	1.2	●	●	●	
GeIL	GPR416GB2400C15QC(XMP)	4GB	15-15-15-35	1.2	●	●		
GeIL	GPR432GB2400C15QC(XMP)	8GB	15-15-15-35	1.2	●	●	●	
GeIL	GPR432GB2400C16QC(XMP)	8GB	16-16-16-36	1.2	●	●	●	
Hyper X	HX424C12PB2K4/16(XMP)	4GB	12-13-13-35	1.2	●	●	●	
Hyper X	HX424C12SB2/4(XMP)	4GB	12-14-14-35	1.35	●	●	●	
Hyper X	HX424C12SB2/8(XMP)	8GB	12-14-14-35	1.35	●	●		
Hyper X	HX424C12SB2K2/16(XMP)	8GB	12-14-14-35	1.35	●	●	●	
Hyper X	HX424C12SB2K2/16(XMP)	8GB	12-14-14-35	1.35	●	●		
Hyper X	HX424C12SB2K4/16(XMP)	4GB	12-14-14-35	1.35	●	●	●	
Hyper X	HX424C12SB2K4/32(XMP)	8GB	12-14-14-35	1.35	●	●	●	
Hyper X	HX424C12SB2K4/32(XMP)	8GB	12-14-14-35	1.35	●	●		
Hyper X	HX424C15B2K4/32(XMP)	8GB	15-15-15-35	1.2	●	●	●	
Hyper X	HX424C15FB/4	4GB	15-15-5-35	1.2	●	●		
Hyper X	HX424C15FB/8(XMP)	8GB	15-15-15-35	1.2	●	●		
Hyper X	HX424C15FB/8(XMP)	8GB	15-15-15-35	1.2	●	●		
Hyper X	HX424C15FBK2/16	16GB	15-15-15-35	1.2	●	●		
Hyper X	HX424C15FBK2/8	4GB	15-15-5-35	1.2	●	●		
Hyper X	HX424C15FBK4/16	4GB	15-15-5-35	1.2	●	●	●	
Hyper X	HX424C15FBK4/16	4GB	15-15-15-35	1.2	●	●	●	
Hyper X	HX424C15FBK4/32	8GB	15-15-15-35	1.2	●	●		
Hyper X	HX424C15FBK4/64	16GB	15-15-15-35	1.2	●	●	●	
J&A	AD4U24001716-16M	16GB	17-17-17-39	-	●	●		
J&A	JAD4U24001708-04M	4GB	17-17-17-39	-	●	●		
J&A	JAD4U24001708-08M	8GB	17-17-17-39	-	●	●		
KINGMAX	GLLF62F-DAKZIG-CLBU	4GB	17-17-17-39	-	●	●		
KINGMAX	GLLH22F-18KIIA-CFBU2	16GB	17-17-17-39	-	●	●		
Kingston	KVR24N17D8/16	16GB	17-17-17-39	1.2	●	●		
Kingston	KVR24N17D8/8	8GB	17-17-17-39	1.2	●	●		
Klevv	IM44GU48N24-FFFHAB(XMP)	4GB	15-15-15-35	1.2	●	●		
Klevv	KM4B4GX1N-2133-15-15-15-35-0	4GB	15-15-15-35	1.2	●	●		
Klevv	KM4B4GX2N-2133-15-15-15-35-0	4GB	15-15-15-35	1.2	●	●		
Klevv	KM4B4GX4N-2133-15-15-15-35-0	4GB	15-15-15-35	1.2	●	●		
Klevv	IM44GU48N24-FFFHAZ(XMP)	4GB	15-15-15-35	1.2	●	●		
Klevv	KM4Z4GX1N-2400-15-15-15-35-1	4GB	15-15-15-35	1.2	●	●		
Klevv	KM4Z4GX2N-2400-15-15-15-35-1	4GB	15-15-15-35	1.2	●	●		
Klevv	KM4Z4GX4N-2400-15-15-15-35-1	4GB	15-15-15-35	1.2	●	●		
Klevv	IM48GU88N24-FFFHMB(XMP)	8GB	15-15-15-35	1.2	●	●		
Klevv	KM4B8GX1N-2400-15-15-15-35-0	8GB	15-15-15-35	1.2	●	●		
Klevv	KM4B8GX2N-2400-15-15-15-35-0	8GB	15-15-15-35	1.2	●	●		
Klevv	KM4B8GX4N-2400-15-15-15-35-0	8GB	15-15-15-35	1.2	●	●		
Klevv	IM48GU88N24-FFFHMZ(XMP)	8GB	15-15-15-35	1.2	●	●		
Klevv	KM4Z8GX1N-2400-15-15-15-35-1	8GB	15-15-15-35	1.2	●	●		
Klevv	KM4Z8GX2N-2400-15-15-15-35-1	8GB	15-15-15-35	1.2	●	●		
Klevv	KM4Z8GX4N-2400-15-15-15-35-1	8GB	15-15-15-35	1.2	●	●		
Klevv	IM4AGU88N24-FFFHMB(XMP)	16GB	15-15-15-35	1.2	●	●		
Klevv	KM4B16X1N-2133-15-15-15-35-0	16GB	15-15-15-35	1.2	●	●		
Klevv	KM4B16X2N-2133-15-15-15-35-0	16GB	15-15-15-35	1.2	●	●		
Klevv	IM4AGU88N24-FFFHMZ(XMP)	16GB	15-15-15-35	1.2	●	●		
Klevv	KM4Z16X1N-2400-15-15-15-35-0	16GB	15-15-15-35	1.2	●	●		
Klevv	KM4Z16X2N-2400-15-15-15-35-0	16GB	15-15-15-35	1.2	●	●		
Klevv	KM4Z16X4N-2400-15-15-15-35-0	16GB	15-15-15-35	1.2	●	●		
panram	W4U2400PS-8G	8GB	14-14-14-31	-	●	●		
PATRIOT	PSD48G240082	8GB	17-17-17-39	1.2	●	●		
PATRIOT	PV432G240C5QK(XMP)	8GB	15-15-15-35	1.2	●	●	●	
PATRIOT	PVE416G240C5KRD(XMP)	8GB	15-15-15-35	-	●	●		
PATRIOT	PVE48G240C5KRD(XMP)	4GB	15-15-15-35	-	●	●		
SK Hynix	HMA81GU6AFR8N-UH	8GB	17-17-17-39	-	●	●		
SK Hynix	HMA82GU6AFR8N-UH	16GB	17-17-17-39	-	●	●		
SK Hynix	HMA851U6AFR6N-UH	4GB	17-17-17-39	-	●	●		
Team	TCD44G2400C14BK(XMP)	4GB	14-16-16-31	1.2	●	●		
Team	TLRED416G2400HC14QC01	4GB	14-16-16-31	1.2	●	●		
Team	TLGD416G2400HC14QC01	4GB	14-16-16-31	1.2	●	●		
Team	TDRED416G2400HC14QC01	4GB	14-16-16-31	1.2	●	●		
Team	TDGED416G2400HC14QC01	4GB	14-16-16-31	1.2	●	●		
Team	TLRED48G2400HC14DC01	4GB	14-16-16-31	1.2	●	●		
Team	TLGD48G2400HC14DC01	4GB	14-16-16-31	1.2	●	●		
Team	TDRED48G2400HC14DC01	4GB	14-16-16-31	1.2	●	●		
Team	TDGED48G2400HC14DC01	4GB	14-16-16-31	1.2	●	●		
Team	TCD48G2400C14BK(XMP)	8GB	14-16-16-31	1.2	●	●		
Team	TLRED432G2400HC14QC01	8GB	14-16-16-31	1.2	●	●		
Team	TLGD432G2400HC14QC01	8GB	14-16-16-31	1.2	●	●		
Team	TDRED432G2400HC14QC01	8GB	14-16-16-31	1.2	●	●		
Team	TDGED432G2400HC14QC01	8GB	14-16-16-31	1.2	●	●		
Team	TLRED416G2400HC14DC01	8GB	14-16-16-31	1.2	●	●		
Team	TLGD416G2400HC14DC01	8GB	14-16-16-31	1.2	●	●		
Team	TDRED416G2400HC14DC01	8GB	14-16-16-31	1.2	●	●		
Team	TDGED416G2400HC14DC01	8GB	14-16-16-31	1.2	●	●		

Team	TED416G2400C16BK	16GB				16-16-16-39	1.2	●	●	
Team	TED464G2400C16QC01	16GB				16-16-16-39	1.2	●	●	
Team	TPRD464G2400HC16QC01	16GB				16-16-16-39	1.2	●	●	
Team	TPD464G2400HC16QC01	16GB				16-16-16-39	1.2	●	●	
Team	TED432G2400C16DC01	16GB				16-16-16-39	1.2	●	●	
Team	TPRD432G2400HC16DC01	16GB				16-16-16-39	1.2	●	●	
Team	TPD432G2400HC16DC01	16GB				16-16-16-39	1.2	●	●	
Team	TED416G2400C1601	16GB				16-16-16-39	1.2	●	●	
Team	TPRD416G2400HC1601	16GB				16-16-16-39	1.2	●	●	
Team	TPD416G2400HC1601	16GB				16-16-16-39	1.2	●	●	
Team	TED432G2400C16QC01	8GB				16-16-16-39	1.2	●	●	
Team	TPRD432G2400HC16QC01	8GB				16-16-16-39	1.2	●	●	
Team	TPD432G2400HC16QC01	8GB				16-16-16-39	1.2	●	●	
Team	TED416G2400C16DC01	8GB				16-16-16-39	1.2	●	●	
Team	TPRD416G2400HC16DC01	8GB				16-16-16-39	1.2	●	●	
Team	TPD416G2400HC16DC01	8GB				16-16-16-39	1.2	●	●	
Team	TED48G2400C1601	8GB				16-16-16-39	1.2	●	●	
Team	TPRD48G2400HC1601	8GB				16-16-16-39	1.2	●	●	
Team	TPD48G2400HC1601	8GB				16-16-16-39	1.2	●	●	
Team	TFRD44G2400C15ABK(XMP)	4GB				15-15-15-35	1.2	●	●	
Team	TDTRD416G2400HC15AQC01	4GB				15-15-15-35	1.2	●	●	
Team	TDTWD416G2400HC15AQC01	4GB				15-15-15-35	1.2	●	●	
Team	TDTBD416G2400HC15AQC01	4GB				15-15-15-35	1.2	●	●	
Team	TDTRD48G2400HC15ADC01	4GB				15-15-15-35	1.2	●	●	
Team	TDTWD48G2400HC15ADC01	4GB				15-15-15-35	1.2	●	●	
Team	TDTBD48G2400HC15ADC01	4GB				15-15-15-35	1.2	●	●	
Team	TDTRD44G2400HC15A01	4GB				15-15-15-35	1.2	●	●	
Team	TDTWD44G2400HC15A01	4GB				15-15-15-35	1.2	●	●	
Team	TDTBD44G2400HC15A01	4GB				15-15-15-35	1.2	●	●	
Team	TFRD48G2400C15ABK(XMP)	8GB				15-15-15-35	1.2	●	●	
Team	TDTRD432G2400HC15AQC01	8GB				15-15-15-35	1.2	●	●	
Team	TDTWD432G2400HC15AQC01	8GB				15-15-15-35	1.2	●	●	
Team	TDTBD432G2400HC15AQC01	8GB				15-15-15-35	1.2	●	●	
Team	TDTRD416G2400HC15ADC01	8GB				15-15-15-35	1.2	●	●	
Team	TDTWD416G2400HC15ADC01	8GB				15-15-15-35	1.2	●	●	
Team	TDTBD416G2400HC15ADC01	8GB				15-15-15-35	1.2	●	●	
Team	TDTRD48G2400HC15A01	8GB				15-15-15-35	1.2	●	●	
Team	TDTWD48G2400HC15A01	8GB				15-15-15-35	1.2	●	●	
Team	TDTBD48G2400HC15A01	8GB				15-15-15-35	1.2	●	●	
Team	TFWD416G2400C15BBK(XMP)	16GB				15-17-17-35	1.2	●	●	
Team	TDTRD464G2400HC15BQC01	16GB				15-17-17-35	1.2	●	●	
Team	TDTWD464G2400HC15BQC01	16GB				15-17-17-35	1.2	●	●	
Team	TDTBD464G2400HC15BQC01	16GB				15-17-17-35	1.2	●	●	
Team	TDTRD432G2400HC15BDC01	16GB				15-17-17-35	1.2	●	●	
Team	TDTWD432G2400HC15BDC01	16GB				15-17-17-35	1.2	●	●	
Team	TDTBD432G2400HC15BDC01	16GB				15-17-17-35	1.2	●	●	
Team	TDTRD416G2400HC15B01	16GB				15-17-17-35	1.2	●	●	
Team	TDTWD416G2400HC15B01	16GB				15-17-17-35	1.2	●	●	
Team	TDTBD416G2400HC15B01	16GB				15-17-17-35	1.2	●	●	
V-color	TC48G24S817-IMS	8GB				17-17-17-39	1.2	●	●	
V-color	TD4G8C17-UH	4GB				15-15-15-36	1.2	●	●	
V-color	TD8G16C17-UH	8GB				17-17-17-39	1.2	●	●	
Ramsta	R2DD4N04G2400	4GB	SS	Micron	8	16-16-16-39	1.20V	●	●	●
Ramsta	R2DD4N16G2400	16G	SS	Micron	16	17-17-17-39	1.20V	●	●	
Ramsta	R2DD4N08G2400	8GB	DS	Micron	8	17-17-17-39	1.20V	●	●	●

DDR4 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	4 DIMM
CORSAIR	CMK16GX4M4A2666C16（Ver5.29）	4GB	SS	N/A	Heat-Sink Package	16-18-18-35	1.2V	●	●	●
CORSAIR	CMD32GX4M4A2666C15(Ver5.29)	8GB	DS	N/A	Heat-Sink Package	15-17-17-35	1.2V	●	●	●
PATRIOT	PX416G266C5QK	4GB	SS	N/A	Heat-Sink Package	15-15-15-35	1.2V	●	●	●
MUSHKIN	997192F	4GB	SS	N/A	Heat-Sink Package	15-15-15-35	1.2V	●	●	
KINGSTON	HX426C13PBK4/32	8GB	DS	N/A	Heat-Sink Package	15-15-15-36	1.35V	●	●	
KINGSTON	HX426C15FBK4/32	8GB	DS	N/A	Heat-Sink Package	15-17-17-35	1.2V	●	●	
KINGSTON	HX426C15FBK4/16	4GB	SS	N/A	Heat-Sink Package	15-17-17-35	1.2V	●	●	
CRUCIAL	BLE4G4D26AFEA.8FAD	8GB	SS	N/A	Heat-Sink Package	16-16-17-36	1.2V	●	●	●
CRUCIAL	BLE8G4D26AFEA.16FAD	8GB	DS	N/A	Heat-Sink Package	16-17-17-36	1.2V	●		●
AVEXIR	AVD4UZ126661504G-4COB	4GB	SS	N/A	Heat-Sink Package	15-15-15-36	1.2V	●	●	●
AVEXIR	AVD4UZ126661508G-4COB	8GB	DS	N/A	Heat-Sink Package	15-15-15-36	1.2V	●	●	
CRUCIAL	BLT4G4D26AFTA.8FADG	4GB	SS	N/A	Heat-Sink Package	16-17-17-36	1.2V		●	●
CRUCIAL	BLT8G4D26AFTA.16FAD	8GB	DS	N/A	Heat-Sink Package	16-17-17-36	1.2V	●		
KLEVV	IMA41GU6MFR8N-C F0	8GB	DS	N/A	Heat-Sink Package	15-15-15	1.2V	●	●	●
KINGSTON	HX426C13SB2K4/16	4GB	SS	N/A	Heat-Sink Package	15-15-15-36	1.35V	●	●	
PNY	MD16GK4D4266615AXR	4GB	SS	N/A	Heat-Sink Package		1.2V	●	●	●
AVEXIR	AVD4UZ126661504G-4IPROG	4GB	DS	N/A	Heat-Sink Package		1.2V	●	●	
AVEXIR	AVD4UZ126661504G	4GB	DS	N/A	Heat-Sink Package		1.2V	●	●	
CORSAIR	CMU32GX4M2A2666C16（Ver5.20）	16GB	DS	N/A	Heat-Sink Package	16-18-18-35	1.2V	●	●	●
CORSAIR	CMK16GX4M2A2666C16（Ver3.31）	8GB	SS	N/A	Heat-Sink Package	16-18-18-35	1.2V		●	●
CORSAIR	CMK32GX4M2A2666C16（Ver5.39）	16GB	DS	N/A	Heat-Sink Package	16-18-18-35	1.2V	●	●	●
CORSAIR	CMK16GX4M4A2666C15（Ver5.20）	16GB	SS	N/A	Heat-Sink Package	15-17-17-35	1.2V	●	●	●
CORSAIR	CMK64GX4M4A2666C16（Ver5.3）	16GB	DS	N/A	Heat-Sink Package	16-18-18-35	1.2V	●	●	
G.SKILL	F4-2666C15Q-32GRR	8GB	SS	N/A	Heat-Sink Package	15-15-15-35	1.2V	●	●	●
AVEXIR	AVD4UZ126661704G-4COR	4G*4	SS	N/A	Heat-Sink Package		1.2V	●	●	●
AVEXIR	AVD4UZ126661708G-4COR	8GB	SS	N/A	Heat-Sink Package		1.2V	●	●	●
CORSAIR	CMK32GX4M4A2666C15（Ver5.20）	8GB	DS	N/A	Heat-Sink Package	15-17-17-35	1.2V	●	●	
TEAM	TFRD4162666C15BBK	16G	DS	N/A	SEC546	15-17-17-35	1.2V	●	●	
TEAM	TCD44G2666C15BBK	4G	SS	TEAM	T4D5128HT-266	15-17-17-35	1.2V	●	●	●
Klevv	IM4AGU88N26-FFFHMZ	16GB	DS	N/A	Heat-Sink Package	15-15-15	1.2V	●	●	●
Klevv	IM44GU48N26-FFFHAZ	4GB	SS	N/A	Heat-Sink Package	15-15-15	1.2V	●	●	●

CORSAIR	CMK16GX4M2A2666C16(Ver5.30)	8GB	SS	N/A	Heat-Sink Package	16-18-18-35	1.2V	●	●	
ADATA	AX4U2666W4G16-BRZ	4GB	SS	N/A	Heat-Sink Package	16-16-16-39	1.2V	●	●	
ADATA	AX4U266638G16-DRZ	8GB	SS	N/A	Heat-Sink Package	16-16-16-39	1.2V	●	●	●
ADATA	AX4U2666W8G16-QRZ	8GB	DS	N/A	Heat-Sink Package	16-16-16-39	1.2V	●	●	●
CRUCIAL	BLS8G4D26BFSC.16FBR2	8GB	DS	N/A	Heat-Sink Package	16-18-18-38	1.20V	●	●	●
CRUCIAL	BLS4G4D26BFSC.8FBR2	4GB	SS	N/A	Heat-Sink Package	16-18-18-38	1.20V	●	●	●
CORSAIR	CMK128GX4M8A2666C16(Ver5.39)	16GB	DS	N/A	Heat-Sink Package	16-18-18-36	1.20V	●	●	●
CORSAIR	CMR16GX4M2A2666C16(Ver5.30)	8GB	SS	N/A	Heat-Sink Package	16-18-18-35	1.20V	●	●	
CORSAIR	CMK128GX4M8A2666C16(Ver5.39)	16GB	DS	N/A	Heat-Sink Package	16-18-18-35	1.20V	●	●	●
CORSAIR	CMR64GX4M8A2666C16(Ver5.30)	8GB	SS	N/A	Heat-Sink Package	16-18-18-35	1.20V		●	
HyperX	HX426C16FB2K4/64	16GB	DS	N/A	Heat-Sink Package	16-18-18-39	1.20V	●	●	●
G.SKILL	F4-2666C16Q2-64GRB	8GB	SS	N/A	Heat-Sink Package	16-16-16-36	1.20V	●	●	●
HyperX	HX426C15SBK8/128	16GB	DS	N/A	Heat-Sink Package	15-16-16-35	1.20V	●	●	
HyperX	HX426C13PB3/8	8GB	SS	N/A	Heat-Sink Package	13-15-15-35	1.35V	●	●	
HyperX	HX426C13PB3K2/16	8GB	SS	N/A	Heat-Sink Package	13-15-15-35	1.35V	●	●	
HyperX	HX424C12PB3/8	8GB	SS	N/A	Heat-Sink Package	13-15-15-35	1.35V	●	●	
HyperX	HX424C12PB3K2/16	8GB	SS	N/A	Heat-Sink Package	13-15-15-35	1.35V	●	●	
HyperX	HX424C12PB3K4/32	8GB	SS	N/A	Heat-Sink Package	13-15-15-35	1.35V	●	●	
HyperX	HX426C13PB3/16	16GB	DS	N/A	Heat-Sink Package	13-15-15-35	1.35V	●	●	●
HyperX	HX426C13PB3K2/32	16GB	DS	N/A	Heat-Sink Package	13-15-15-35	1.35V	●	●	●
HyperX	HX424C12PB3K4/64	16GB	DS	N/A	Heat-Sink Package	13-15-15-35	1.35V	●	●	●
HyperX	HX424C12PB3/16	16GB	DS	N/A	Heat-Sink Package	13-15-15-35	1.35V	●	●	●
HyperX	HX424C12PB3K2/32	16GB	DS	N/A	Heat-Sink Package	13-15-15-35	1.35V	●	●	●
CRUCIAL	BLS8G4D26BFSCK.8FBR	8GB	SS	N/A	Heat-Sink Package	16-18-18-38	1.20V	●	●	●
CRUCIAL	BLS8G4D26BFSCK.8FBD	8GB	SS	N/A	Heat-Sink Package	16-18-18-38	1.20V	●	●	●
MICRON	MTA16ATF2G64AZ-2G6H1	16GB	DS	MICRON	7BH45 D9VHP	19-19-19-43	1.20V	●	●	●
MICRON	MTA8ATF1G64AZ-2G6H1	8GB	SS	MICRON	7BH45 D9VHP	19-19-19-43	1.20V	●	●	●
ADATA	AX4U266638G16-DRZ(XMP)	8GB				16-16-16-39	1.2	●	●	
ADATA	AX4U2666W4G16-BRZ(XMP)	4GB				16-16-16-39	1.2	●	●	
ADATA	AX4U2666W8G16-QRZ(XMP)	8GB				16-16-16-39	1.2	●	●	●
CORSAIR	CMD128GX4M8A2666C15(Ver4.31)(XMP)	16GB				15-17-17-35	1.2	●	●	●
CORSAIR	CMD16GX4M2A2666C15(Ver4.23)(XM	8GB				15-17-17-35	1.2	●	●	
CORSAIR	CMD16GX4M4A2666C15(Ver4.23)(XM	4GB				15-17-17-35	1.2	●	●	●
CORSAIR	CMD16GX4M4A2666C16(Ver4.23)(XM	4GB				16-18-18-35	1.2	●	●	●
CORSAIR	CMD16GX4M4A2666C16(Ver5.29)(XM	4GB				16-18-18-35	1.2	●	●	●
CORSAIR	CMD32GX4M4A2666C15(Ver4.23)(XM	8GB				15-17-17-35	1.2	●	●	●
CORSAIR	CMD32GX4M4A2666C15(Ver5.29)(XM	8GB				15-17-17-35	1.2	●	●	●
CORSAIR	CMD32GX4M4A2666C16(Ver4.23)(XM	8GB				16-18-18-35	1.2	●	●	●
CORSAIR	CMD64GX4M8A2666C15(Ver4.23)(XM	8GB				15-17-17-35	1.2	●	●	●
CORSAIR	CMD64GX4M8A2666C15(Ver4.24)(XM	8GB				15-17-17-35	1.2	●	●	●
CORSAIR	CMD8GX4M2A2666C15(Ver4.23)(XMP	4GB				15-17-17-35	1.2	●	●	
CORSAIR	CMK128GX4M8A2666C16(Ver5.39)(XMP)	16GB				16-18-18-35	1.2	●	●	●
CORSAIR	CMK16GX4M2A2666C16(Ver5.29)(XM	8GB				16-18-18-35	1.2	●	●	
CORSAIR	CMK16GX4M2A2666C16(Ver5.30)(XM	8GB				16-18-18-35	1.2	●	●	
CORSAIR	CMK16GX4M4A2666C15(Ver4.23)(XM	4GB				15-17-17-35	1.2	●	●	●
CORSAIR	CMK16GX4M4A2666C15(Ver5.29)(XM	4GB				15-17-17-35	1.2	●	●	●
CORSAIR	CMK16GX4M4A2666C16(Ver3.21)(XM	4GB				16-18-18-35	1.2	●	●	●
CORSAIR	CMK16GX4M4A2666C16(Ver4.23)(XM	4GB				16-18-18-35	1.2	●	●	●
CORSAIR	CMK16GX4M4A2666C16(Ver5.29)(XM	4GB				16-18-18-35	1.2	●	●	●
CORSAIR	CMK32GX4M2A2666C16(Ver4.31)(XM	16GB				16-18-18-35	1.2	●	●	
CORSAIR	CMK32GX4M2A2666C16R(Ver3.31)(XMP)	16GB				16-18-18-35	1.2	●	●	
CORSAIR	CMK32GX4M4A2666C15(Ver4.23)(XM	8GB				15-17-17-35	1.2	●	●	●
CORSAIR	CMK32GX4M4A2666C15(Ver5.29)(XM	8GB				15-17-17-35	1.2	●	●	
CORSAIR	CMK32GX4M4A2666C16(Ver3.20)(XM	8GB				16-18-18-35	1.2	●	●	●
CORSAIR	CMK32GX4M4A2666C16(Ver3.21)(XM	8GB				16-18-18-35	1.2	●	●	●
CORSAIR	CMK32GX4M4A2666C16(Ver5.29)(XM	8GB				16-16-18-35	1.2	●	●	●
CORSAIR	CMK32GX4M4A2666C16(Ver5.30)(XM	8GB				16-18-18-35	1.2	●	●	●
CORSAIR	CMK32GX4M4A2666C16R(Ver4.23)(XMP)	8GB				16-18-18-35	1.2	●	●	●
CORSAIR	CMK64GX4M4A2666C16(Ver3.31)(XM	16GB				16-18-18-35	1.2	●	●	●
CORSAIR	CMK64GX4M4A2666C16(Ver4.31)(XM	16GB				16-18-18-35	1.2	●	●	●
CORSAIR	CMR16GX4M2A2666C16(Ver5.30)(XM	8GB				16-18-18-35	1.2	●	●	
CORSAIR	CMU32GX4M4A2666C16(Ver5.30)(XM	8GB				16-18-18-35	1.2	●	●	●
crucial	BLE4G4D26AFEA.8FAD (XMP)	4GB				16-17-17-36	1.2	●	●	
crucial	BLE8G4D26AFEA.16FAD(XMP)	8GB				16-17-17-36	1.2	●	●	
crucial	BLS16G4D26BFSC.16FBD(XMP)	16GB				16-18-18-38	1.2	●	●	
crucial	BLS4G4D26BFSC.8FBR2(XMP)	4GB				16-18-18-38	1.2	●	●	
crucial	BLS8G4D26BFSC.16FBR2(XMP)	8GB				16-18-18-38	1.2	●	●	
crucial	BLT4G4D26AFTA.8FADG(XMP)	4GB				16-17-17-36	1.2	●	●	●
crucial	BLT4G4D26AFTA.8FADG(XMP)	4GB				16-17-17-36	1.2	●	●	
crucial	BLT8G4D26AFTA.16FAD(XMP)	8GB				16-17-17-36	1.2	●	●	●
crucial	BLT8G4D26AFTA.16FAD(XMP)	8GB				16-17-17-36	1.2	●	●	
G.SKILL	F4-2666C15Q-16GRR(XMP)	4GB				15-15-15-35	1.2	●	●	●
G.SKILL	F4-2666C15Q-16GVR	4GB				15-15-15-35	1.2	●	●	●
G.SKILL	F4-2666C15Q-16GVB	4GB				15-15-15-35	1.2	●	●	●
G.SKILL	F4-2666C15Q-16GVG	4GB				15-15-15-35	1.2	●	●	●
G.SKILL	F4-2666C15Q-16GVK	4GB				15-15-15-35	1.2	●	●	●
G.SKILL	F4-2666C15Q-16GVS	4GB				15-15-15-35	1.2	●	●	●
G.SKILL	F4-2666C15Q-16GRK	4GB				15-15-15-35	1.2	●	●	●
G.SKILL	F4-2666C15Q-16GRB	4GB				15-15-15-35	1.2	●	●	●
G.SKILL	F4-2666C15Q-32GRR(XMP)	8GB				15-15-15-35	1.2	●	●	●
G.SKILL	F4-2666C15Q-32GVR	8GB				15-15-15-35	1.2	●	●	●
G.SKILL	F4-2666C15Q-32GVB	8GB				15-15-15-35	1.2	●	●	●
G.SKILL	F4-2666C15Q-32GVG	8GB				15-15-15-35	1.2	●	●	●
G.SKILL	F4-2666C15Q-32GVK	8GB				15-15-15-35	1.2	●	●	●
G.SKILL	F4-2666C15Q-32GVS	8GB				15-15-15-35	1.2	●	●	●
G.SKILL	F4-2666C15Q-32GRK	8GB				15-15-15-35	1.2	●	●	●
G.SKILL	F4-2666C15Q-32GRB	8GB				15-15-15-35	1.2	●	●	●
G.SKILL	F4-2666C16Q2-128GVK(XMP)	16GB				16-16-16-36	1.2	●	●	●
G.SKILL	F4-2666C16Q2-128GVR	16GB				16-16-16-36	1.2	●	●	●
Hyper X	HX426C13PB3/16(XMP)	16GB				13-15-15-35	1.35	●	●	●
Hyper X	HX426C13PB3K2/32(XMP)	16GB				13-15-15-35	1.35	●	●	●

Hyper X	HX426C13PB3K4/64(XMP)	16GB				13-15-15-35	1.35	●	●	●
Hyper X	HX426C13SB2/4(XMP)	4GB				13-15-15-39	1.35	●	●	
Hyper X	HX426C13SB2/8(XMP)	8GB				13-15-15-39	1.35	●	●	
Hyper X	HX426C13SB2K2/16(XMP)	8GB				13-15-15-39	1.35	●	●	
Hyper X	HX426C13SB2K2/8(XMP)	4GB				13-15-15-39	1.35	●	●	
Hyper X	HX426C13SB2K4/16(XMP)	4GB				13-15-15-39	1.35	●	●	
Hyper X	HX426C13SB2K4/32(XMP)	8GB				13-15-15-39	1.35	●	●	
Hyper X	HX426C15FB/4	4GB				15-17-17-35	1.2	●	●	●
Hyper X	HX426C15FB/8	8GB				15-17-17-35	1.2	●	●	●
Hyper X	HX426C15FBK2/16	8GB				15-15-17-35	1.2	●	●	●
Hyper X	HX426C15FBK2/16	8GB				15-17-17-35	1.2	●	●	●
Hyper X	HX426C15FBK2/8	4GB				15-17-17-35	1.2	●	●	●
Hyper X	HX426C15FBK4/16	4GB				15-17-17-35	1.2	●	●	●
Hyper X	HX426C15FBK4/32	8GB				15-15-17-35	1.2	●	●	●
Hyper X	HX426C15FBK4/32	8GB				15-17-17-35	1.2	●	●	●
Hyper X	HX426C15SBK4/64(XMP)	16GB				15-15-15-35	1.2	●	●	●
Hyper X	HX426C16FB/16	16GB				16-18-18-39	1.2	●	●	●
Hyper X	HX426C16FB2/8(XMP)	8GB				16-18-18-39	1.2	●	●	●
Hyper X	HX426C16FB2K2/16(XMP)	8GB				16-18-18-39	1.2	●	●	●
Hyper X	HX426C16FB2K4/32(XMP)	8GB				16-18-18-39	1.2	●	●	●
Hyper X	HX426C16FBK2/32	16GB				16-18-18-39	1.2	●	●	●
Hyper X	HX426C16FBK4/64	16GB				16-18-18-39	1.2	●	●	●
Hyper X	HX426C16FBK4/64	16GB				16-18-18-39	-	●	●	
Hyper X	HX426C16FW/16	16GB				16-18-18-39	1.2	●	●	●
Hyper X	HX426C16FWK2/32	16GB				16-18-18-39	1.2	●	●	●
Hyper X	HX426C16FWK4/64	16GB				16-18-18-39	1.2	●	●	●
Kingston	KVR26N19D8/16	16GB				19-19-19-43	1.2	●	●	
Kingston	KVR26N19S8/8	8GB				19-19-19-43	1.2	●	●	
Klevv	IM44GU48N26-FFFHAZ(XMP)	4GB				15-15-15-35	1.2	●	●	
Klevv	KM4Z4GX1N-2666-15-15-15-35-1	4GB				15-15-15-35	1.2	●	●	
Klevv	KM4Z4GX2N-2666-15-15-15-35-1	4GB				15-15-15-35	1.2	●	●	
Klevv	KM4Z4GX4N-2666-15-15-15-35-1	4GB				15-15-15-35	1.2	●	●	
Klevv	IM48GU88N26-FFFHMZ(XMP)	8GB				15-15-15-35	1.2	●	●	
Klevv	KM4Z8GX1N-2666-15-15-15-35-1	8GB				15-15-15-35	1.2	●	●	
Klevv	IM4AGU88N26-FFFHMZ(XMP)	16GB				15-15-15-35	1.2	●	●	
Klevv	KM4Z16X1N-2666-15-15-15-35-0	16GB				15-15-15-35	1.2	●	●	
Klevv	KM4Z16X2N-2666-15-15-15-35-0	16GB				15-15-15-35	1.2	●	●	
Klevv	KM4Z16X4N-2666-15-15-15-35-0	16GB				15-15-15-35	1.2	●	●	
Klevv	KM4C4GX4N-2666-15-15-15-35-0	4GB				15-15-15-35	1.2	●	●	
Klevv	KM4C4GX4N-2666-15-15-15-35-1	4GB				15-15-15-35	1.2	●	●	
Klevv	KM4C8GX4N-2666-15-15-15-35-0	8GB				15-15-15-35	1.2	●	●	
Klevv	KM4C8GX4N-2666-15-15-15-35-	8GB				15-15-15-35	1.2	●	●	
Team	TFRD416G2666C15BBK(XMP)	16GB				15-17-17-35	1.2	●		
Team	TCD44G2666C15BBK(XMP)	4GB				15-17-17-35	1.2	●	●	
Team	TLRED416G2666HC15BQC01	4GB				15-17-17-35	1.2	●	●	
Team	TLGD416G2666HC15BQC01	4GB				15-17-17-35	1.2	●	●	
Team	TDRED416G2666HC15BQC01	4GB				15-17-17-35	1.2	●	●	
Team	TDGED416G2666HC15BQC01	4GB				15-17-17-35	1.2	●	●	
Team	TLRED48G2666HC15BDC01	4GB				15-17-17-35	1.2	●	●	
Team	TLGD48G2666HC15BDC01	4GB				15-17-17-35	1.2	●	●	
Team	TDRED48G2666HC15BDC01	4GB				15-17-17-35	1.2	●	●	
Team	TDGED48G2666HC15BDC01	4GB				15-17-17-35	1.2	●	●	
Team	TFRD416G2666C15BBK(XMP)	16GB				15-17-17-35	1.2	●	●	
Team	THRD464G2666HC15BQC01	16GB				15-17-17-35	1.2	●	●	
Team	THWD464G2666HC15BQC01	16GB				15-17-17-35	1.2	●	●	
Team	THBD464G2666HC15BQC01	16GB				15-17-17-35	1.2	●	●	
Team	THRD432G2666HC15BDC01	16GB				15-17-17-35	1.2	●	●	
Team	THWD432G2666HC15BDC01	16GB				15-17-17-35	1.2	●	●	
Team	THBD432G2666HC15BDC01	16GB				15-17-17-35	1.2	●	●	
Team	TFWD48G2666C15BBK(XMP)	8GB				15-17-17-35	1.2	●	●	
Team	TLRED432G2666HC15BQC01	8GB				15-17-17-35	1.2	●	●	
Team	TLGD432G2666HC15BQC01	8GB				15-17-17-35	1.2	●	●	
Team	TDRED432G2666HC15BQC01	8GB				15-17-17-35	1.2	●	●	
Team	TDGED432G2666HC15BQC01	8GB				15-17-17-35	1.2	●	●	
Team	THRD432G2666HC15BQC01	8GB				15-17-17-35	1.2	●	●	
Team	THWD432G2666HC15BQC01	8GB				15-17-17-35	1.2	●	●	
Team	THBD432G2666HC15BQC01	8GB				15-17-17-35	1.2	●	●	
Team	TLRED416G2666HC15BDC01	8GB				15-17-17-35	1.2	●	●	
Team	TLGD416G2666HC15BDC01	8GB				15-17-17-35	1.2	●	●	
Team	TDRED416G2666HC15BDC01	8GB				15-17-17-35	1.2	●	●	
Team	TDGED416G2666HC15BDC01	8GB				15-17-17-35	1.2	●	●	
Team	THRD416G2666HC15BDC01	8GB				15-17-17-35	1.2	●	●	
Team	THWD416G2666HC15BDC01	8GB				15-17-17-35	1.2	●	●	
Team	THBD416G2666HC15BDC01	8GB				15-17-17-35	1.2	●	●	

DDR4 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	4 DIMM
CORSAIR	CMK16GX4M4A2800C16(Ver5.29)	4GB	SS	N/A	Heat-Sink Package	16-18-18-36	1.2V	●	●	
KINGSTON	HX428C14PB2K4/16	4GB	SS	N/A	Heat-Sink Package	15-15-15-36-50	1.35V	●	●	●
PATRIOT	PX416G280C6QK	4GB	SS	N/A	Heat-Sink Package	16-18-18-36	1.2V	●	●	●
PANRAM	PUD42800C164G4NJW	4GB	SS	N/A	Heat-Sink Package	16-18-18-36	1.25V	●	●	●
MUSHKIN	994207F	4GB	SS	N/A	Heat-Sink Package	16-16-16-36	1.2V	●		
KINGSTON	HX428C14PBK4/32	8GB	DS	N/A	Heat-Sink Package	15-15-15-36-50	1.35V	●	●	●
AVEXIR	AVD4UZ128001604G-4COB	4GB	SS	N/A	Heat-Sink Package	15-15-15-36-51	1.2V	●	●	●
AVEXIR	AVD4UZ128001608G-4COB	8GB	DS	N/A	Heat-Sink Package	15-15-15-36-51	1.2V	●	●	●
KINGSTON	HX428C14SB2K4/32	8GB	DS	N/A	Heat-Sink Package	15-15-15-36-50	1.35V	●	●	●
KINGSTON	HX428C14SB2K4/16	4GB	SS	N/A	Heat-Sink Package	15-15-15-36-50	1.35V	●	●	
TEAM	TDGED48G2800HC16ABK	8GB	SS	N/A	Heat-Sink Package	16-16-16-36	1.2V	●	●	
PATRIOT	PV416G280C6QK	4GB	SS	N/A	Heat-Sink Package	16-18-18-36	1.2V	●	●	
ADATA	Digital Storm	8GB	DS	SK HYNIX	HMA54G8NAFR			●	●	
G.SKILL	F4-2800C16D-16GRR	8GB	SS	N/A	Heat-Sink Package		1.2V	●	●	
ADATA	AX4U280038G17-SBF	8GB	SS	N/A	Heat-Sink Package	18-17-17-36	1.2V	●	●	●
ADATA	AX4U2800316G16-SBF	16GB	DS	N/A	Heat-Sink Package	17-16-16-36	1.2V	●	●	
CORSAIR	CMD32GX4M4A2800C16（Ver5.20）	8GB	DS	N/A	Heat-Sink Package	16-18-18-36	1.2V	●	●	●

G.SKILL	F4-2800C14Q-64GVK	16GB	DS	N/A	Heat-Sink Package	14-14-14-35	1.35V	●	●	
G.SKILL	F4-2800C16Q-32GVR	8GB	SS	N/A	Heat-Sink Package	16-16-16-36	1.20V	●	●	●
AVEXIR	AVD4UZ128001504G-4BZ1RR	4GB	SS	N/A	Heat-Sink Package		1.35V	●	●	●
AVEXIR	AVD4UZ128001508G-4BZ1RR	8GB	DS	N/A	Heat-Sink Package		1.35V	●	●	●
CORSAIR	CMD16GX4M4A2800C16(Ver3.21)	4GB	SS	N/A	Heat-Sink Package	16-18-18-36	1.2V	●	●	●
CORSAIR	CMK64GX4M8B2800C14（Ver4.24）	8GB	DS	N/A	Heat-Sink Package	14-16-16-36	1.35V	●	●	●
TEAM	TFWD416G2800C16CBK	16G	DS	TEAM	T4D10248HT-30	16-18-18-38	1.2V	●	●	●
TEAM	TFRD48G2800C16CBK	8G	DS	N/A	SEC625	16-18-18-38	1.2V	●	●	●
TEAM	TCD44G2800C16CBK	4GB	SS	TEAM	T4D5128HT-30	16-18-18-38	1.2V	●	●	●
ADATA	AX4U2800W8G17-BRD	8GB	DS	N/A	Heat-Sink Package	17-17-17-36	1.2V	●	●	●
G.SKILL	F4-2800C15Q-32GVR	8GB	SS	N/A	Heat-Sink Package	15-15-15-35	1.25V	●	●	●
ADATA	AX4U2800W4G17-BRZ	4GB	SS	N/A	Heat-Sink Package	17-17-17-36	1.2V	●	●	
ADATA	AX4U280038G17-BWZ	8GB	SS	N/A	Heat-Sink Package	17-17-17-36	1.2V	●	●	
KINGMAX	GLMG42F-18KIIA CJBR4	8GB	SS	N/A	Heat-Sink Package	17-17-17-39	1.20V	●	●	●
ADATA	AX4U2800316G16(XMP)	16GB				16-16-16-36	1.2	●	●	
ADATA	AX4U2800316G16-SBF(XMP)	16GB				16-16-16-36	1.2	●	●	
ADATA	AX4U280038G17-SBF(XMP)	8GB				17-17-17-36	1.2	●	●	
ADATA	AX4U2800W4G17-BRZ(XMP)	4GB				17-17-17-36	1.2	●	●	
ADATA	AX4U2800W8G15(XMP)	8GB				15-16-16-35	1.25	●	●	
ADATA	AX4U2800W8G17-BRD(XMP)	8GB				17-17-17-36	1.2	●	●	
ADATA	AX4U2800W8G17-BRZ(XMP)	8GB				17-17-17-36	1.2	●	●	
Apacer	78.BAGM8.AF20B(XMP)	4GB				17-17-17-36	-	●	●	●
Apacer	78.CAGM8.AF30B(XMP)	8GB				17-17-17-36	-	●	●	●
Apacer	AHU08GGB28CET6H(EK.16GAW.KFAK2)	8GB				17-17-17-36	1.2	●	●	●
Apacer	AHU08GGB28CEU6H(EK.16GAW.GFAK2)	8GB				17-17-17-36	1.2	●	●	●
Apacer	AHU08GGB28CEU5H(EK.16GAW.GFBK2)	8GB				17-17-17-36	1.2	●	●	●
CORSAIR	CMD16GX4M4A2800C16(Ver4.23)(XMP)	4GB				16-18-18-36	1.2	●	●	●
CORSAIR	CMD16GX4M4A2800C16(Ver5.29)(XMP)	4GB				16-18-18-36	1.2	●	●	●
CORSAIR	CMD32GX4M4A2800C15(Ver5.29)(XMP)	8GB				15-17-17-36	1.2	●	●	●
CORSAIR	CMD32GX4M4A2800C16(Ver5.29)(XMP)	8GB				18-18-18-36	1.2	●	●	●
CORSAIR	CMK16GX4M4A2800C16(Ver4.23)(XMP)	4GB				16-16-18-36	1.2	●	●	●
CORSAIR	CMK16GX4M4A2800C16(Ver5.29)(XMP)	4GB				16-18-18-36	1.2	●	●	●
CORSAIR	CMK32GX4M4A2800C16(Ver5.29)(XMP)	8GB				16-18-18-36	1.2	●	●	●
CORSAIR	CMK64GX4M8B2800C14(Ver4.24)(XMP)	8GB				14-16-16-36	1.35	●	●	●
G.SKILL	F4-2800C14Q-64GVK(XMP)	16GB				14-14-14-35	1.35	●	●	
G.SKILL	F4-2800C15Q2-128GRKD(XMP)	16GB				15-15-15-35	1.35	●	●	●
G.SKILL	F4-2800C15Q2-64GRK(XMP)	8GB				15-16-16-35	1.25	●	●	●
G.SKILL	F4-2800C16Q-16GRK(XMP)	4GB				16-16-16-36	1.2	●	●	●
G.SKILL	F4-2800C16Q-16GRR(XMP)	4GB				16-16-16-36	1.2	●	●	●
G.SKILL	F4-2800C16Q-32GRK(XMP)	8GB				16-16-16-36	1.2	●	●	●
G.SKILL	F4-2800C16Q-32GRR(XMP)	8GB				16-16-16-36	1.2	●	●	●
G.SKILL	F4-2800C16Q-32GVB	8GB				16-16-16-36	1.2	●	●	●
G.SKILL	F4-2800C16Q-32GVK	8GB				16-16-16-36	1.2	●	●	●
G.SKILL	F4-2800C16Q-32GVG	8GB				16-16-16-36	1.2	●	●	●
G.SKILL	F4-2800C16Q-32GVS	8GB				16-16-16-36	1.2	●	●	●
GelL	GPR416GB2800C16QC(XMP)	4GB				16-16-16-36	1.2	●	●	●
GelL	GPR432GB2800C16QC(XMP)	8GB				16-16-16-36	1.2	●	●	●
Hyper X	HX428C14PBK8/64(XMP)	8GB				14-15-15-39	1.35	●	●	●
Hyper X	HX428C14SB2/4(XMP)	4GB				14-16-16-39	1.35	●	●	●
Hyper X	HX428C14SB2/8(XMP)	8GB				14-16-16-39	1.35	●	●	●
Hyper X	HX428C14SB2K2/16(XMP)	8GB				14-16-16-39	1.35	●	●	●
Hyper X	HX428C14SB2K2/8(XMP)	4GB				14-16-16-39	1.35	●	●	●
Hyper X	HX428C14SB2K4/16(XMP)	4GB				14-16-16-39	1.35	●	●	●
Hyper X	HX428C14SB2K4/32(XMP)	8GB				14-16-16-39	1.35	●	●	●
KINGMAX	GLMG42F-18KIIA-CJBR4(XMP)	8GB				17-17-17-39	1.2	●	●	
Klevv	IMA451U6MFR8N-DG0(Ver1.05)(XMP)	4GB				16-16-16-36	1.2	●	●	
NEO	NFMUD416E8-2800EB2A(XMP)	16GB				17-17-17-36	-	●	●	
NEO	NFMUD416E8-2800EB3A(XMP)	16GB				17-17-17-36	-	●	●	
NEO	NFMUD416E8-2800EC2A(XMP)	16GB				17-17-17-36	-	●	●	
NEO	NFMUD416E8-2800EC3A(XMP)	16GB				17-17-17-36	-	●	●	
NEO	NFMUD416E8-2800ED2A(XMP)	16GB				17-17-17-36	-	●	●	
NEO	NFMUD416E8-2800EH2A(XMP)	16GB				17-17-17-36	-	●	●	
NEO	NFMUD480E8-2800DB2A(XMP)	8GB				17-17-17-36	-	●	●	
NEO	NFMUD480E8-2800DB3A(XMP)	8GB				17-17-17-36	-	●	●	
NEO	NFMUD480E8-2800DC2A(XMP)	8GB				17-17-17-36	-	●	●	
NEO	NFMUD480E8-2800DC3A(XMP)	8GB				17-17-17-36	-	●	●	
NEO	NFMUD480E8-2800DD2A(XMP)	8GB				17-17-17-36	-	●	●	
NEO	NFMUD480E8-2800DD3A(XMP)	8GB				17-17-17-36	-	●	●	
NEO	NFMUD480E8-2800DH2A(XMP)	8GB				17-17-17-36	-	●	●	
Team	TCD44G2800C16CBK(XMP)	4GB				16-18-18-38	1.2	●	●	
Team	TLRED416G2800HC16CQC01	4GB				16-18-18-38	1.2	●	●	
Team	TLGD416G2800HC16CQC01	4GB				16-18-18-38	1.2	●	●	
Team	TDRED416G2800HC16CQC01	4GB				16-18-18-38	1.2	●	●	
Team	TDGED416G2800HC16CQC01	4GB				16-18-18-38	1.2	●	●	
Team	TLRED48G2800HC16CDC01	4GB				16-18-18-38	1.2	●	●	
Team	TLGD48G2800HC16CDC01	4GB				16-18-18-38	1.2	●	●	
Team	TDRED48G2800HC16CDC01	4GB				16-18-18-38	1.2	●	●	
Team	TDGED48G2800HC16CDC01	4GB				16-18-18-38	1.2	●	●	
Team	TFRD48G2800C16CBK(XMP)	8GB				16-18-18-38	1.2	●	●	
Team	TLRED432G2800HC16CQC01	8GB				16-18-18-38	1.2	●	●	
Team	TLGD432G2800HC16CQC01	8GB				16-18-18-38	1.2	●	●	
Team	TDRED432G2800HC16CQC01	8GB				16-18-18-38	1.2	●	●	
Team	TDGED432G2800HC16CQC01	8GB				16-18-18-38	1.2	●	●	
Team	THRD432G2800HC16CQC01	8GB				16-18-18-38	1.2	●	●	
Team	THWD432G2800HC16CQC01	8GB				16-18-18-38	1.2	●	●	
Team	THBD432G2800HC16CQC01	8GB				16-18-18-38	1.2	●	●	
Team	TLRED416G2800HC16CDC01	8GB				16-18-18-38	1.2	●	●	
Team	TLGD416G2800HC16CDC01	8GB				16-18-18-38	1.2	●	●	
Team	TDRED416G2800HC16CDC01	8GB				16-18-18-38	1.2	●	●	
Team	TDGED416G2800HC16CDC01	8GB				16-18-18-38	1.2	●	●	
Team	THRD416G2800HC16CDC01	8GB				16-18-18-38	1.2	●	●	
Team	THWD416G2800HC16CDC01	8GB				16-18-18-38	1.2	●	●	

Team	THBD416G2800HC16CDC01	8GB				16-18-18-38	1.2	●	●	
Team	TFWD416G2800C16CBK(XMP)	16GB				16-18-18-38	1.2	●	●	

DDR4 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	4 DIMM
CORSAIR	CMD32GX4M2B3000C15(Ver4.31)	16GB	DS	N/A	Heat-Sink Package	15-17-17-35	1.35V	●	●	●
KINGSTON	HX430C15PB2K4/16	4GB	SS	N/A	Heat-Sink Package	15-15-15-36-50	1.35V	●	●	●
PANRAM	PUD43000C154G4NJW	4GB	SS	N/A	Heat-Sink Package	15-17-17-35	1.35V	●	●	●
KINGSTON	HX430C15PBK4/32	8GB	DS	N/A	Heat-Sink Package	15-15-15-36-50	1.35V	●	●	
KINGSTON	HX430C15SB2K4/32	8GB	DS	N/A	Heat-Sink Package	15-15-15-36-50	1.35V	●	●	●
AVEXIR	AVD4UZ130001604G-4COB	4GB	SS	N/A	Heat-Sink Package	15-15-15-36-51	1.35V	●	●	●
AVEXIR	AVD4UZ130001608G-4COB	8GB	DS	N/A	Heat-Sink Package	15-15-15-36-51	1.35V	●	●	●
KINGSTON	HX430C16PBK4/64	16GB	DS	N/A	Heat-Sink Package	15-15-15-36-50	1.35V	●	●	
KINGSTON	HX430C15SBK2/16	8GB	DS	N/A	Heat-Sink Package	15-15-15-36-50	1.35V	●	●	●
KLEVV	IM44GU48A30-GIIHMC	4GB	SS	N/A	Heat-Sink Package	16-18-18	1.35V	●	●	●
CORSAIR	CMK16GX4M2B3000C15(Ver4.24)	8GB	DS	N/A	Heat-Sink Package	15-17-17-35	1.35V	●	●	
KINGSTON	HX430C15SB2K4/16	4GB	SS	N/A	Heat-Sink Package	15-15-15-36-50	1.35V	●	●	
TEAM	TDGED48G3000HC16ABK	8GB	DS	N/A	Heat-Sink Package	16-16-16-36	1.35V	●		
PATRIOT	PV416G300C6QK	4GB	SS	N/A	Heat-Sink Package	16-16-16-36	1.35V	●	●	
G.SKILL	F4-3000C15D-32GVR	16GB	DS	N/A	Heat-Sink Package	15-15-15-35	1.35V	●	●	
CORSAIR	CMK64GX4M4B3000C15(Ver4.31)	16GB	DS	N/A	Heat-Sink Package	15-17-17-35	1.35V	●	●	●
TEAM	TCD48G300C16ABK	8GB	SS	Skhymix	H5AN8G8NMFR	16-16-16-36	1.35V	●	●	
ADATA	AX4U300038G16-DBZ	8GB	DS	N/A	Heat-Sink Package	16-18-18-36	1.35V	●	●	●
ADATA	AX4U3000316G16-BGZ	16GB	DS	N/A	Heat-Sink Package	16-18-18	1.35V	●	●	●
CORSAIR	CMD16GX4M4B3000C15(Ver4.24)	4GB	SS	N/A	Heat-Sink Package	15-17-17-35	1.35V	●	●	●
CORSAIR	CMK32GX4M2B3000C15(Ver5.39)	16GB	DS	N/A	Heat-Sink Package	15-17-17-35	1.35V	●	●	
CORSAIR	CMU16GX4M2C3000C15(Ver4.31)	8GB	SS	N/A	Heat-Sink Package	15-17-17-35	1.35V	●	●	
CORSAIR	CMK16GX4M4B3000C15(Ver3.21)	4GB	SS	N/A	Heat-Sink Package	15-17-17-35	1.35V	●	●	
G.SKILL	F4-3000C15Q-32GRK(XMP)	8GB	DS	N/A	Heat-Sink Package	15-15-15-35	1.35V	●	●	●
CORSAIR	CMK8GX4M2B3000C15(Ver3.21)	4GB	SS	N/A	Heat-Sink Package	15-17-17-35	1.35V	●	●	●
CORSAIR	CMU32GX4M4C3000C15(Ver5.3)	8GB	DS	N/A	Heat-Sink Package	15-17-17-35	1.35V	●	●	●
GEIL	GFR416GB3000C15ADC	8GB	SS	N/A	Heat-Sink Package	15-17-17-35	1.35V	●	●	
TEAM	TFWD416G3000C16CBK	16G	DS	TEAM	T4D10248HT-30	16-18-18-38	1.35V	●	●	●
TEAM	TFRD48G3000C16CBK	8GB	DS	N/A	SEC625	16-18-18-38	1.35V	●	●	●
TEAM	TCD44G3000C16CBK	4GB	SS	TEAM	T4D5128HT-30	16-18-18-38	1.35V	●	●	●
Klevv	IM4AGU88A30-FGGHMZ	16GB	DS	N/A	Heat-Sink Package	15-16-16	1.35V	●	●	●
Klevv	IM48GU88A30-FGGHMZ	8GB	SS	N/A	Heat-Sink Package	15-16-16	1.35V	●	●	●
Klevv	IM44GU48A30-FGGHAZ	4GB	SS	N/A	Heat-Sink Package	15-16-16	1.35V	●	●	●
Klevv	IM48GU88A30-FGGHMB	8GB	SS	N/A	Heat-Sink Package	15-16-16	1.35V	●	●	●
Klevv	IM44GU48A30-FGGHAB	4GB	SS	N/A	Heat-Sink Package	15-16-16	1.35V	●	●	●
Klevv	IM4AGU88A30-FGGHMB	16GB	DS	N/A	Heat-Sink Package	15-16-16	1.35V	●	●	●
G.SKILL	F4-3000C16D-16GISB	8GB	SS	N/A	Heat-Sink Package	16-18-18-38	1.35V	●	●	
CORSAIR	CMD16GX4M2B3000C15(Ver5.30)	8GB	SS	N/A	Heat-Sink Package	15-17-17-35	1.35V	●	●	
CORSAIR	CMD32GX4M4C3000C15(Ver5.30)	8GB	SS	N/A	Heat-Sink Package	15-17-17-35	1.35V	●	●	●
NEO	NFMUD416E8-3000DH2A	16GB	DS	N/A	Heat-Sink Package	15-17-17-35	1.35V	●		●
NEO	NFMUD480E8-3000DH2A	8GB	SS	N/A	Heat-Sink Package	15-17-17-35	1.35V	●	●	●
CORSAIR	CMR16GX4M2C3000C15(Ver4.31)	8GB	SS	N/A	Heat-Sink Package	15-17-17-35	1.35V	●	●	
CORSAIR	CMR32GX4M4C3000C15	8GB	DS	N/A	Heat-Sink Package	15-17-17-35	1.35V	●	●	●
Team	TDRRD48G3000HC16CBK	8GB	DS	N/A	Heat-Sink Package	16-18-18-38	1.35V	●	●	●
Team	TDRGD48G3000HC16CBK	8GB	DS	N/A	Heat-Sink Package	16-18-18-38	1.35V	●	●	●
GALAXY	HOF DDR4-3000	8GB	SS	N/A	Heat-Sink Package	16-18-18-38	1.35V	●	●	
GeIL	GLR416GB3000C15ADC	8GB	SS	N/A	Heat-Sink Package	15-17-17-35	1.35V	●	●	●
G.SKILL	F4-3000C15S-16GVR	16GB	DS	N/A	Heat-Sink Package	15-15-15-35	1.35V	●	●	
NEO	NMUD416E82-3000DB30	16GB	DS	N/A	Heat-Sink Package	15-17-17-35	1.35V	●	●	
NEO	NMUD480E82-3000DB30	8GB	SS	N/A	Heat-Sink Package	15-17-17-35	1.35V	●	●	●
PATRIOT	PV432G300C6QK	8GB	SS	N/A	Heat-Sink Package	16-16-16-36	1.35V	●	●	●
HyperX	HX430C15PB3K4/32	8GB	SS	N/A	Heat-Sink Package	15-17-17-36	1.35V	●	●	●
CRUCIAL	BLT8G4D30AETA.K16FE	8GB	DS	N/A	Heat-Sink Package	15-16-16-35	1.35V	●	●	
PATRIOT	PVE416G300C6KBL	8GB	SS	N/A	Heat-Sink Package	16-16-16-36	1.35V	●	●	●
PATRIOT	PVE48G300C6KRD	4GB	SS	N/A	Heat-Sink Package	16-16-16-36	1.35V	●	●	●
G.SKILL	F4-3000C14Q2-128GVKD	16GB	DS	N/A	Heat-Sink Package	14-14-14-34	1.35V	●	●	
Team	TF3D48G3000HC16CBK	8GB	SS	N/A	Heat-Sink Package	16-18-18-38	1.35V	●	●	●
Team	TF4D48G3000HC16CBK	8GB	SS	N/A	Heat-Sink Package	16-18-18-38	1.35V	●	●	●
GALAXY	N/A	8GB	SS	N/A	Heat-Sink Package	16-18-18-38	1.35V	●	●	
TIGO	TMKU8GF58-3000X	8GB	DS	N/A	Heat-Sink Package	16-18-18-36	1.35V	●	●	●
ADATA	AX4U3000W4G16-BWZ(XMP)	4GB				16-16-16-36	1.35	●	●	
ADATA	AX4U3000W8G16-BWZ(XMP)	8GB				16-16-16-36	1.35	●	●	
Apacer	EK.16GAW.KFBK2(XMP)	8GB				16-16-16-36	-	●	●	
Apacer	AHU08GGB30CDG6H(EK.16GAZ.GEAK2)	8GB				16-16-16-36	1.35	●	●	
Apacer	AHU08GGB30CDU5H(EK.16GAZ.GEB	8GB				16-16-16-36	1.35	●	●	
CORSAIR	CMD16GX4M2B3000C15(Ver4.23)(XMP)	8GB				15-17-17-35	1.35	●	●	
CORSAIR	CMD16GX4M4B3000C15(Ver4.23)(XMP)	4GB				15-17-17-35	1.35	●	●	●
CORSAIR	CMD16GX4M4B3000C15(Ver5.29)(XMP)	4GB				15-17-17-35	1.35	●	●	
CORSAIR	CMD32GX4M2B3000C15(Ver5.39)(XMP)	16GB				15-17-17-35	1.35	●	●	
CORSAIR	CMD32GX4M4B3000C15(Ver4.23)(XMP)	8GB				15-17-17-35	1.35	●	●	●
CORSAIR	CMD32GX4M4C3000C15(Ver3.32)(XMP)	8GB				15-17-17-35	1.35	●	●	●
CORSAIR	CMK16GX4M1B3000C15(Ver3.32)(XMP)	16GB				15-17-17-35	1.35	●	●	
CORSAIR	CMK16GX4M2B3000C15(Ver3.32)(XMP)	8GB				15-17-17-35	1.35	●	●	
CORSAIR	CMK16GX4M2B3000C15(Ver4.23)(XMP)	8GB				15-17-17-35	1.35	●	●	
CORSAIR	CMK16GX4M2B3000C15(Ver5.30)(XMP)	8GB				15-17-17-35	1.35	●	●	
CORSAIR	CMK16GX4M4B3000C15(Ver5.29)(XMP)	4GB				15-17-17-35	1.35	●	●	●
CORSAIR	CMK32GX4M2B3000C15(Ver4.31)(XMP)	16GB				15-17-17-35	1.35	●	●	
CORSAIR	CMK32GX4M4B3000C15(Ver4.24)(XMP)	8GB				15-17-17-35	1.35	●	●	●
CORSAIR	CMK32GX4M4B3000C15(Ver5.29)(XMP)	8GB				15-17-17-35	1.35	●	●	
CORSAIR	CMK8GX4M2B3000C15(Ver4.23)(XMP)	4GB				15-17-17-35	1.35	●	●	
CORSAIR	CMR16GX4M2C3000C15(Ver5.30)(XMP)	8GB				15-17-17-35	1.35	●	●	
CORSAIR	CMR32GX4M4C3000C15(Ver3.32)(XMP)	8GB				15-17-17-35	1.35	●	●	●
CORSAIR	CMR32GX4M4C3000C15(Ver4.31)(XMP)	8GB				15-17-17-35	1.35	●	●	●
CORSAIR	CMU16GX4M2C3000C15(Ver3.21)(XMP)	8GB				15-17-17-35	1.35	●	●	

crucial	BLE4G4D30AEEA.K8FE(XMP)	4GB	15-16-16-35	1.35	●	●		
crucial	BLE8G4D30AEEA.K16FE(XMP)	8GB	15-16-16-35	1.35	●	●		
crucial	BLT4G4D30AETA.K8FE(XMP)	4GB	15-16-16-35	1.35	●	●		
G.SKILL	F4-3000C14Q2-128GVK(XMP)	16GB	14-14-14-34	1.35	●	●	●	
G.SKILL	F4-3000C15D-8GTZB(XMP)	4GB	15-16-16-35	1.35	●	●		
G.SKILL	F4-3000C15Q-16GRK(XMP)	4GB	15-15-15-35	1.35	●	●	●	
G.SKILL	F4-3000C15Q-16GRR(XMP)	4GB	15-15-15-35	1.35	●	●	●	
G.SKILL	F4-3000C16Q2-128GVKB(XMP)	16GB	16-18-18-38	1.35	●	●	●	
GeIL	GLR416GB3000C15ADC(XMP)	8GB	15-17-17-35	1.35	●	●		
GeIL	GLR416GB3000C16QC(XMP)	4GB	16-16-16-36	1.35	●	●	●	
GeIL	GWW416GB3000C15DC(XMP)	8GB	15-17-17-35	1.35	●	●		
Hyper X	HX430C15PB2K4/16(XMP)	4GB	15-16-16-39	1.35	●	●	●	
Hyper X	HX430C15PB3K2/16(XMP)	8GB	15-17-17-36	1.35	●	●	●	
Hyper X	HX430C15PB3K2/32(XMP)	16GB	15-17-17-36	1.35	●	●	●	
Hyper X	HX430C15PB3K2/8(XMP)	4GB	15-17-17-36	1.35	●	●	●	
Hyper X	HX430C15PB3K4/16(XMP)	4GB	15-17-17-36	1.35	●	●	●	
Hyper X	HX430C15PB3K4/64(XMP)	16GB	15-17-17-36	1.35	●	●	●	
Hyper X	HX430C15PB3K8/128(XMP)	16GB	15-17-17-36	1.35	●	●	●	
Hyper X	HX430C15PBK4/32(XMP)	8GB	15-16-16-39	1.35	●	●		
Hyper X	HX430C15SB2/4(XMP)	4GB	15-17-17-39	1.35	●	●	●	
Hyper X	HX430C15SB2K2/8(XMP)	4GB	15-17-17-39	1.35	●	●	●	
Hyper X	HX430C15SB2K4/16(XMP)	4GB	15-17-17-39	1.35	●	●	●	
Hyper X	HX430C15SB2K4/32(XMP)	8GB	15-17-17-39	1.35	●	●	●	
Hyper X	HX430C15SBK2/16(XMP)	8GB	15-16-16-39	1.35	●	●		
Hyper X	HX430C16PBK4/64(XMP)	16GB	16-16-16-39	1.35	●	●	●	
Klevv	IM44GU48N30-FFFHAB(XMP)	4GB	15-15-16-36	1.2	●	●		
Klevv	IM48GU48A30-GIIHMC(XMP)	8GB	16-18-18-36	1.35	●	●		
Klevv	IM48GU88N30-FFFHMB(XMP)	8GB	15-15-16-36	1.2	●	●		
Klevv	IM4AGU88N30-FFFHMB(XMP)	16GB	15-15-16-36	1.2	●	●		
NEO	NFMUD416E8-3000DB2A(XMP)	16GB	15-17-17-35	-	●	●		
NEO	NFMUD416E8-3000DB3A(XMP)	16GB	15-17-17-35	-	●	●		
NEO	NFMUD416E8-3000DC2A(XMP)	16GB	15-17-17-35	-	●	●		
NEO	NFMUD416E8-3000DC3A(XMP)	16GB	15-17-17-35	-	●	●		
NEO	NFMUD416E8-3000DD2A(XMP)	16GB	15-17-17-35	-	●	●		
NEO	NFMUD416E8-3000DD3A(XMP)	16GB	15-17-17-35	-	●	●		
NEO	NFMUD480E8-3000DB2A(XMP)	8GB	15-17-17-35	-	●	●		
NEO	NFMUD480E8-3000DB3A(XMP)	8GB	15-17-17-35	-	●	●		
NEO	NFMUD480E8-3000DC2A(XMP)	8GB	15-17-17-35	-	●	●		
NEO	NFMUD480E8-3000DC3A(XMP)	8GB	15-17-17-35	-	●	●		
NEO	NFMUD480E8-3000DD2A(XMP)	8GB	15-17-17-35	-	●	●		
NEO	NFMUD480E8-3000DD3A(XMP)	8GB	15-17-17-35	-	●	●		
PATRIOT	PV416G300C6K	8GB	16-16-16-36	-	●	●		
PATRIOT	PV48G300C6K	4GB	16-16-16-36	1.35	●	●		
Team	TLRED416G3000HC16CQC01	4GB	16-18-18-38	1.35	●	●		
Team	TLGD416G3000HC16CQC01	4GB	16-18-18-38	1.35	●	●		
Team	TDRED416G3000HC16CQC01	4GB	16-18-18-38	1.35	●	●		
Team	TDGED416G3000HC16CQC01	4GB	16-18-18-38	1.35	●	●		
Team	TLRED48G3000HC16CDC01	4GB	16-18-18-38	1.35	●	●		
Team	TLGD48G3000HC16CDC01	4GB	16-18-18-38	1.35	●	●		
Team	TDRED48G3000HC16CDC01	4GB	16-18-18-38	1.35	●	●		
Team	TDGED48G3000HC16CDC01	4GB	16-18-18-38	1.35	●	●		
Team	TLRED432G3000HC16CQC01	8GB	16-18-18-38	1.35	●	●		
Team	TLGD432G3000HC16CQC01	8GB	16-18-18-38	1.35	●	●		
Team	TDRED432G3000HC16CQC01	8GB	16-18-18-38	1.35	●	●		
Team	TDGED432G3000HC16CQC01	8GB	16-18-18-38	1.35	●	●		
Team	TDPRD432G3000HC16CQC01	8GB	16-18-18-38	1.35	●	●		
Team	TDPGD432G3000HC16CQC01	8GB	16-18-18-38	1.35	●	●		
Team	THRD432G3000HC16CQC01	8GB	16-18-18-38	1.35	●	●		
Team	THWD432G3000HC16CQC01	8GB	16-18-18-38	1.35	●	●		
Team	THBD432G3000HC16CQC01	8GB	16-18-18-38	1.35	●	●		
Team	TDTRD432G3000HC16CQC01	8GB	16-18-18-38	1.35	●	●		
Team	TDTWD432G3000HC16CQC01	8GB	16-18-18-38	1.35	●	●		
Team	TDTBD432G3000HC16CQC01	8GB	16-18-18-38	1.35	●	●		
Team	TLRED416G3000HC16CDC01	8GB	16-18-18-38	1.35	●	●		
Team	TLGD416G3000HC16CDC01	8GB	16-18-18-38	1.35	●	●		
Team	TDRED416G3000HC16CDC01	8GB	16-18-18-38	1.35	●	●		
Team	TDGED416G3000HC16CDC01	8GB	16-18-18-38	1.35	●	●		
Team	TDPRD416G3000HC16CDC01	8GB	16-18-18-38	1.35	●	●		
Team	TDPGD416G3000HC16CDC01	8GB	16-18-18-38	1.35	●	●		
Team	THRD416G3000HC16CDC01	8GB	16-18-18-38	1.35	●	●		
Team	THWD416G3000HC16CDC01	8GB	16-18-18-38	1.35	●	●		
Team	THBD416G3000HC16CDC01	8GB	16-18-18-38	1.35	●	●		
Team	TDTRD416G3000HC16CDC01	8GB	16-18-18-38	1.35	●	●		
Team	TDTWD416G3000HC16CDC01	8GB	16-18-18-38	1.35	●	●		
Team	TDTBD416G3000HC16CDC01	8GB	16-18-18-38	1.35	●	●		
Team	TDPRD464G3000HC16CQC01	16G	16-18-18-38	1.35	●	●		
Team	TDPGD464G3000HC16CQC01	16G	16-18-18-38	1.35	●	●		
Team	THRD464G3000HC16CQC01	16G	16-18-18-38	1.35	●	●		
Team	THWD464G3000HC16CQC01	16G	16-18-18-38	1.35	●	●		
Team	THBD464G3000HC16CQC01	16G	16-18-18-38	1.35	●	●		
Team	TDTRD464G3000HC16CQC01	16G	16-18-18-38	1.35	●	●		
Team	TDTWD464G3000HC16CQC01	16G	16-18-18-38	1.35	●	●		
Team	TDTBD464G3000HC16CQC01	16G	16-18-18-38	1.35	●	●		
Team	TDPRD432G3000HC16CDC01	16G	16-18-18-38	1.35	●	●		
Team	TDPGD432G3000HC16CDC01	16G	16-18-18-38	1.35	●	●		
Team	THRD432G3000HC16CDC01	16G	16-18-18-38	1.35	●	●		
Team	THWD432G3000HC16CDC01	16G	16-18-18-38	1.35	●	●		
Team	THBD432G3000HC16CDC01	16G	16-18-18-38	1.35	●	●		
Team	TDTRD432G3000HC16CDC01	16G	16-18-18-38	1.35	●	●		
Team	TDTWD432G3000HC16CDC01	16G	16-18-18-38	1.35	●	●		
Team	TDTBD432G3000HC16CDC01	16G	16-18-18-38	1.35	●	●		
V-corlor	TL48G30S816RGB(XMP)	8GB	16-18-18-38	1.35	●	●		

DDR4 3200 Qualified Vendors List (QVL)

Vendors	Part No	Size	SS/DS	Chip Brand	Chip NO	Timing	Voltage	DIMM socket support (Optional

Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	1 DIMM	2 DIMM	4 DIMM
MUSHKIN	997202F	4GB	SS	N/A	Heat-Sink Package	15-15-15-36	1.2V			●
G.SKILL	F4-3200C16D-8GVKB	4GB	SS	N/A	Heat-Sink Package	16-18-18-38	1.35V			●
PATRIOT	PV48G320C6K	4GB	SS	N/A	Heat-Sink Package		1.35V			●
HyperX	HX432C16PB3K4/32	8GB	SS	N/A	Heat-Sink Package	16-18-18-36	1.35V			●
ADATA	AX4U3200W8G16-BGZ		DS	N/A	Heat-Sink Package	16-16-16	1.35V		●	
G.SKILL	F4-3200C16D-16GTZR	8GB	SS	N/A	Heat-Sink Package	18-18-18-38	1.35V			●
CORSAIR	CMD16GX4M2B3200C16(Ver3.21)	16G	DS	N/A	Heat-Sink Package	16-18-18-36	1.35V		●	
TIGO	TMKU8GF58-3200X	8GB	DS	N/A	Heat-Sink Package	16-18-18-38	1.35V		●	
G.SKILL	F4-3200C14Q-32GFX	8GB	SS	N/A	Heat-Sink Package	14-14-14-34	1.35V			●
CORSAIR	CMK64GX4M8B3200C16(Ver4.31)	16G	DS	N/A	Heat-Sink Package	16-18-18-36	1.35V		●	
Team	TF1D48G3200HC16CBK	8GB	SS	N/A	Heat-Sink Package	16-18-18-38	1.35V			●
Team	TF2D48G3200HC16CBK	8GB	SS	N/A	Heat-Sink Package	16-18-18-38	1.35V			●
G.SKILL	F4-3200C16Q-32GTZR	8GB	SS	N/A	Heat-Sink Package	16-18-18-38	1.35V			●
CORSAIR	CMK64GX4M8B3200C16(Ver4.31)	8GB	DS	N/A	Heat-Sink Package	16-18-18-36	1.35V		●	
G.SKILL	F4-3200C16D-16GTZ	8GB	DS	N/A	Heat-Sink Package	16-16-16-36	1.35V		●	
G.SKILL	F4-3200C16S-8GRKB	8GB	SS	N/A	Heat-Sink Package	16-18-18-38	1.35V		●	●
G.SKILL	F4-3200C16D-8GRK	4GB	SS			16-16-16-36	1.35V		●	
G.SKILL	F4-3200C16D-8GTZ	4GB	SS			16-16-16-36	1.35V		●	
G.SKILL	F4-3200C16D-8GVK	4GB	SS			16-16-16-36	1.35V		●	
G.SKILL	F4-3200C16Q-16GRR	4GB	SS			16-16-16-36	1.35V		●	●
G.SKILL	F4-3200C16Q-16GRB	4GB	SS			16-16-16-36	1.35V		●	●
G.SKILL	F4-3200C16Q-16GRKD	4GB	SS			16-16-16-36	1.35V		●	●
G.SKILL	F4-3200C16Q-16GTZ	4GB	SS			16-16-16-36	1.35V		●	●
G.SKILL	F4-3200C16Q-16GVK	4GB	SS			16-16-16-36	1.35V		●	●
G.SKILL	F4-3200C16D-16GRK	8GB	DS			16-16-16-36	1.35V		●	
G.SKILL	F4-3200C16D-16GVR	8GB	DS			16-16-16-36	1.35V		●	
G.SKILL	F4-3200C16D-16GVK	8GB	DS			16-16-16-36	1.35V		●	
G.SKILL	F4-3200C16D-16GVS	8GB	DS			16-16-16-36	1.35V		●	
G.SKILL	F4-3200C16D-16GVKB	8GB	SS			16-18-18-38	1.35V		●	
G.SKILL	F4-3200C16D-16GVGB	8GB	SS			16-18-18-38	1.35V		●	
G.SKILL	F4-3200C16D-16GTZLG	8GB	SS			16-18-18-38	1.35V		●	
G.SKILL	F4-3200C16D-16GTZLO	8GB	SS			16-18-18-38	1.35V		●	
G.SKILL	F4-3200C16D-16GTZB	8GB	SS			16-18-18-38	1.35V		●	
G.SKILL	F4-3200C16D-16GTZKW	8GB	SS			16-18-18-38	1.35V		●	
G.SKILL	F4-3200C16D-16GTZKY	8GB	SS			16-18-18-38	1.35V		●	
G.SKILL	F4-3200C16D-6GTZKO	8GB	SS			16-18-18-38	1.35V		●	
G.SKILL	F4-3200C16D-16GTZSW	8GB	SS			16-18-18-38	1.35V		●	
G.SKILL	F4-3200C16D-16GTZSK	8GB	SS			16-18-18-38	1.35V		●	
G.SKILL	F4-3200C15D-16GVR	8GB	SS			15-15-15-35	1.35V		●	
G.SKILL	F4-3200C15D-16GVK	8GB	SS			15-15-15-35	1.35V		●	
G.SKILL	F4-3200C15D-16GTZ	8GB	SS			15-15-15-35	1.35V		●	
G.SKILL	F4-3200C15D-16GTZKW	8GB	SS			15-15-15-35	1.35V		●	
G.SKILL	F4-3200C15D-16GTZKY	8GB	SS			15-15-15-35	1.35V		●	
G.SKILL	F4-3200C15D-6GTZKO	8GB	SS			15-15-15-35	1.35V		●	
G.SKILL	F4-3200C15D-16GTZSW	8GB	SS			15-15-15-35	1.35V		●	
G.SKILL	F4-3200C15D-16GTZSK	8GB	SS			15-15-15-35	1.35V		●	
G.SKILL	F4-3200C14D-16GVR	8GB	SS			14-14-14-34	1.35V		●	
G.SKILL	F4-3200C14D-16GVK	8GB	SS			14-14-14-34	1.35V		●	
G.SKILL	F4-3200C14D-16GTZ	8GB	SS			14-14-14-34	1.35V		●	
G.SKILL	F4-3200C14D-16GTZKW	8GB	SS			14-14-14-34	1.35V		●	
G.SKILL	F4-3200C14D-16GTZKY	8GB	SS			14-14-14-34	1.35V		●	
G.SKILL	F4-3200C14D-6GTZKO	8GB	SS			14-14-14-34	1.35V		●	
G.SKILL	F4-3200C14D-16GTZSW	8GB	SS			14-14-14-34	1.35V		●	
G.SKILL	F4-3200C14D-16GTZSK	8GB	SS			14-14-14-34	1.35V		●	
G.SKILL	F4-3200C15D-32GRK	16GB	DS			15-15-15-35	1.35V		●	
G.SKILL	F4-3200C15D-32GTZ	16GB	DS			15-15-15-35	1.35V		●	
G.SKILL	F4-3200C15D-32GVK	16GB	DS			15-15-15-35	1.35V		●	
G.SKILL	F4-3200C15D-32GVR	16GB	DS			15-15-15-35	1.35V		●	
G.SKILL	F4-3200C16D-32GRK	16GB	DS			16-18-18-38	1.35V		●	
G.SKILL	F4-3200C16D-32GTZA	16GB	DS			16-16-16-36	1.35V		●	
G.SKILL	F4-3200C16D-32GVK	16GB	DS			16-18-18-38	1.35V		●	
G.SKILL	F4-3200C16D-32GVKA	16GB	DS			16-16-16-36	1.35V		●	
G.SKILL	F4-3200C16D-32GTZ	16GB	DS			16-18-18-38	1.35V		●	
G.SKILL	F4-3200C16D-32GTZKW	16GB	DS			16-18-18-38	1.35V		●	
G.SKILL	F4-3200C16D-32GTZKY	16GB	DS			16-18-18-38	1.35V		●	
G.SKILL	F4-3200C16D-32GTZKO	16GB	DS			16-18-18-38	1.35V		●	
G.SKILL	F4-3200C16D-32GTZSW	16GB	DS			16-18-18-38	1.35V		●	
G.SKILL	F4-3200C16D-32GTZSK	16GB	DS			16-18-18-38	1.35V		●	
G.SKILL	F4-3200C15D-32GTZ	16GB	DS			15-15-15-35	1.35V		●	
G.SKILL	F4-3200C15D-32GTZKW	16GB	DS			15-15-15-35	1.35V		●	
G.SKILL	F4-3200C15D-32GTZKY	16GB	DS			15-15-15-35	1.35V		●	
G.SKILL	F4-3200C15D-32GTZKO	16GB	DS			15-15-15-35	1.35V		●	
G.SKILL	F4-3200C15D-32GTZSW	16GB	DS			15-15-15-35	1.35V		●	
G.SKILL	F4-3200C15D-32GTZSK	16GB	DS			15-15-15-35	1.35V		●	
G.SKILL	F4-3200C14D-32GVR	16GB	DS			14-14-14-34	1.35V		●	
G.SKILL	F4-3200C14D-32GVK	16GB	DS			14-14-14-34	1.35V		●	
G.SKILL	F4-3200C14D-32GTZ	16GB	DS			14-14-14-34	1.35V		●	
G.SKILL	F4-3200C14D-32GTZKW	16GB	DS			14-14-14-34	1.35V		●	
G.SKILL	F4-3200C14D-32GTZKY	16GB	DS			14-14-14-34	1.35V		●	
G.SKILL	F4-3200C14D-32GTZKO	16GB	DS			14-14-14-34	1.35V		●	
G.SKILL	F4-3200C14D-32GTZSW	16GB	DS			14-14-14-34	1.35V		●	
G.SKILL	F4-3200C14D-32GTZSK	16GB	DS			14-14-14-34	1.35V		●	
G.SKILL	F4-3200C16D-32GVK	16GB	DS			16-18-18-38	1.35V		●	
G.SKILL	F4-3200C16Q-32GRK	8GB	DS			16-16-16-36	1.35V		●	●
G.SKILL	F4-3200C16Q-32GVK	8GB	DS			16-16-16-36	1.35V		●	●
G.SKILL	F4-3200C16Q-32GVKB	8GB	SS			16-18-18-38	1.35V		●	●
G.SKILL	F4-3200C16Q-32GTZB	8GB	SS			16-18-18-38	1.35V		●	●
G.SKILL	F4-3200C16Q-32GTZKW	8GB	SS			16-18-18-38	1.35V		●	●
G.SKILL	F4-3200C16Q-32GTZKY	8GB	SS			16-18-18-38	1.35V		●	●
G.SKILL	F4-3200C16Q-32GTZKO	8GB	SS			16-18-18-38	1.35V		●	●
G.SKILL	F4-3200C16Q-32GTZSW	8GB	SS			16-18-18-38	1.35V		●	●
G.SKILL	F4-3200C16Q-32GTZSK	8GB	SS			16-18-18-38	1.35V		●	●
G.SKILL	F4-3200C15Q-32GVR	8GB	SS			15-15-15-35	1.35V		●	●
G.SKILL	F4-3200C15Q-32GVK	8GB	SS			15-15-15-35	1.35V		●	●

G.SKILL	F4-3200C15Q-32GTZ	8GB	SS	15-15-15-35	1.35V	●	●
G.SKILL	F4-3200C15Q-32GTZSW	8GB	SS	15-15-15-35	1.35V	●	●
G.SKILL	F4-3200C14Q-32GVR	8GB	SS	14-14-14-34	1.35V	●	●
G.SKILL	F4-3200C14Q-32GVK	8GB	SS	14-14-14-34	1.35V	●	●
G.SKILL	F4-3200C14Q-32GTZ	8GB	SS	14-14-14-34	1.35V	●	●
G.SKILL	F4-3200C14Q-32GTZSW	8GB	SS	14-14-14-34	1.35V	●	●
G.SKILL	F4-3200C16Q-32GVK	8GB	DS	16-16-16-36	1.35V	●	●
G.SKILL	F4-3200C14Q-32GTZR	8GB	SS	14-14-14-34	1.35V	●	●
G.SKILL	F4-3200C16Q-64GRK	16GB	DS	16-18-18-38	1.35V	●	●
G.SKILL	F4-3200C16Q-64GVK	16GB	DS	16-18-18-38	1.35V	●	●
G.SKILL	F4-3200C16Q-64GTZ	16GB	DS	16-18-18-38	1.35V	●	●
G.SKILL	F4-3200C16Q-64GTZKW	16GB	DS	16-18-18-38	1.35V	●	●
G.SKILL	F4-3200C16Q-64GTZKY	16GB	DS	16-18-18-38	1.35V	●	●
G.SKILL	F4-3200C16Q-64GTZKO	16GB	DS	16-18-18-38	1.35V	●	●
G.SKILL	F4-3200C16Q-64GTZSW	16GB	DS	16-18-18-38	1.35V	●	●
G.SKILL	F4-3200C16Q-64GTZSK	16GB	DS	16-18-18-38	1.35V	●	●
G.SKILL	F4-3200C15Q-64GVR	16GB	DS	15-15-15-35	1.35V	●	●
G.SKILL	F4-3200C15Q-64GVK	16GB	DS	15-15-15-35	1.35V	●	●
G.SKILL	F4-3200C15Q-64GTZ	16GB	DS	15-15-15-35	1.35V	●	●
G.SKILL	F4-3200C15Q-64GTZSW	16GB	DS	15-15-15-35	1.35V	●	●
G.SKILL	F4-3200C14Q-64GVR	16GB	DS	14-14-14-34	1.35V	●	●
G.SKILL	F4-3200C14Q-64GVK	16GB	DS	14-14-14-34	1.35V	●	●
G.SKILL	F4-3200C14Q-64GTZ	16GB	DS	14-14-14-34	1.35V	●	●
G.SKILL	F4-3200C14Q-64GTZSW	16GB	DS	14-14-14-34	1.35V	●	●
G.SKILL	F4-3200C16Q-64GVK	16GB	DS	16-18-18-38	1.35V	●	●
G.SKILL	F4-3200C14Q-64GVR	16GB	DS	14-14-14-34	1.35V	●	●
G.SKILL	F4-3200C14Q-64GTZR	16GB	DS	14-14-14-34	1.35V	●	●
G.SKILL	F4-3200C15Q-64GTZR	16GB	DS	15-15-15-35	1.35V	●	●
CORSAIR	CMK8GX4M2B3200C16 ver4.24	4GB	SS	16-18-18-36	1.35V	●	
CORSAIR	CMD8GX4M2B3200C16 ver4.24	4GB	SS	16-18-18-36	1.35V	●	
CORSAIR	CMD8GX4M2B3200C14 ver4.24	4GB	SS	14-16-16-35	1.35V	●	
CORSAIR	CMU16GX4M2C3200C16 ver4.24	8GB	DS	16-18-18-36	1.35V	●	
CORSAIR	CMU16GX4M2C3200C16 ver5.39	8GB	SS	16-18-18-36	1.35V	●	
CORSAIR	CMK16GX4M2B3200C16 ver4.31	8GB	SS	16-18-18-36	1.35V	●	
CORSAIR	CMK16GX4M2B3200C16 ver4.24	8GB	DS	16-18-18-36	1.35V	●	
CORSAIR	CMK16GX4M2B3200C14 ver4.24	8GB	DS	14-16-16-35	1.35V	●	
CORSAIR	CMR16GX4M2C3200C16 ver4.31	8GB	SS	16-18-18-36	1.35V	●	●
CORSAIR	CMR16GX4M2D3200C16 ver4.31	8GB	SS	16-18-18-36	1.35V	●	●
CORSAIR	CMD16GX4M4B3200C15 ver4.24	4GB	SS	15-17-17-35	1.35V	●	●
CORSAIR	CMD16GX4M4B3200C16 ver4.24	4GB	SS	16-18-18-36	1.35V	●	●
CORSAIR	CMD16GX4M4B3200C14 ver4.24	4GB	SS	14-16-16-35	1.35V	●	●
CORSAIR	CMK16GX4M4B3200C16 ver4.24	4GB	SS	16-18-18-36	1.35V	●	●
CORSAIR	CMK16GX4M4B3200C15 ver4.24	4GB	SS	15-17-17-35	1.35V	●	●
CORSAIR	CMK16GX4M4C3200C15 ver4.24	4GB	SS	15-17-17-35	1.35V	●	●
CORSAIR	CMK16GX4M4B3200C14 ver4.24	4GB	SS	14-16-16-35	1.35V	●	●
CORSAIR	CMD32GX4M2B3200C16 ver4.31	16GB	DS	16-18-18-36	1.35V	●	
CORSAIR	CMD32GX4M2C3200C16C ver4.31	16GB	DS	16-18-18-36	1.35V	●	
CORSAIR	CMU32GX4M2C3200C16 ver4.31	16GB	DS	16-18-18-36	1.35V	●	
CORSAIR	CMU32GX4M2C3200C16 ver5.39	16GB	DS	16-18-18-36	1.35V	●	
CORSAIR	CMR32GX4M2C3200C16 ver5.39	16GB	DS	16-18-18-36	1.35V	●	
CORSAIR	CMK32GX4M2B3200C16 ver4.31	16GB	DS	16-18-18-36	1.35V	●	
CORSAIR	CMK32GX4M2B3200C14 ver4.31	16GB	DS	14-16-16-35	1.35V	●	
CORSAIR	CMK32GX4M2B3200C16 ver5.39	8GB	DS	16-18-18-36	1.35V	●	
CORSAIR	CMD32GX4M4C3200C14C ver4.31	8GB	SS	14-16-16-35	1.35V	●	●
CORSAIR	CMD32GX4M4B3200C16 ver4.24	8GB	DS	16-18-18-36	1.35V	●	●
CORSAIR	CMD32GX4M2C3200C16 ver5.39	8GB	DS	16-18-18-36	1.35V	●	●
CORSAIR	CMK32GX4M4B3200C16 ver4.31	8GB	SS	16-18-18-36	1.35V	●	●
CORSAIR	CMK32GX4M4B3200C16 ver4.24	8GB	DS	16-18-18-36	1.35V	●	●
CORSAIR	CMK32GX4M4B3200C14 ver4.24	8GB	DS	14-16-16-35	1.35V	●	●
CORSAIR	CMK32GX4M4D3200C16 ver3.31	8GB	SS	16-18-18-36	1.35V	●	●
CORSAIR	CMU32GX4M4C3200C16 ver5.39	8GB	SS	16-18-18-36	1.35V	●	●
CORSAIR	CMU32GX4M4C3200C16 ver4.31	8GB	SS	16-18-18-36	1.35V	●	●
CORSAIR	CMR32GX4M4C3200C16 ver4.31	8GB	SS	16-18-18-36	1.35V	●	●
CORSAIR	CMR32GX4M4D3200C16 ver4.31	8GB	SS	16-18-18-36	1.35V	●	●
CORSAIR	CMD64GX4M4B3200C16 ver4.31	16GB	DS	16-18-18-36	1.35V	●	●
CORSAIR	CMD64GX4M4C3200C16 ver5.39	16GB	DS	16-18-18-36	1.35V	●	●
CORSAIR	CMK64GX4M4B3200C16 ver4.31	16GB	DS	16-18-18-36	1.35V	●	●
CORSAIR	CMK64GX4M4B3200C16 ver5.39	16GB	DS	16-18-18-36	1.35V	●	●
CORSAIR	CMU64GX4M4B3200C16 ver4.31	16GB	DS	16-18-18-36	1.35V	●	●
CORSAIR	CMU64GX4M4B3200C16 ver5.39	16GB	DS	16-18-18-36	1.35V	●	●
CORSAIR	CMR64GX4M4C3200C16 ver4.31	16GB	DS	16-18-18-36	1.35V	●	●
CORSAIR	CMR64GX4M4C3200C16 ver5.39	16GB	DS	16-18-18-36	1.35V	●	●
KINGSTON	HX432C16PB3K4/16	4GB	SS	16-18-18-36	1.35V	●	●
KINGSTON	HX432C16PB3K4/32	8GB	SS	16-18-18-36	1.35V	●	●
GEIL	GEX416GB3200C16DC	8GB	SS	16-16-16-36	1.35V	●	
APACER	AHU08GGB32CDU5H(EK.16GA1.GEB	8GB	SS	16-18-18-38	1.35V	●	
APACER	AHU08GGB32CDU6H(EK.16GA1.GEA	8GB	SS	16-18-18-38	1.35V	●	
APACER	AHU16GGB32CDU5H(EK.32GA1.GEB	16GB	DS	16-18-18-38	1.35V	●	
APACER	AHU16GGB32CDU6H(EK.32GA1.GEA	16GB	DS	16-18-18-38	1.35V	●	
FORZA	NFMUD480E8-3200DH2A	8GB	SS	16-18-18-36	1.35V	●	
ADATA	AX4U320038G16-BRS	8GB	SS	16-18-18-36	1.35V	●	●
TEAMGROUP	TF1D416G3200HC16CDC01	8GB	SS	16-18-18-38	1.35V	●	
TEAMGROUP	TF2D416G3200HC16CDC01	8GB	SS	16-18-18-38	1.35V	●	
SUPERTALENT	F3200UB4G	4GB	SS	16-18-18-36	1.35V	●	●
SUPERTALENT	F3200UB16G	16GB	DS	16-18-18-36	1.35V	●	●
PATRIOT	PV416G320C6K	8GB	SS	16-16-16-36	1.35V	●	
PATRIOT	PVE416G320C6KGY	8GB	SS	16-16-16-36	1.35V	●	
PATRIOT	PV432G320C6K	16GB	SS	16-16-16-36	1.35V	●	
KLEVV	IM48GU88A32-GIISEZ	32GB(8GB*4)	DS	16-18-18-38	1.35V ●	●	
APACER	AHU08GGB32CKU7M	8GB	SS	16-18-18-38	1.35V	●	●

Hyper X	HX432C18FBK2/16	16GB(8GB*2)	SS			18-21-21-39	1.2V	●	●
Hyper X	HX432C18FBK2/32	32GB(16GB*2)	DS			18-21-21-39	1.2V	●	●
KINGMAX	GZOG43F-18SIGP	8GB	SS			16-18-18-38	1.35V	●	●
ZADAK	ZD4-SHA3200C16-08GAS	8GB	SS			16-18-18-38	1.35V	●	●
V-COLOR	TL48G32S8CRGB16	8GB	SS			16-18-18-38	1.35V	●	●

DDR4 3300 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	DIMM socket support (Optional)		
								1 DIMM	2 DIMM	4 DIMM
ADATA	AX4U3333W4G16-QGZ	8GB	SS	N/A	Heat-Sink Package	16-16-16	1.35V			●
G.SKILL	F4-3300C16Q-16GRKD	4GB	SS	N/A	Heat-Sink Package	16-16-16-36	1.35V			●
G.SKILL	F4-3333C16Q-16GRKD	4GB	SS			16-18-18-36	1.35V		●	●
G.SKILL	F4-3333C16D-16GVR	8GB	SS			16-16-16-36	1.35V		●	
G.SKILL	F4-3333C16D-16GVK	8GB	SS			16-16-16-36	1.35V		●	
G.SKILL	F4-3333C16D-16GTZ	8GB	SS			16-16-16-36	1.35V		●	
G.SKILL	F4-3333C16D-16GTZB	8GB	SS			16-18-18-38	1.35V		●	
G.SKILL	F4-3333C16D-16GTZKW	8GB	SS			16-18-18-38	1.35V		●	
G.SKILL	F4-3333C16D-16GTZSW	8GB	SS			16-18-18-38	1.35V		●	
G.SKILL	F4-3333C16D-16GTZSK	8GB	SS			16-18-18-38	1.35V		●	
G.SKILL	F4-3333C16Q-32GVR	8GB	SS			16-16-16-36	1.35V		●	●
G.SKILL	F4-3333C16Q-32GVK	8GB	SS			16-16-16-36	1.35V		●	●
G.SKILL	F4-3333C16Q-32GTZ	8GB	SS			16-16-16-36	1.35V		●	●
G.SKILL	F4-3333C16Q-32GTZB	8GB	SS			16-18-18-38	1.35V		●	●
G.SKILL	F4-3333C16Q-32GTZSW	8GB	SS			16-18-18-38	1.35V		●	●
G.SKILL	F4-3333C16D-32GVR	16GB	DS			16-16-16-36	1.35V		●	
G.SKILL	F4-3333C16D-32GVK	16GB	DS			16-16-16-36	1.35V		●	
G.SKILL	F4-3333C16D-32GTZ	16GB	DS			16-16-16-36	1.35V		●	
G.SKILL	F4-3333C16D-32GTZB	16GB	DS			16-18-18-38	1.35V		●	
G.SKILL	F4-3333C16D-32GTZKW	16GB	DS			16-18-18-38	1.35V		●	
G.SKILL	F4-3333C16D-32GTZSW	16GB	DS			16-18-18-38	1.35V		●	
G.SKILL	F4-3333C16D-32GTZSK	16GB	DS			16-18-18-38	1.35V		●	
G.SKILL	F4-3333C16Q-64GVR	16GB	DS			16-16-16-36	1.35V		●	●
G.SKILL	F4-3333C16Q-64GVK	16GB	DS			16-16-16-36	1.35V		●	●
G.SKILL	F4-3333C16Q-64GTZ	16GB	DS			16-16-16-36	1.35V		●	●
G.SKILL	F4-3333C16Q-64GTZB	16GB	DS			16-18-18-38	1.35V		●	●
G.SKILL	F4-3333C16Q-64GTZSW	16GB	DS			16-18-18-38	1.35V		●	●
CORSAIR	CMD16GX4M2B3333C16 ver4.31	8GB	SS			16-18-18-36	1.35V		●	
CORSAIR	CMK16GX4M2C3333C16 ver4.31	8GB	SS			16-18-18-36	1.35V		●	
CORSAIR	CMK16GX4M2B3333C16 ver4.24	8GB	DS			16-18-18-36	1.35V		●	
CORSAIR	CMD16GX4M4B3333C16 ver4.24	4GB	SS			16-18-18-36	1.35V		●	●
CORSAIR	CMK16GX4M4B3333C16 ver4.24	4GB	SS			16-18-18-36	1.35V		●	●
CORSAIR	CMK16GX4M4B3333C16R ver4.24	4GB	SS			16-18-18-36R	1.35V		●	●
CORSAIR	CMD32GX4M2B3333C16 ver4.31	16GB	DS			16-18-18-36	1.35V		●	
CORSAIR	CMD32GX4M4B3333C16 ver4.31	8GB	SS			16-18-18-36	1.35V		●	●
CORSAIR	CMR32GX4M2C3333C16 ver4.31	16GB	DS			16-18-18-36	1.35V		●	
CORSAIR	CMR32GX4M4C3333C16 ver4.31	8GB	SS			16-18-18-36	1.35V		●	●
CORSAIR	CMK32GX4M2B3333C16 ver4.31	8GB	DS			16-18-18-36	1.35V		●	
CORSAIR	CMK32GX4M4B3333C16 ver4.31	8GB	SS			16-18-18-36	1.35V		●	●
CORSAIR	CMD64GX4M4B3333C16 ver4.31	16GB	DS			16-18-18-36	1.35V		●	●
CORSAIR	CMR64GX4M4C3333C16 ver4.31	16GB	DS			16-18-18-36	1.35V		●	●
CORSAIR	CMK64GX4M4B3333C16 ver4.31	16GB	DS			16-18-18-36	1.35V		●	●
CORSAIR	CMK64GX4M4B3333C16R ver4.31	16GB	DS			16-18-18-36R	1.35V		●	●
A-DATA	AX4U3333W4G16	4GB	SS			16-16-16-36	1.35V		●	
KINGSTON	HX433C16PB3K4/32	8GB	SS			16-18-18-36	1.35V		●	●
KINGSTON	HX433C16PB3K2/16	8GB	SS			16-18-18-36	1.35V		●	

DDR4 3400 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	DIMM socket support (Optional)		
								1 DIMM	2 DIMM	4 DIMM
CORSAIR	CMU32GX4M4C3400C16R (	8GB	SS	N/A	Heat-Sink Package	16-18-18-36	1.35V			●
G.SKILL	F4-3466C16Q2-64GTZ	8GB	SS	N/A	Heat-Sink Package	16-18-18-38	1.35V			●
G.SKILL	F4-3400C16D-16GRK	8GB	DS			16-18-18-38	1.35V		●	
G.SKILL	F4-3400C16D-16GTZ	8GB	DS			16-18-18-38	1.35V		●	
G.SKILL	F4-3400C16D-16GVK	8GB	DS			16-18-18-38	1.35V		●	
G.SKILL	F4-3400C16D-32GRK	16GB	DS			16-18-18-38	1.35V		●	
G.SKILL	F4-3400C16D-32GVR	16GB	DS			16-16-16-36	1.35V		●	
G.SKILL	F4-3400C16D-32GVK	16GB	DS			16-16-16-36	1.35V		●	
G.SKILL	F4-3400C16D-32GTZ	16GB	DS			16-16-16-36	1.35V		●	
G.SKILL	F4-3400C16D-32GVK	16GB	DS			16-18-18-38	1.35V		●	
G.SKILL	F4-3400C16Q-16GRBD	4GB	SS			16-18-18-38	1.35V		●	●
G.SKILL	F4-3400C16Q-16GRKD	4GB	SS			16-16-16-36	1.35V		●	●
G.SKILL	F4-3400C16Q-16GRBD	4GB	SS			16-18-18-38	1.35V		●	●
G.SKILL	F4-3400C16Q-32GRK	8GB	DS			16-18-18-38	1.35V		●	●
G.SKILL	F4-3400C16Q-32GVK	8GB	DS			16-18-18-38	1.35V		●	●
G.SKILL	F4-3400C16Q-32GTZ	8GB	DS			16-18-18-38	1.35V		●	●
G.SKILL	F4-3400C16Q-32GTZSW	8GB	DS			16-18-18-38	1.35V		●	●
G.SKILL	F4-3400C16Q-32GVK	8GB	DS			16-18-18-38	1.35V		●	●
G.SKILL	F4-3400C16Q-64GRK	16GB	DS			16-18-18-38	1.35V		●	●
G.SKILL	F4-3400C16Q-64GVR	16GB	DS			16-16-16-36	1.35V		●	●
G.SKILL	F4-3400C16Q-64GVK	16GB	DS			16-16-16-36	1.35V		●	●
G.SKILL	F4-3400C16Q-64GTZ	16GB	DS			16-16-16-36	1.35V		●	●
G.SKILL	F4-3400C16Q-64GVK	16GB	DS			16-18-18-38	1.35V		●	●
CORSAIR	CMD16GX4M4B3400C16 ver. 4.24	4GB	SS			16-18-18-40	1.35V		●	
CORSAIR	CMR16GX4M2C3400C16 ver. 4.31	8GB	SS			16-18-18-36	1.35V		●	●
CORSAIR	CMK16GX4M4B3400C16 ver. 4.23	4GB	SS			16-18-18-36	1.35V		●	●
CORSAIR	CMK16GX4M2B3400C16 ver. 4.23	8GB	DS			16-18-18-36	1.35V		●	●
CORSAIR	CMR32GX4M4C3400C16 ver. 4.31	8GB	SS			16-18-18-36	1.35V		●	●
CORSAIR	CMU32GX4M4B3400C16 ver. 4.31	8GB	SS			16-18-18-36	1.35V		●	●
CORSAIR	CMU32GX4M4C3400C16 ver. 4.31	8GB	SS			16-18-18-36	1.35V		●	●
CORSAIR	CMU32GX4M4B3400C16R ver. 4.31	8GB	SS			16-18-18-36R	1.35V		●	●
CORSAIR	CMU32GX4M4C3400C16R ver. 4.31	8GB	SS			16-18-18-36R	1.35V		●	●
CORSAIR	CMK32GX4M4B3400C16 ver. 4.23	8GB	DS			16-18-18-36	1.35V		●	●

CORSAIR	CMK32GX4M4C3400C16 ver. 4.23	8GB	DS			16-18-18-36	1.35V	●	●
CORSAIR	CMK32GX4M4C3400C16R ver. 4.23	8GB	DS			16-18-18-36R	1.35V	●	●
PATRIOT	PV48G340C6K	4GB	SS			16-18-18-36	1.35V	●	
PATRIOT	PV416G340C6K	8GB	SS			16-18-18-36	1.35V	●	
BTM	J4AGUH1G8UJBC	16GB	DS			17-18-18-36	1.35V	●	●

DDR4 3466 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	DIMM socket support (Optional)		
								1 DIMM	2 DIMM	4 DIMM
CORSAIR	CMD16GX4M4B3466C18（Ver4.23）	16GB (4GB*4)	SS	N/A	Heat-Sink Package	18-19-19-39	1.35V			●
G.SKILL	F4-3466C16Q2-64GTZ	8GB	SS	N/A	Heat-Sink Package	16-18-18-38	1.35V			●
G.SKILL	F4-3466C16D-8GRK	4GB	SS			16-18-18-38	1.35V		●	
G.SKILL	F4-3466C16D-8GTZ	4GB	SS			16-18-18-38	1.35V		●	
G.SKILL	F4-3466C16D-8GVK	4GB	SS			16-18-18-38	1.35V		●	
G.SKILL	F4-3466C16Q-16GRK	4GB	SS			16-18-18-38	1.35V		●	●
G.SKILL	F4-3466C16D-16GVR	8GB	SS			16-18-18-38	1.35V		●	●
G.SKILL	F4-3466C16D-16GVK	8GB	SS			16-18-18-38	1.35V		●	●
G.SKILL	F4-3466C16D-16GTZ	8GB	SS			16-18-18-38	1.35V		●	●
G.SKILL	F4-3466C16D-16GTZKW	8GB	SS			16-18-18-38	1.35V		●	●
G.SKILL	F4-3466C16D-16GTZSW	8GB	SS			16-18-18-38	1.35V		●	●
G.SKILL	F4-3466C16D-16GTZSK	8GB	SS			16-18-18-38	1.35V		●	●
G.SKILL	F4-3466C16Q-16GVK	4GB	SS			16-18-18-38	1.35V		●	●
G.SKILL	F4-3466C16Q-32GVR	8GB	SS			16-18-18-38	1.35V		●	●
G.SKILL	F4-3466C16Q-32GVK	8GB	SS			16-18-18-38	1.35V		●	●
G.SKILL	F4-3466C16Q-32GTZ	8GB	SS			16-18-18-38	1.35V		●	●
G.SKILL	F4-3466C16Q-32GTZSW	8GB	SS			16-18-18-38	1.35V		●	●
G.SKILL	F4-3466C16Q-64GTZ	16GB	DS			16-18-18-38	1.35V		●	●
G.SKILL	F4-3466C16Q-64GTZSW	16GB	DS			16-18-18-38	1.35V		●	●
G.SKILL	F4-3466C16Q-64GTZR	16GB	DS			16-18-18-38	1.35V		●	●
CORSAIR	CMD16GX4M2B3466C16 ver4.31	8GB	SS			16-18-18-36	1.35V		●	
CORSAIR	CMK16GX4M2B3466C16 ver4.31	8GB	SS			16-18-18-36	1.35V		●	
CORSAIR	CMK16GX4M2B3466C16R ver4.31	8GB	SS			16-18-18-36R	1.35V		●	
CORSAIR	CMR16GX4M2C3466C16 ver4.31	8GB	SS			16-18-18-36	1.35V		●	
CORSAIR	CMD16GX4M4B3466C16 ver4.24	4GB	SS			16-18-18-36	1.35V		●	●
CORSAIR	CMK16GX4M4B3466C16 ver4.24	4GB	SS			16-18-18-36	1.35V		●	●
CORSAIR	CMK16GX4M4B3466C16R ver4.24	4GB	SS			16-18-18-36R	1.35V		●	●
CORSAIR	CMD32GX4M4B3466C16 ver4.31	8GB	SS			16-18-18-36	1.35V		●	●
CORSAIR	CMU32GX4M4C3466C16 ver4.31	8GB	SS			16-18-18-36	1.35V		●	●
CORSAIR	CMU32GX4M4C3466C16R ver4.31	8GB	SS			16-18-18-36R	1.35V		●	●
CORSAIR	CMU32GX4M4B3466C16 ver4.24	8GB	DS			16-18-18-36	1.35V		●	●
CORSAIR	CMD32GX4M2B3466C16 ver4.31	16GB	DS			16-18-18-36	1.35V		●	
CORSAIR	CMK32GX4M2B3466C16 ver4.31	16GB	DS			16-18-18-36	1.35V		●	
CORSAIR	CMK32GX4M2B3466C16R ver4.31	16GB	DS			16-18-18-36R	1.35V		●	
CORSAIR	CMK32GX4M4B3466C16 ver4.31	8GB	SS			16-18-18-36	1.35V		●	●
CORSAIR	CMK32GX4M4B3466C16R ver4.31	8GB	SS			16-18-18-36R	1.35V		●	●
CORSAIR	CMR32GX4M4C3466C16 ver4.31	8GB	SS			16-18-18-36	1.35V		●	●
CORSAIR	CMD64GX4M4B3466C16 ver4.31	16GB	DS			16-18-18-36	1.35V		●	●
CORSAIR	CMK64GX4M4B3466C16 ver4.31	16GB	DS			16-18-18-36	1.35V		●	●
CORSAIR	CMK64GX4M4B3466C16R ver4.31	16GB	DS			16-18-18-36R	1.35V		●	●
CORSAIR	CMR64GX4M4C3466C16R ver4.31	16GB	DS			16-18-18-36	1.35V		●	●
APACER	AHU08GGB34CJU5H(EK.16GA3.GGB	8GB	SS			18-18-18-42	1.35V		●	
APACER	AHU08GGB34CJU6H(EK.16GA3.GGA	8GB	SS			18-18-18-42	1.35V		●	
Hyper X	HX434C19FBK2/16	16GB(8GB*2)	SS			19-23-23-42	1.2V		●	●
Hyper X	HX434C19FBK2/32	32GB(16GB*2)	DS			19-23-23-42	1.2V		●	●

DDR4 3600 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	DIMM socket support (Optional)		
								1 DIMM	2 DIMM	4 DIMM
GALAXY	HOF4CALCS3600K17LD162C	8GB	SS	N/A	Heat-Sink Package	17-18-18-38	1.35V		●	
G.SKILL	F4-3600C17D-8GRK	4GB	SS			17-18-18-38	1.35V		●	
G.SKILL	F4-3600C17D-8GTZ	4GB	SS			17-18-18-38	1.35V		●	
G.SKILL	F4-3600C17D-8GVK	4GB	SS			17-18-18-38	1.35V		●	
G.SKILL	F4-3600C17D-16GVK	8GB	SS			17-18-18-38	1.35V		●	
G.SKILL	F4-3600C17D-16GTZ	8GB	SS			17-18-18-38	1.35V		●	
G.SKILL	F4-3600C16D-16GVK	8GB	SS			16-16-16-36	1.35V		●	
G.SKILL	F4-3600C16D-16GTZ	8GB	SS			16-16-16-36	1.35V		●	
G.SKILL	F4-3600C15D-16GTZ	8GB	SS			15-15-15-35	1.35V		●	
G.SKILL	F4-3600C17Q-16GVK	4GB	SS			17-18-18-38	1.35V		●	●
G.SKILL	F4-3600C17Q-16GRK	4GB	SS			17-18-18-38	1.35V		●	●
G.SKILL	F4-3600C17Q-16GTZ	4GB	SS			17-18-18-38	1.35V		●	●
G.SKILL	F4-3600C17Q-32GVK	8GB	SS			17-18-18-38	1.35V		●	●
G.SKILL	F4-3600C17Q-32GTZ	8GB	SS			17-18-18-38	1.35V		●	●
G.SKILL	F4-3600C17Q-32GTZA	8GB	SS			17-17-17-37	1.35V		●	●
G.SKILL	F4-3600C16Q-32GTZB	8GB	SS			16-18-18-38	1.35V		●	●
G.SKILL	F4-3600C16Q-32GTZSWB	8GB	SS			16-18-18-38	1.35V		●	●
G.SKILL	F4-3600C16Q-32GTZBKW	8GB	SS			16-18-18-38	1.35V		●	●
G.SKILL	F4-3600C17Q-32GTZR	8GB	SS			17-18-18-38	1.35V		●	●
CORSAIR	CMD8GX4M2B3600C18 ver4.24	4GB	SS			18-19-19-39	1.35V		●	
CORSAIR	CMK8GX4M2B3600C18 ver4.24	4GB	SS			18-19-19-39	1.35V		●	
CORSAIR	CMK16GX4M2B3600C16R ver4.31	8GB	SS			16-18-18-36R	1.35V		●	
CORSAIR	CMD16GX4M2B3600C18 ver4.31	8GB	SS			18-19-19-39	1.35V		●	
CORSAIR	CMK16GX4M2B3600C18 ver4.31	8GB	SS			18-19-19-39	1.35V		●	
CORSAIR	CMK16GX4M2B3600C18R ver4.31	8GB	SS			18-19-19-39R	1.35V		●	
CORSAIR	CMR16GX4M2C3600C18 ver4.31	8GB	SS			18-19-19-39R	1.35V		●	
CORSAIR	CMK16GX4M4B3600C18 ver4.24	4GB	SS			18-19-19-39	1.35V		●	●
CORSAIR	CMD32GX4M4B3600C16 ver4.31	8GB	SS			16-18-18-36	1.35V		●	●
CORSAIR	CMK32GX4M4B3600C16R ver4.31	8GB	SS			16-18-18-36R	1.35V		●	●
CORSAIR	CMD32GX4M4B3600C18 ver4.31	8GB	SS			18-19-19-39	1.35V		●	●
CORSAIR	CMK32GX4M4B3600C18 ver4.31	8GB	SS			18-19-19-39	1.35V		●	●
CORSAIR	CMK32GX4M4B3600C18R ver4.31	8GB	SS			18-19-19-39R	1.35V		●	●
CORSAIR	CMR32GX4M4C3600C18 ver4.31	8GB	SS			18-19-19-39	1.35V		●	●

APACER	AHU08GGB36CJU5H(EK.16GA4.GGB	8GB	SS			18-18-18-42	1.35V		●	
KINGSTON	HX436C17PB3K4/32	8GB	SS			17-18-18-38	1.35V		●	●
PATRIOT	PV48G360C7K	4GB	SS			17-18-18-36	1.35V		●	
APACER	AHU08GGB36CEU5H(EK.16GA4.GFB	8GB	SS			17-19-19-39	1.35V	●	●	
ZADAK	ZD4-SHD3600C17-08GAS	8GB	SS			17-19-19-39	1.35V	●	●	
GSKILL	F4-3600C19Q-32GSXW	32GB(8GB*4)	SS			19-20-20-39	1.35V		●	●
TEAMGROUP	TFOD48G3600C18EBK	16GB(8GB*2)	SS			18-20-20-44	1.35V		●	
TEAMGROUP	TF1D416G3600HC18EDC01	16GB(8GB*2)	SS			18-20-20-44	1.35V		●	
TEAMGROUP	TF2D416G3600HC18EDC01	16GB(8GB*2)	SS			18-20-20-44	1.35V		●	
TEAMGROUP	TF5D416G3600HC18EDC01	16GB(8GB*2)	SS			18-20-20-44	1.35V		●	
TEAMGROUP	TF6D416G3600HC18EDC01	16GB(8GB*2)	SS			18-20-20-44	1.35V		●	

DDR4 3733 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	DIMM socket support (Optional)		
								1 DIMM	2 DIMM	4 DIMM
G.SKILL	F4-3733C17D-8GRK	4GB	SS			17-19-19-39	1.35V		●	
G.SKILL	F4-3733C17D-8GTZ	4GB	SS			17-19-19-39	1.35V		●	
G.SKILL	F4-3733C17D-8GVK	4GB	SS			17-19-19-39	1.35V		●	
G.SKILL	F4-3733C17D-16GTZ	8GB	SS			17-19-19-39	1.35V		●	
G.SKILL	F4-3733C17Q-16GRK	4GB	SS			17-19-19-39	1.35V		●	●
G.SKILL	F4-3733C17Q-16GTZ	4GB	SS			17-19-19-39	1.35V		●	●
G.SKILL	F4-3733C17Q-16GVK	4GB	SS			17-19-19-39	1.35V		●	●
G.SKILL	F4-3733C17D-16GTZ	8GB	SS			17-19-19-39	1.35V		●	
G.SKILL	F4-3733C17D-16GTZA	8GB	SS			17-17-17-37	1.35V		●	
G.SKILL	F4-3733C17Q-32GTZ	8GB	SS			17-17-17-37	1.35V		●	●
G.SKILL	F4-3733C17Q-32GTZSW	8GB	SS			17-17-17-37	1.35V		●	●
G.SKILL	F4-3733C17Q-32GTZKW	8GB	SS			17-17-17-37	1.35V		●	●
G.SKILL	F4-3733C17Q-32GTZR	8GB	SS			17-17-17-37	1.35V		●	●
CORSAIR	CMD8GX4M2B3733C17 ver4.24	4GB	SS			17-19-19-39	1.35V		●	
CORSAIR	CMK8GX4M2B3733C17 ver4.24	4GB	SS			17-19-19-39	1.35V		●	
CORSAIR	CMD16GX4M2B3733C17 ver4.31	8GB	SS			17-19-19-39	1.35V		●	
CORSAIR	CMK16GX4M2B3733C17R ver4.31	8GB	SS			17-19-19-39R	1.35V		●	
CORSAIR	CMK16GX4M4B3733C17 ver4.24	4GB	SS			17-19-19-39	1.35V		●	●
CORSAIR	CMD32GX4M4B3733C17 ver4.31	8GB	SS			17-19-19-39	1.35V		●	●
CORSAIR	CMK32GX4M4B3733C17R ver4.31	8GB	SS			17-19-19-39R	1.35V		●	●
APACER	AHU08GGB37CEU5H(EK.16GA6.GFB	8GB	SS			17-19-19-39	1.35V		●	
SUPERTALENT	F3733UB8G	8GB	SS			17-19-19-39	1.35V		●	●
PATRIOT	PV416G373C7K	8GB	SS			17-19-19-39	1.35V		●	

DDR4 3866Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	DIMM socket support (Optional)		
								1 DIMM	2 DIMM	4 DIMM
G.SKILL	F4-3866C18Q-16GTZ	4GB	SS	N/A	Heat-Sink Package	18-22-22-42	1.35V			●
G.SKILL	F4-3866C19D-8GTZ	4GB	SS			18-22-22-40	1.35V		●	
G.SKILL	F4-3866C19Q-16GTZ	4GB	SS			18-22-22-40	1.35V		●	●
G.SKILL	F4-3866C18Q-32GTZ	8GB	SS			18-19-19-39	1.35V		●	●
G.SKILL	F4-3866C18Q-32GTZSW	8GB	SS			18-19-19-39	1.35V		●	●
G.SKILL	F4-3866C18Q-32GTZKW	8GB	SS			18-19-19-39	1.35V		●	●
CORSAIR	CMK8GX4M2B3866C18 ver4.24	4GB	SS			18-22-22-40	1.35V		●	
CORSAIR	CMD8GX4M2B3866C18 ver4.24	4GB	SS			18-22-22-40	1.35V		●	
CORSAIR	CMD16GX4M2B3866C18 ver4.31	8GB	SS			18-22-22-40	1.35V		●	
CORSAIR	CMK16GX4M2B3866C18 ver4.31	8GB	SS			18-22-22-40	1.35V		●	
CORSAIR	CMK16GX4M4B3866C18 ver4.24	4GB	SS			18-22-22-40	1.35V		●	●
CORSAIR	CMK16GX4M4B3866C18R ver4.24	4GB	SS			18-22-22-40R	1.35V		●	●
CORSAIR	CMD32GX4M4B3866C18 ver4.31	8GB	SS			18-22-22-40	1.35V		●	●
CORSAIR	CMK32GX4M4B3866C18R ver4.31	8GB	SS			18-22-22-40R	1.35V		●	●
TEAM GROUP	TCD44G3866C18ABK	4GB	SS			18-20-20-39	1.35V		●	●
G.SKILL	F4-3866C18Q-32GTZR	8GB	SS			18-19-19-39	1.35V			●
ADATA	AX4U386638G18-QRS	8GB	SS			18-19-19-39	1.35V			●

DDR4 4000 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	DIMM socket support (Optional)		
								1 DIMM	2 DIMM	4 DIMM
G.SKILL	F4-4000C18Q-16GTZ	4GB	SS			18-22-22-40	1.35V		●	●
G.SKILL	F4-4000C18Q-32GTZ	8GB	SS			18-19-19-39	1.35V		●	●
G.SKILL	F4-4000C18Q-32GTZSW	8GB	SS			18-19-19-39	1.35V		●	●
G.SKILL	F4-4000C18Q-32GTZKW	8GB	SS			18-19-19-39	1.35V		●	●
CORSAIR	CMK16GX4M2E4000C19R ver4.31	8GB	SS			19-23-23-45R	1.35V		●	
CORSAIR	CMK16GX4M2B4000C19R ver4.31	8GB	SS			19-23-23-45R	1.35V		●	
CORSAIR	CMK32GX4M4B4000C19R ver4.31	8GB	SS			19-23-23-45R	1.35V		●	●

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 eithor the Gray slots or the Black slots as one pair of Dual-channel memory configuration
- **4 DIMM**: Supports 4 modules inserted into both the Gray 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.