

**CROSSHAIR VIII IMPACT**

**DDR4 2133 Qualified Vendors List (QVL)**

Vendors	Part No.	Size	SS/DS	Chip Brand	Timing	Voltage	DIMM socket support (Optional)	
							1 DIMM	2 DIMM
Apacer	78.B1GM3.AF00B	4x 4GB	SS	SK Hynix	15-15-15-36	1.2	•	•
Apacer	78.C1GM3.AF10B	4x 8GB	DS	SK Hynix	15-15-15-36	1.2	•	•
Apacer	AHU08GGB13CGT7G	4x 8GB	DS	Apacer	15-15-15-36	1.2	•	•
Apacer	AU04GGB13CDYBWH	4GB	DS	Micron	15-15-15-36	1.2	•	•
Apacer	AU08GGB13CDYBGH	8GB	SS	Micron	15-15-15-36	1.2	•	•
Apacer	EL.04G2R.LDH	4GB	DS	Micron	15-15-15-36	1.2	•	•
Apacer	EL.08G2R.GDH	8GB	SS	Micron	15-15-15-36	1.2	•	•
CENTURY MICRO INC	CD8G-D4U2133	8GB	DS	SK Hynix	15-15-15-36	-	•	•
CENTURY MICRO INC	CK8GX4-D4U2133	4x 8GB	DS	SK Hynix	15-15-15-35	1.2	•	•
CORSAIR	CMK16GX4M4A2133C13(Ver4.23)(XMP)	4x 4GB	SS	-	13-15-15-28	1.2	•	•
CORSAIR	CMK32GX4M4A2133C13(Ver4.31)(XMP)	2x 16GB	DS	-	15-15-15-36	1.2	•	•
CORSAIR	CMK32GX4M4A2133C13(Ver4.23)(XMP)	4x 8GB	DS	-	13-15-15-28	1.2	•	•
CORSAIR	CMK32GX4M4A2133C15(Ver3.20)	4x 8GB	DS	-	15-15-15-36	1.2	•	•
CORSAIR	CMK32GX4M4A2133C15(Ver5.29)	4x 8GB	DS	-	15-15-15-36	1.2	•	•
CORSAIR	CMK64GX4M8A2133C13(Ver5.39)(XMP)	8x 8GB	SS	SK Hynix	14-15-15-28	1.2	•	•
CORSAIR	CMV16GX4M1A2133C15	16GB	DS	-	15-15-15-36	1.2	•	•
CORSAIR	CMV16GX4M1A2133C15	16GB	DS	-	15-15-15-36	-	•	•
CORSAIR	CMV4GX4M1A2133C15	4GB	SS	-	15-15-15-36	1.2	•	•
CORSAIR	CMV8GX4M1A2133C15	8GB	DS	-	15-15-15-36	1.2	•	•
crucial	CT16G4DFD8213.16FB1	16GB	DS	Micron	15-15-15-36	1.2	•	•
crucial	CT4G4DFS8213.8FA2	4GB	SS	Micron	15-15-15-36	1.2	•	•
crucial	CT4G4DFS8213.8FB1	4GB	SS	Micron	15-15-15-36	1.2	•	•
crucial	CT8G4DFD8213.16FA1	8GB	DS	Micron	15-15-15-37	1.2	•	•
crucial	CT8G4DFS8213.8FB1	8GB	SS	Micron	15-15-15-36	1.2	•	•
G.SKILL	F4-2133C15Q-16GRR	4x 4GB	SS	Micron	15-15-15-35	1.2	•	•
G.SKILL	F4-2133C15Q2-128GVK	8x 16GB	DS	SK Hynix	15-15-15-36	1.2	•	•
G.SKILL	F4-2133C15Q2-64GRR	8x 8GB	DS	SpecTek	15-15-15-35	1.2	•	•
G.SKILL	F4-2133C15Q-32GRR	4x 8GB	DS	Micron	15-15-15-35	-	•	•
GelL	GPR416GB2133C15QC	4x 4GB	SS	Micron	15-15-15-36	1.2	•	•
GelL	GPR432GB2133C15QC	4x 8GB	SS	Micron	15-15-15-36	1.2	•	•
Hyper X	HX421C13SB/4(XMP)	4GB	SS	SK Hynix	15-15-15-36	1.2	•	•
Hyper X	HX421C13SB/8(XMP)	8GB	DS	SK Hynix	15-15-15-36	1.2	•	•
Hyper X	HX421C13SBK2/16(XMP)	2x 8GB	DS	SK Hynix	15-15-15-36	1.2	•	•
Hyper X	HX421C13SBK2/8(XMP)	2x 4GB	SS	SK Hynix	15-15-15-36	1.2	•	•
Hyper X	HX421C13SBK4/16(XMP)	4x 4GB	SS	SK Hynix	15-15-15-36	1.2	•	•
Hyper X	HX421C13SBK4/32(XMP)	4x 8GB	DS	SK Hynix	15-15-15-36	1.2	•	•
Hyper X	HX421C14FB/4	4GB	SS	SK Hynix	14-14-14-35	1.2	•	•
Hyper X	HX421C14FB/8	8GB	DS	SK Hynix	14-14-14-35	1.2	•	•
Hyper X	HX421C14FBK2/16(XMP)	4x 8GB	SS	Micron	14-14-14-35	1.2	•	•
Hyper X	HX421C14FBK2/8	2x 8GB	DS	SK Hynix	14-14-14-35	1.2	•	•
Hyper X	HX421C14FBK2/8	2x 4GB	SS	SK Hynix	14-14-14-35	1.2	•	•
Hyper X	HX421C14FBK4/16	4x 4GB	SS	SK Hynix	14-14-14-35	1.2	•	•
Hyper X	HX421C14FBK4/32	4x 8GB	DS	SK Hynix	14-14-14-35	1.2	•	•
Hyper X	HX421C14FBK4/64	4x 16GB	DS	Micron	15-15-15-35	1.2	•	•
Hyper X	HX421C14FBK8/64	8x 8GB	DS	SK Hynix	14-14-14-35	1.2	•	•
Kingston	KVR21N15D8/16	16GB	DS	Micron	15-15-15-36	1.2	•	•
Kingston	KVR21N15D8/8	8GB	DS	SK Hynix	15-15-15-36	1.2	•	•
Klevv	IM44GU48N21-FFFHAB(XMP)	4GB	SS	SK Hynix	15-15-15-35	1.2	•	•
Klevv	IM48GU88N21-FFFHMB(XMP)	8GB	SS	SK Hynix	15-15-15-35	1.2	•	•
Klevv	IM4AGU88N21-FFFHMB(XMP)	16GB	DS	SK Hynix	15-15-15-35	1.2	•	•
Klevv	KM4C8GX4N-2133-15-15-15-35-0	8GB	DS	SK Hynix	15-15-15-35	1.2	•	•
Klevv	KM4C8GX4N-2133-15-15-15-15-35-1	4x 8GB	DS	SK Hynix	15-15-15-35	1.2	•	•
Micron	MTA16ATF1G64AZ-2G1A1	8GB	DS	Micron	15-15-15-37	1.2	•	•
Micron	MTA16ATF2G64AZ-2G1B1	16GB	DS	Micron	15-15-15-36	1.2	•	•
Micron	MTA8ATF1G64AZ-2G1B1	8GB	SS	Micron	15-15-15-36	1.2	•	•
panram	W4U2133PS-8G	8GB	SS	SK Hynix	16-16-16-36	-	•	•
SanMax	SMD-4G28HP-21P	4GB	SS	SK Hynix	15-15-15-37	-	•	•
SanMax	SMD-8G28HP-21P	8GB	DS	SK Hynix	15-15-15-37	-	•	•
Silicon Power	SP004GBLFU213N01	4GB	SS	Samsung	15-15-15-37	-	•	•
Silicon Power	SP008GBLFU213N01	8GB	DS	Samsung	15-15-15-37	-	•	•
SK Hynix	HMA41GU6MFR8N-TF	8GB	DS	SK Hynix	15-15-15-37	1.2	•	•
SK Hynix	HMA82GU6MFR8N-TF	16GB	DS	SK Hynix	15-15-15-36	-	•	•
SUPER TALENT	FBU2B008GM	8GB	DS	Micron	15-15-15-36	1.2	•	•
Team	TED416G2133C15BK	16GB	DS	Micron	15-15-15-36	1.2	•	•
Team	TED44GM2133C15ABK	4GB	SS	SK Hynix	15-15-15-36	1.2	•	•
UMAX	84G44G93MC-21OMCALGF15	4GB	SS	Micron	15-15-15-36	-	•	•
UMAX	84G48G93MC-21OMCGNF15	8GB	DS	Micron	15-15-15-36	-	•	•
V-color	TC48G21S815-IMS	8GB	SS	Micron	15-15-15-36	1.2	•	•

**DDR4 2400 Qualified Vendors List (QVL)**

Vendors	Part No.	Size	SS/DS	Chip Brand	Timing	Voltage	DIMM socket support (Optional)	
							1 DIMM	2 DIMM
ADATA	AD4U2400316G17	16GB	DS	Nanya	17-17-17-39	1.2	•	•
ADATA	AD4X240038G17	8GB	SS	SpecTech	17-17-17-39	1.2	•	•
ADATA	AD4X2400W4G17	4GB	SS	SK Hynix	17-17-17-39	1.2	•	•
Antec	AMD4U2124001508G-3S	8GB	SS	Samsung	15-15-15-39	1.2	•	•
Antec	AMD4U2124001608G-5S	8GB	SS	Micron	16-16-16-36	1.2	•	•
Apacer	78.C1GMS.4010B	4x 8GB	DS	Samsung	17-17-17-39	-	•	•
Apacer	AHU08GGB24CDU7G(XMP)	8GB	SS	-	16-16-16-36	1.2	•	•
Apacer	AU04GGB24CEYBWH	4GB	SS	Micron	17-17-17-39	1.2	•	•
Apacer	AU04GGB24CEYBWH	4GB	DS	SK Hynix	17-17-17-39	-	•	•
Apacer	AU08GGB24CEYBWH	8GB	SS	Apacer	17-17-17-39	-	•	•
Apacer	EK.08G2T.GEC(XMP)	8GB	SS	Micron	17-17-17-39	-	•	•
Apacer	EL.04G2T.KFH	4GB	SS	Micron	17-17-17-39	1.2	•	•
Apacer	EL.04G2T.LFH	4GB	DS	SK Hynix	17-17-17-39	-	•	•
Apacer	EL.08G2T.GFH	8GB	SS	Apacer	17-17-17-39	-	•	•
Apacer	EL.08G2T.GFM	8GB	SS	SK Hynix	17-17-17-39	-	•	•
Asgard	VML41UE-MIC1U22Q1	2GB	SS	Micron	17-17-17-39	1.2	•	•
CORSAIR	CMK128GX4M8A2400C14(Ver3.31)(XMP)	8x 16GB	DS	Micron	15-16-16-31	1.2	•	•
CORSAIR	CMK16GX4M4A2400C16(Ver3.31)(XMP)	2x 8GB	DS	Micron	15-15-15-36	1.2	•	•
CORSAIR	CMK16GX4M2D2400C14(Ver4.21)(XMP)	2x 8GB	DS	Samsung	14-16-16-31	1.2	•	•
CORSAIR	CMK16GX4M2Z2400C16(Ver3.31)	2x 8GB	SS	Micron	16-16-16-39	1.2	•	•
CORSAIR	CMK16GX4M4A2400C14(Ver4.23)(XMP)	4x 4GB	SS	-	14-16-16-31	1.2	•	•
CORSAIR	CMK16GX4M4A2400C14(Ver5.20)(XMP)	4x 4GB	SS	SK Hynix	14-16-16-31	1.2	•	•
CORSAIR	CMK32GX4M4A2400C14(Ver3.31)(XMP)	4x 8GB	SS	Micron	14-16-16-31	1.2	•	•
CORSAIR	CMK32GX4M4A2400C14(Ver4.23)(XMP)	4x 8GB	DS	-	14-16-16-31	1.2	•	•

CORSAIR	CMK32GX4M4A2400C16(Ver3.31)(XMP)	4x 8GB	SS	Micron	15-15-15-36	1.2	•	•
CORSAIR	CMK64GX4M2A2400C16(Ver3.44)(XMP)	2x 32GB	DS	Micron	16-16-16-39	1.2	•	•
CORSAIR	CMK64GX4M4A2400C14(Ver3.31)(XMP)	4x 16GB	DS	Micron	15-15-15-36	1.2	•	•
CORSAIR	CMK64GX4M4A2400C14(Ver4.31)(XMP)	4x 16GB	DS	Samsung	15-15-15-36	1.2	•	•
CORSAIR	CMK64GX4M4A2400C16(Ver3.32)(XMP)	4x 16GB	DS	Micron	16-16-16-39	1.2	•	•
CORSAIR	CMK8GX4M2D2400C14(Ver3.11)(XMP)	2x 4GB	DS	Micron	14-16-16-31	1.2	•	•
crucial	BLS16G4D240FSB.16FBD(XMP)	16GB	DS	Micron	16-16-16-39	1.2	•	•
crucial	BLS4G4D240FSB.8FBD(XMP)	4GB	SS	Micron	16-16-16-39	1.2	•	•
crucial	BLS8G4D240FSBK.8FBD(XMP)	8GB	SS	Micron	16-16-16-39	1.2	•	•
crucial	CT16G4DFD824A.16FB1	16GB	DS	Micron	17-17-17-39	1.2	•	•
crucial	CT16G4DFD824A.C16FDR1	16GB	DS	Micron	17-17-17-39	1.2	•	•
crucial	CT8G4DFS824A.8FB1	8GB	SS	Micron	17-17-17-39	1.2	•	•
G.SKILL	F4-2400C14Q2-128GRK(XMP)	8x 16GB	DS	Samsung	14-14-14-34	1.2	•	•
G.SKILL	F4-2400C14Q2-128GRK(XMP)	8x 16GB	DS	Samsung	15-15-15-36	1.2	•	•
G.SKILL	F4-2400C14Q2-128GRK(XMP)	8x 16GB	DS	SK Hynix	14-14-14-34	1.2	•	•
G.SKILL	F4-2400C15Q-16GRR(XMP)	4x 4GB	SS	Micron	15-15-15-35	1.2	•	•
G.SKILL	F4-2400C15Q2-128GRK(XMP)	8x 16GB	DS	Samsung	15-15-15-35	1.2	•	•
G.SKILL	F4-2400C15Q2-128GVK(XMP)	8x 16GB	DS	SK Hynix	15-15-15-36	1.2	•	•
G.SKILL	F4-2400C15Q2-64GRK(XMP)	8x 8GB	DS	Samsung	15-15-15-35	1.2	•	•
G.SKILL	F4-2400C15Q-32GRR(XMP)	4x 8GB	DS	Micron	15-15-15-35	1.2	•	•
GALAX	Gamer Auria Vision (XMP)	8GB	SS	Micron	17-16-16-36	1.2	•	•
GeIL	GASB416GB2400C16QC(XMP)	4GB	SS	Micron	16-16-16-36	1.2	•	•
GeIL	GASB432GB2400C16QC(XMP)	8GB	SS	Micron	16-16-16-36	1.2	•	•
GeIL	GEL416GB2400C17SC	16GB	DS	GeIL	17-17-17-39	-	•	•
GeIL	GEL48GB2400C17SC	8GB	SS	GeIL	17-17-17-39	-	•	•
GeIL	GFR416GB2400C16S(XMP)	16GB	SS	Micron	16-16-16-36	1.2	•	•
GeIL	GFR432GB2400C16D(XMP)	16GB	SS	Micron	16-16-16-36	1.2	•	•
GeIL	GLR464GB2400C14QC(XMP)	4x 16GB	DS	Micron	14-14-14-35	1.2	•	•
GeIL	GLS48GB2400C16DC(XMP)	4GB	SS	Micron	16-16-16-36	1.2	•	•
GeIL	GPR416GB2400C15QC(XMP)	4x 4GB	SS	-	15-15-15-35	1.2	•	•
GeIL	GPR432GB2400C15QC(XMP)	4x 8GB	DS	SK Hynix	15-15-15-35	1.2	•	•
GeIL	GPR432GB2400C16QC(XMP)	4x 8GB	SS	Micron	16-16-16-36	1.2	•	•
GLOWAY	TYP4U2400D17021C	2GB	SS	Micron	17-17-17-39	1.2	•	•
Hyper X	HX424C12PB2K4/16(XMP)	4x 4GB	SS	SK Hynix	12-13-13-35	1.2	•	•
Hyper X	HX424C12SB2/4(XMP)	4GB	SS	SK Hynix	15-15-15-36	1.35	•	•
Hyper X	HX424C12SB2/8(XMP)	8GB	DS	SK Hynix	15-15-15-36	1.35	•	•
Hyper X	HX424C12SB2K2/16(XMP)	2x 8GB	DS	SK Hynix	15-15-15-36	1.35	•	•
Hyper X	HX424C12SB2K2/16(XMP)	2x 8GB	DS	Nanya	15-15-15-36	1.35	•	•
Hyper X	HX424C12SB2K4/16(XMP)	4x 4GB	SS	SK Hynix	15-15-15-36	1.35	•	•
Hyper X	HX424C12SB2K4/32(XMP)	4x 8GB	DS	SK Hynix	15-15-15-36	1.35	•	•
Hyper X	HX424C12SB2K4/32(XMP)	4x 8GB	DS	Nanya	15-15-15-36	1.35	•	•
Hyper X	HX424C15B2K4/32(XMP)	4x 8GB	SS	Micron	15-15-15-35	1.2	•	•
Hyper X	HX424C15FB/4	4GB	SS	SK Hynix	15-15-15-35	1.2	•	•
Hyper X	HX424C15FB/8(XMP)	8GB	SS	SK Hynix	14-14-14-32	1.2	•	•
Hyper X	HX424C15FB2/8(XMP)	8GB	SS	Hynix	15-15-15-35	1.2	•	•
Hyper X	HX424C15FBK2/32	2x 16GB	DS	Hynix	15-15-15-35	1.2	•	•
Hyper X	HX424C15FBK2/32	2x 16GB	DS	Nanya	15-15-15-35	1.2	•	•
Hyper X	HX424C15FBK2/8	2x 4GB	SS	SK Hynix	15-15-15-35	1.2	•	•
Hyper X	HX424C15FBK4/16	4x 4GB	SS	SK Hynix	15-15-15-35	1.2	•	•
Hyper X	HX424C15FBK4/16	4x4GB	SS	SK Hynix	14-14-14-32	1.2	•	•
Hyper X	HX424C15FBK4/32	4x 8GB	DS	SK Hynix	15-15-15-35	1.2	•	•
Hyper X	HX424C15FBK4/32	4x 8GB	DS	PSC	15-15-15-35	1.2	•	•
Hyper X	HX424C15FBK4/64	4x 16GB	DS	Micron	15-15-15-35	1.2	•	•
J&A	JRLL4U2400172408-8M	8GB	SS	-	17-17-17-39	1.2	•	•
KINGMAX	GLLF62F-DAKZIG-CLBU	4GB	SS	KINGMAX	17-17-17-39	-	•	•
KINGMAX	GLLF62F-DAKZIG-CLBU	4GB	SS	KINGMAX	17-17-17-39	-	•	•
KINGMAX	GLLH22F-18KIIIA-CFBU2	16GB	DS	KINGMAX	17-17-17-39	-	•	•
Kingston	KVR24N17D8/16	16GB	DS	Micron	17-17-17-39	1.2	•	•
Kingston	KVR24N17D8/8	8GB	DS	Micron	17-17-17-39	1.2	•	•
Kingston	KVR24N17S6/4	4GB	SS	Micron	17-17-17-39	1.2	•	•
Kingston	KVR24N17S8/4	4GB	SS	Micron	17-17-17-39	1.2	•	•
Kingston	KVR24N17S8/8	8GB	SS	Micron	17-17-17-39	1.2	•	•
Klevv	IM44GU48N24-FFFHAB(XMP)	4GB	SS	SK Hynix	15-15-15-35	1.2	•	•
Klevv	IM44GU48N24-FFFHAZ(XMP)	4GB	SS	SK Hynix	15-15-15-35	1.2	•	•
Klevv	IM48GU88N24-FFFHMB(XMP)	8GB	SS	SK Hynix	15-15-15-35	1.2	•	•
Klevv	IM48GU88N24-FFFHMZ(XMP)	8GB	SS	SK Hynix	15-15-15-35	1.2	•	•
Klevv	IM48GU88N24-FFFHMZ(XMP)	16GB	DS	SK Hynix	15-15-15-35	1.2	•	•
Micron	MTA16ATF2G64AZ-2G3B1	16GB	DS	Micron	17-17-17-39	1.2	•	•
Micron	MTA8ATF1G64AZ-2G3B1	8GB	SS	-	17-17-17-39	1.2	•	•
panram	W4U2400PS-8G	8GB	SS	SK Hynix	14-14-14-31	-	•	•
PATRIOT	PSD416G24002	16GB	DS	Samsung	17-17-17-39	1.2	•	•
PATRIOT	PSD44G240081	4GB	SS	Samsung	16-16-16-39	1.2	•	•
PATRIOT	PSD48G240081	8GB	SS	Samsung	17-17-17-39	1.2	•	•
PATRIOT	PSD48G240082	8GB	DS	-	17-17-17-39	1.2	•	•
PATRIOT	PVE16G2400C5KRD(XMP)	2x 8GB	SS	-	15-15-15-35	-	•	•
PATRIOT	PVE48G2400C5KRD(XMP)	2x 4GB	SS	-	15-15-15-35	-	•	•
SK Hynix	HMA81GU6AFR8N-UH	8GB	SS	SK Hynix	17-17-17-39	-	•	•
SK Hynix	HMA82GU6AFR8N-UH	16GB	DS	SK Hynix	17-17-17-39	-	•	•
SK Hynix	HMA851U6AFR6N-UH	4GB	SS	SK Hynix	17-17-17-39	-	•	•
Team	TCD44G2400C14BK(XMP)	4GB	SS	SK Hynix	14-16-16-31	1.2	•	•
Team	TCD48G2400C14BK(XMP)	8GB	SS	-	15-16-16-31	1.2	•	•
Team	TED416G2400C16BK	16GB	DS	Micron	16-16-16-39	1.2	•	•
Team	TED416G2400C16DC01	2x 8GB	SS	Team	16-16-16-39	1.2	•	•
Team	TED416G2400C16QC01	4x 4GB	SS	Team	16-16-16-39	1.2	•	•
Team	TED432G2400C16QC01	4x 8GB	SS	Team	16-16-16-39	1.2	•	•
Team	TED44G2400C1601	4GB	SS	Team	16-16-16-39	1.2	•	•
Team	TED44G2400C16BK	4GB	SS	Team	16-16-16-39	1.2	•	•
Team	TED48G2400C1601	8GB	SS	Team	16-16-16-39	1.2	•	•
Team	TED48G2400C16BK	8GB	SS	Team	16-16-16-39	1.2	•	•
Team	TED48G2400C16BK	8GB	DS	SK Hynix	16-16-16-39	1.2	•	•
Team	TED48G2400C16DC01	2x 4GB	SS	Team	16-16-16-39	1.2	•	•
Team	TF3D48G2400HC15BBK(XMP)	8GB	SS	SK Hynix	15-17-17-35	1.2	•	•
Team	TF4D48G2400HC15BBK(XMP)	8GB	SS	SK Hynix	15-17-17-35	1.2	•	•
Team	TLTYD416G2400HC14DC01(XMP)	2x 8GB	SS	SK Hynix	14-16-16-31	1.2	•	•
Team	TLTYD432G2400HC15BDC01(XMP)	2x 16GB	SS	SK Hynix	15-17-17-35	1.2	•	•
Team	TPD416G2400HC16DC01	2x 8GB	SS	Team	16-16-16-39	1.2	•	•
Team	TPD416G2400HC16QC01	4x 4GB	SS	Team	16-16-16-39	1.2	•	•
Team	TPD432G2400HC16QC01	4x 8GB	SS	Team	16-16-16-39	1.2	•	•
Team	TPD44G2400HC1601	4GB	SS	Team	16-16-16-39	1.2	•	•
Team	TPD48G2400HC1601	8GB	SS	Team	16-16-16-39	1.2	•	•
Team	TPD48G2400HC16DC01	2x 4GB	SS	Team	16-16-16-39	1.2	•	•

Team	TPRD416G2400HC16DC01	2x 8GB	SS	Team	16-16-16-39	1.2	•	•
Team	TPRD416G2400HC16QC01	4x 4GB	SS	Team	16-16-16-39	1.2	•	•
Team	TPRD432G2400HC16QC01	4x 8GB	SS	Team	16-16-16-39	1.2	•	•
Team	TPRD4G2400HC1601	4GB	SS	Team	16-16-16-39	1.2	•	•
Team	TPRD48G2400HC1601	8GB	SS	Team	16-16-16-39	1.2	•	•
Team	TPRD48G2400HC16DC01	2x 4GB	SS	Team	16-16-16-39	1.2	•	•

#### DDR4 2666 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Timing	Voltage	DIMM socket support (Optional)	
							1 DIMM	2 DIMM
ADATA	AD4U2666316G19-B	16GB	DS	SpecTek	19-19-19-43	1.2	•	•
ADATA	AD4U266638G19	8GB	SS	Nanya	19-19-19-43	1.2	•	•
AITC	AID48G26RDZ	8GB	SS	Micron	19-19-19-43	-	•	•
Antec	AMD4UZ126661608G-5S(XMP)	8GB	SS	Micron	16-18-18-35	1.2	•	•
Apacer	AHU08GGB26CDU7G(XMP)	8GB	SS	SK Hynix	16-16-16-36	1.2	•	•
Apacer	AU04GGB26CQTBGH	4GB	SS	-	19-19-19-43	-	•	•
Apacer	AU04GGB26CQWBGH	4GB	DS	Micron	19-19-19-43	1.2	•	•
Apacer	AU08GGB26CQYBGH	8GB	SS	Apacer	19-19-19-43	1.2	•	•
Apacer	AU08GGB26CQYBGH	8GB	SS	Apacer	19-19-19-43	-	•	•
Apacer	AU16GGB26CQYBGH	16GB	DS	Apacer	19-19-19-43	1.2	•	•
Apacer	EL.04G2V.LNH	4GB	DS	Micron	19-19-19-43	1.2	•	•
Apacer	EL.08G2V.GNH	8GB	SS	Apacer	19-19-19-43	-	•	•
Apacer	EL.16G2V.GNH	16GB	DS	Apacer	19-19-19-43	1.2	•	•
Asgard	VMA42UH-MEC1U2AJ2(XMP)	16GB	SS	-	19-19-19-43	1.2	•	•
CORSAIR	CMD128GX4M8A2666C15(Ver4.31)(XMP)	8x 16GB	DS	Samsung	15-15-15-36	1.2	•	•
CORSAIR	CMD16GX4M2A2666C15(Ver4.23)(XMP)	2x 8GB	DS	-	15-17-17-35	1.2	•	•
CORSAIR	CMD16GX4M4A2666C15(Ver4.23)(XMP)	4x 4GB	SS	-	15-17-17-35	1.2	•	•
CORSAIR	CMD16GX4M4A2666C16(Ver4.23)(XMP)	4x 4GB	SS	-	16-18-18-35	1.2	•	•
CORSAIR	CMD16GX4M4A2666C16(Ver5.29)(XMP)	4x 4GB	SS	-	16-18-18-35	1.2	•	•
CORSAIR	CMD32GX4M4A2666C15(Ver4.23)(XMP)	4x 8GB	DS	-	15-17-17-35	1.2	•	•
CORSAIR	CMD32GX4M4A2666C15(Ver5.29)(XMP)	4x 8GB	DS	-	15-17-17-35	1.2	•	•
CORSAIR	CMD32GX4M4A2666C16(Ver4.23)(XMP)	4x 8GB	DS	-	16-18-18-35	1.2	•	•
CORSAIR	CMD64GX4M8A2666C15(Ver4.24)(XMP)	8x 8GB	DS	Samsung	15-15-15-36	1.2	•	•
CORSAIR	CMD64GX4M8A2666C15(Ver5.32)(XMP)	8x 8GB	SS	Hynix	15-17-17-35	1.2	•	•
CORSAIR	CMD8GX4M2A2666C15(Ver4.23)(XMP)	2x 4GB	DS	-	15-17-17-35	1.2	•	•
CORSAIR	CMD8GX4M2A2666C15(Ver4.23)(XMP)	2x 4GB	DS	-	15-17-17-35	1.2	•	•
CORSAIR	CMK128GX4M8A2666C16(Ver3.31)(XMP)	8x 16GB	DS	Micron	16-18-18-35	1.2	•	•
CORSAIR	CMK128GX4M8A2666C16(Ver3.32)(XMP)	8x 16GB	DS	Micron	16-18-18-35	1.2	•	•
CORSAIR	CMK128GX4M8A2666C16(Ver5.39)(XMP)	8x 16GB	DS	SK Hynix	16-18-18-35	1.2	•	•
CORSAIR	CMK16GX4M2A2666C16(Ver5.30)(XMP)	2x 8GB	SS	SK Hynix	16-18-18-35	1.2	•	•
CORSAIR	CMK16GX4M2D2666C16(Ver4.21)(XMP)	2x 8GB	DS	Samsung	16-18-18-35	1.2	•	•
CORSAIR	CMK16GX4M4A2666C16(Ver3.21)(XMP)	4x 4GB	SS	Micron	16-18-18-35	1.2	•	•
CORSAIR	CMK16GX4M4A2666C16(Ver3.21)(XMP)	4x 4GB	SS	Micron	16-18-18-35	1.2	•	•
CORSAIR	CMK16GX4M4A2666C16(Ver4.23)(XMP)	4x 4GB	SS	-	16-18-18-35	1.2	•	•
CORSAIR	CMK32GX4M2A2666C16(Ver4.31)(XMP)	2x 16GB	DS	-	16-18-18-35	1.2	•	•
CORSAIR	CMK32GX4M2A2666C16R(Ver3.31)(XMP)	2x 16GB	DS	Micron	15-15-15-36	1.2	•	•
CORSAIR	CMK32GX4M4A2666C15(Ver4.23)(XMP)	4x 8GB	DS	-	15-17-17-35	1.2	•	•
CORSAIR	CMK32GX4M4A2666C16(Ver3.20)(XMP)	4x 8GB	DS	Micron	15-15-15-36	1.2	•	•
CORSAIR	CMK32GX4M4A2666C16(Ver3.21)(XMP)	4x 8GB	DS	Micron	16-18-18-35	1.2	•	•
CORSAIR	CMK32GX4M4A2666C16(Ver5.30)(XMP)	4x 8GB	SS	SK Hynix	16-18-18-35	1.2	•	•
CORSAIR	CMK32GX4M4A2666C16(Ver5.30)(XMP)	4x 8GB	SS	SK Hynix	16-18-18-35	1.2	•	•
CORSAIR	CMK32GX4M4A2666C16(Ver5.39)(XMP)	4x 8GB	SS	SK Hynix	16-18-18-35	1.2	•	•
CORSAIR	CMK32GX4M4A2666C16R(Ver4.23)(XMP)	4x 8GB	DS	-	16-18-18-35	1.2	•	•
CORSAIR	CMK64GX4M4A2666C16(Ver3.31)(XMP)	4x 16GB	DS	Micron	16-18-18-35	1.2	•	•
CORSAIR	CMK64GX4M4A2666C16(Ver4.31)(XMP)	4x 16GB	DS	Samsung	15-15-15-36	1.2	•	•
CORSAIR	CMK8GX2M2D2666C16(Ver3.21)(XMP)	2x 4GB	SS	Micron	16-18-18-35	1.2	•	•
CORSAIR	CMK8GX4M2A2666C16(Ver3.22)(XMP)	2x 4GB	SS	Micron	16-18-18-35	1.2	•	•
CORSAIR	CMK8GX4M2D2666C16(Ver3.11)(XMP)	2x 4GB	DS	Micron	16-18-18-35	1.2	•	•
CORSAIR	CMR16GX4M2A2666C16(Ver5.30)(XMP)	2x 8GB	SS	SK Hynix	16-18-18-35	1.2	•	•
CORSAIR	CMR64GX4M8A2666C16(Ver5.30)(XMP)	8x 8GB	SS	SK Hynix	16-18-18-35	1.2	•	•
CORSAIR	CMU32GX4M4A2666C16(Ver5.30)(XMP)	4x 8GB	SS	SK Hynix	16-18-18-35	1.2	•	•
CORSAIR	CMV16GX4M1A2666C18	16GB	DS	Micron	18-18-18-43	1.2	•	•
CORSAIR	CMV4GX4M1A2666C18	4GB	SS	Micron	18-18-18-43	1.2	•	•
CORSAIR	CMV8GX4M1A2666C18	8GB	SS	Micron	18-18-18-43	1.2	•	•
crucial	BLE4G4D26AFAE.8FAD(XMP)	4GB	SS	Micron	16-17-17-36	1.2	•	•
crucial	BLE8G4D26AFAE.16FAD(XMP)	8GB	DS	Micron	16-17-17-36	1.2	•	•
crucial	BLS16G4D26BFSB.16FD(XMP)	16GB	DS	Micron	16-18-18-38	1.2	•	•
crucial	BLS16G4D26BFS.16FD(XMP)	16GB	DS	Micron	16-18-18-38	1.2	•	•
crucial	BLS4G4D26BFSB.8FB(XMP)	4GB	SS	Micron	16-18-18-38	1.2	•	•
crucial	BLS4G4D26BFS.8FB(XMP)	4GB	SS	Micron	16-18-18-38	1.2	•	•
crucial	BLS8G4D26BFSBK.8FD(XMP)	8GB	SS	Micron	16-18-18-38	1.2	•	•
crucial	BLS8G4D26BFS.8FD(XMP)	8GB	SS	Micron	16-18-18-38	1.2	•	•
crucial	BLS8G4D26BFS.8FB(XMP)	8GB	SS	Micron	16-18-18-38	1.2	•	•
crucial	BLT4G4D26AFTA.8FADG(XMP)	4GB	SS	Micron	16-16-16-39	1.2	•	•
crucial	BLT4G4D26AFTA.8FADG(XMP)	4x4GB	SS	Micron	16-17-17-36	1.2	•	•
crucial	BLT8G4D26AFTA.16FAD(XMP)	4x 8GB	DS	Micron	16-17-17-36	1.2	•	•
crucial	BLT8G4D26AFTA.16FAD(XMP)	8GB	DS	Micron	16-16-16-39	1.2	•	•
crucial	CT16G4DFD8266.16FE1	16GB	DS	Micron	19-19-19-43	1.2	•	•
Crucial	CT16G4DFD8266.M16FE	16GB	DS	Micron	19-19-19-43	1.2	•	•
crucial	CT32G4DFD8266.16FB1	32GB	DS	Micron	19-19-19-43	1.2	•	•
crucial	CT8G4DFS8266.8FE1	8GB	SS	Micron	19-19-19-43	1.2	•	•
crucial	CT8G4DFS8266.M8FE	8GB	SS	Micron	19-19-19-43	1.2	•	•
G.SKILL	F4-2666C15Q-16GRR(XMP)	4x 4GB	SS	Hynix	15-15-15-35	1.2	•	•
G.SKILL	F4-2666C15Q-32GRR(XMP)	4x 8GB	DS	SK Hynix	15-15-15-35	1.2	•	•
G.SKILL	F4-2666C16Q2-128GVK(XMP)	8x 16GB	DS	SK Hynix	16-16-16-36	1.2	•	•
GeIL	GREXR432GB2666C16QC(XMP)	4x 8GB	SS	Micron	16-18-18-36	1.35	•	•
GeIL	GREXR464GB2666C16QC(XMP)	4x 16GB	DS	Micron	16-18-18-36	1.35	•	•
Hyper X	HX426C13PB3/16(XMP)	16GB	DS	SK Hynix	13-15-15-35	1.35	•	•
Hyper X	HX426C13PB3K2/32(XMP)	2x 16GB	DS	SK Hynix	13-15-15-35	1.35	•	•
Hyper X	HX426C13PB3K4/64(XMP)	4x 16GB	DS	SK Hynix	13-15-15-35	1.35	•	•
Hyper X	HX426C13SB2/4(XMP)	4GB	SS	SK Hynix	15-15-15-36	1.35	•	•
Hyper X	HX426C13SB2K2/16(XMP)	2x 8GB	DS	Nanya	15-15-15-36	1.35	•	•
Hyper X	HX426C13SB2K2/8(XMP)	2x 4GB	SS	SK Hynix	15-15-15-36	1.35	•	•
Hyper X	HX426C13SB2K4/16(XMP)	4x 4GB	SS	SK Hynix	15-15-15-36	1.35	•	•
Hyper X	HX426C13SB2K4/32(XMP)	4x 8GB	DS	Nanya	15-15-15-36	1.35	•	•
Hyper X	HX426C15FB/4	4GB	SS	SK Hynix	15-17-17-35	1.2	•	•
Hyper X	HX426C15FB/4	4GB	SS	Micron	15-17-17-35	1.2	•	•
Hyper X	HX426C15FB/8	8GB	DS	SK Hynix	15-17-17-35	1.2	•	•
Hyper X	HX426C15FB/8	8GB	DS	Micron	15-17-17-35	1.2	•	•

Hyper X	HX426C15FBK2/16	2x 8GB	DS	SK Hynix	15-15-17-35	1.2	•	•
Hyper X	HX426C15FBK2/16	2x 8GB	DS	SK Hynix	15-17-17-35	1.2	•	•
Hyper X	HX426C15FBK2/16	2x 8GB	DS	Micron	15-17-17-35	1.2	•	•
Hyper X	HX426C15FBK2/8	2x 4GB	SS	SK Hynix	15-17-17-35	1.2	•	•
Hyper X	HX426C15FBK2/8	2x 4GB	SS	Micron	15-17-17-35	1.2	•	•
Hyper X	HX426C15FBK4/16	4x 4GB	SS	SK Hynix	15-17-17-35	1.2	•	•
Hyper X	HX426C15FBK4/16	4x 4GB	SS	Micron	15-17-17-35	1.2	•	•
Hyper X	HX426C15FBK4/32	4x 8GB	DS	SK Hynix	15-17-17-35	1.2	•	•
Hyper X	HX426C15FBK4/32	4x 8GB	DS	Micron	15-17-17-35	1.2	•	•
Hyper X	HX426C15SBK4/64(XMP)	4x 16GB	DS	SK Hynix	15-15-15-35	1.2	•	•
Hyper X	HX426C16FB2/8(XMP)	8GB	SS	SK Hynix	16-18-18-39	1.2	•	•
Hyper X	HX426C16FB2K2/16(XMP)	2x 8GB	SS	SK Hynix	16-18-18-39	1.2	•	•
Hyper X	HX426C16FB2K2/32(XMP)	4x 8GB	SS	SK Hynix	16-18-18-39	1.2	•	•
Hyper X	HX426C16FBK4/64	4x 16GB	DS	SK Hynix	16-18-18-39	-	•	•
Hyper X	HX426C16FW/16	16GB	DS	SK Hynix	16-18-18-39	1.2	•	•
Hyper X	HX426C16FWK2/32	2x 16GB	DS	SK Hynix	16-18-18-39	1.2	•	•
Hyper X	HX426C16FWK4/64	4x 16GB	DS	SK Hynix	16-18-18-39	1.2	•	•
INNODISK	M4U0-8GS1JCIC-E93	8GB	SS	Samsung	19-19-19-43	1.2	•	•
INNODISK	M4U0-8GSSKCIK-E93	8GB	DS	Samsung	19-19-19-43	1.2	•	•
INNODISK	M4U0-AGS1KCIC-E93	16GB	DS	Samsung	19-19-19-43	1.2	•	•
J&A	JRLL4U2666172408-8M	8GB	SS	-	19-19-19-43	1.2	•	•
J&A	JRLL4U2666172408-16M	16GB	DS	-	19-19-19-43	1.2	•	•
J&A	JRLL4U2666172408-4M	4GB	SS	-	19-19-19-43	1.2	•	•
Kingston	KVR26N19D8/16	16GB	DS	Micron	19-19-19-43	1.2	•	•
Kingston	KVR26N19D8/16	16GB	DS	Micron	19-19-19-43	1.2	•	•
Kingston	KVR26N19D8/16l	16GB	DS	Kingston	19-19-19-43	1.2	•	•
Kingston	KVR26N19S8/8	8GB	SS	Micron	19-19-19-43	1.2	•	•
Kingston	KVR26N19S8/8	8GB	SS	Micron	19-19-19-43	1.2	•	•
Klevv	IM44GU48N26-FFFHAZ(XMP)	4GB	SS	SK Hynix	15-15-15-35	1.2	•	•
Klevv	IM48GU88N26-FFFHMZ(XMP)	8GB	SS	SK Hynix	15-15-15-35	1.2	•	•
Klevv	IM44GU88N26-FFFHMZ(XMP)	16GB	DS	SK Hynix	15-15-15-35	1.2	•	•
Klevv	KD44GU481-26N1600(XMP)	4GB	SS	ESSENTIOK	16-18-18-38	1.2	•	•
Klevv	KD48GU481-26N1600(XMP)	8GB	DS	ESSENTIOK	16-18-18-38	1.2	•	•
Klevv	KM4C8GX4N-2666-15-15-15-35-0 (XMP)	8GB	DS	SK Hynix	15-15-15-35	1.2	•	•
Klevv	KM4C8GX4N-2666-15-15-15-35-1(XMP)	8GB	DS	SK Hynix	15-15-15-35	1.2	•	•
Micron	MTA16ATF2G64AZ-2G6E1	16GB	DS	Micron	19-19-19-43	1.2	•	•
Micron	MTA16ATF2G64AZ-2G6E1	16GB	DS	Micron	19-19-19-43	-	•	•
Micron	MTA16ATF2G64AZ-2G6H1	16GB	DS	Micron	19-19-19-43	-	•	•
Micron	MTA16ATF4G64AZ-2G6B1	32GB	DS	Micron	19-19-19-43	1.2	•	•
Micron	MTA8ATF1G64AZ-2G6E1	8GB	SS	Micron	19-19-19-43	1.2	•	•
Micron	MTA8ATF1G64AZ-2G6E1	8GB	SS	Micron	19-19-19-43	1.2	•	•
Micron	MTA8ATF1G64AZ-2G6H1	8GB	SS	Micron	19-19-19-43	-	•	•
panram	W4U2666PS-16G	2x 16GB	DS	SK Hynix	16-18-18-35	1.2	•	•
panram	W4U2666PS-8G	2x 8GB	SS	SK Hynix	16-18-18-35	1.2	•	•
Patriot	PVR416G266C5K(XMP)	2x 8GB	SS	Micron	15-17-17-35	1.2	•	•
SK Hynix	HMA81GU6CJR8N-VK	8GB	SS	SK Hynix	19-19-19-43	1.2	•	•
SK Hynix	HMA82GU6CJR8N-VK	16GB	DS	SK Hynix	19-19-19-43	-	•	•
SK Hynix	HMA851U6CJR6N-VK	4GB	SS	SK Hynix	19-19-19-43	1.2	•	•
SK Hynix	HMAA4GU6AJR8N-VK	32GB	DS	SK Hynix	19-19-19-43	-	•	•
SL LINK	J4AGUH1G8QHBC	16GB	DS	SK Hynix	19-19-19-43	1.2	•	•
SL LINK	J4BGUS2G8QHBC	32GB	DS	-	19-19-19-43	1.2	•	•
Team	TED416G2666C1901	16GB	DS	Micron	19-19-19-43	1.2	•	•
Team	TED416G2666C19DC01	2x 8GB	SS	Micron	19-19-19-43	1.2	•	•
Team	TED416G2666C19QC01	4x 4GB	SS	Team	19-19-19-43	1.2	•	•
Team	TED432G2666C19DC01	2x 16GB	DS	Micron	19-19-19-43	1.2	•	•
Team	TED432G2666C19QC01	4x 8GB	SS	SK Hynix	19-19-19-43	1.2	•	•
Team	TED44G2666C1901	4GB	SS	Team	19-19-19-43	1.2	•	•
Team	TED44G2666C19BK	4GB	SS	Team	19-19-19-43	1.2	•	•
Team	TED464G2666C19QC01	4x 16GB	DS	Micron	19-19-19-43	1.2	•	•
Team	TED48G2666C1901	8GB	SS	Micron	19-19-19-43	1.2	•	•
Team	TED48G2666C19DC01	2x 4GB	SS	Team	19-19-19-43	1.2	•	•
Team	TPD416G2666HC1901	16GB	DS	Micron	19-19-19-43	1.2	•	•
Team	TPD416G2666HC19BK	16GB	DS	Micron	19-19-19-43	1.2	•	•
Team	TPD416G2666HC19DC01	2x 8GB	SS	Micron	19-19-19-43	1.2	•	•
Team	TPD416G2666HC19QC01	4x 4GB	SS	Team	19-19-19-43	1.2	•	•
Team	TPD432G2666HC19DC01	2x 16GB	DS	Micron	19-19-19-43	1.2	•	•
Team	TPD432G2666HC19QC01	4x 8GB	SS	Micron	19-19-19-43	1.2	•	•
Team	TPD44G2666HC1901	4GB	SS	Team	19-19-19-43	1.2	•	•
Team	TPD464G2666HC19QC01	4x 16GB	DS	Micron	19-19-19-43	1.2	•	•
Team	TPD48G2666HC1901	8GB	SS	Micron	19-19-19-43	1.2	•	•
Team	TPD48G2666HC19BK	8GB	SS	Micron	19-19-19-43	1.2	•	•
Team	TPD48G2666HC19DC01	2x 4GB	SS	Team	19-19-19-43	1.2	•	•
Team	TPRD416G2666HC1901	16GB	DS	Micron	19-19-19-43	1.2	•	•
Team	TPRD416G2666HC19DC01	2x 8GB	SS	Micron	19-19-19-43	1.2	•	•
Team	TPRD416G2666HC19QC01	4x 4GB	SS	Team	19-19-19-43	1.2	•	•
Team	TPRD432G2666HC19DC01	2x 16GB	DS	Micron	19-19-19-43	1.2	•	•
Team	TPRD432G2666HC19QC01	4x 8GB	SS	Micron	19-19-19-43	1.2	•	•
Team	TPRD44G2666HC1901	4GB	SS	Team	19-19-19-43	1.2	•	•
Team	TPRD464G2666HC19QC01	4x 16GB	DS	Micron	19-19-19-43	1.2	•	•
Team	TPRD48G2666HC1901	8GB	SS	Micron	19-19-19-43	1.2	•	•
Team	TPRD48G2666HC19DC01	2x 4GB	SS	Team	19-19-19-43	1.2	•	•
Team	TPRD48G2666HC19QC01	2x 4GB	SS	Team	19-19-19-43	1.2	•	•
Tigo	TMKG8G2666C16(XMP)	8GB	SS	Micron	16-18-18-38	1.2	•	•

#### DDR4 2800 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Timing	Voltage	DIMM socket support (Optional)	
							1 DIMM	2 DIMM
ADATA	AX4U2800W8G17-BRD(XMP)	8GB	DS	Samsung	17-17-17-36	1.2	•	•
Apacer	78.BAGM8.AF20B(XMP)	4x 4GB	SS	SK Hynix	17-17-17-36	-	•	•
Apacer	78.CAGM8.AF30B(XMP)	4x 8GB	DS	SK Hynix	17-17-17-36	-	•	•
G.SKILL	F4-2800C14Q-64GVK(XMP)	4x 16GB	DS	Samsung	14-14-14-35	1.35	•	•
G.SKILL	F4-2800C15Q2-128GRKD(XMP)	8x 16GB	DS	Samsung	15-15-15-36	1.35	•	•
G.SKILL	F4-2800C15Q2-64GRK(XMP)	8x 8GB	DS	SK Hynix	15-16-16-35	1.25	•	•
G.SKILL	F4-2800C15Q2-64GRK(XMP)	8x 8GB	DS	SK Hynix	15-15-15-35	1.25	•	•
G.SKILL	F4-2800C16Q-16GRK(XMP)	4x 4GB	SS	Samsung	16-16-16-36	1.2	•	•
G.SKILL	F4-2800C16Q-16GRR(XMP)	4x 4GB	SS	SK Hynix	16-16-16-36	1.2	•	•
G.SKILL	F4-2800C16Q-32GRK(XMP)	4x 8GB	DS	Samsung	16-16-16-36	1.2	•	•
G.SKILL	F4-2800C16Q-32GRR(XMP)	4x 8GB	DS	SK Hynix	16-16-16-36	1.2	•	•
GeIL	GPR416GB2800C16QC(XMP)	4x 4GB	SS	SK Hynix	16-16-16-36	1.2	•	•
GeIL	GPR432GB2800C16QC(XMP)	4x 8GB	DS	SK Hynix	16-16-16-36	1.2	•	•
Hyper X	HX428C14PBK8/64(XMP)	8x 8GB	DS	SK Hynix	14-15-15-39	1.35	•	•

Hyper X	HX428C14SB2/4(XMP)	4GB	SS	SK Hynix	15-15-15-36	1.35	•	•
Hyper X	HX428C14SB2K2/8(XMP)	2x 4GB	SS	SK Hynix	15-15-15-36	1.35	•	•
Hyper X	HX428C14SB2K4/16(XMP)	4x 4GB	SS	SK Hynix	15-15-15-36	1.35	•	•
KINGMAX	GLMG42F-18KIIA-CJBR4(XMP)	8GB	SS	KINGMAX	17-17-17-39	1.2	•	•
Klevv	IMA451U6MFR8N-DG0(Ver1.05)(XMP)	4GB	SS	SK Hynix	16-16-16-36	1.2	•	•
NEO FORZA	NFMUD416E8-2800EB2A(XMP)	16GB	DS	SK Hynix	17-17-17-36	-	•	•
NEO FORZA	NFMUD416E8-2800EB3A(XMP)	16GB	DS	SK Hynix	17-17-17-36	-	•	•
NEO FORZA	NFMUD416E8-2800EC2A(XMP)	16GB	DS	SK Hynix	17-17-17-36	-	•	•
NEO FORZA	NFMUD416E8-2800EC3A(XMP)	16GB	DS	SK Hynix	17-17-17-36	-	•	•
NEO FORZA	NFMUD416E8-2800ED2A(XMP)	16GB	DS	SK Hynix	17-17-17-36	-	•	•
NEO FORZA	NFMUD416E8-2800EH2A(XMP)	16GB	DS	SK Hynix	17-17-17-36	-	•	•
NEO FORZA	NFMUD416E8-2800EH2A(XMP)	16GB	DS	SK Hynix	17-17-17-36	-	•	•
NEO FORZA	NFMUD480E8-2800DB2A(XMP)	8GB	SS	SK Hynix	17-17-17-36	-	•	•
NEO FORZA	NFMUD480E8-2800DB3A(XMP)	8GB	SS	SK Hynix	17-17-17-36	-	•	•
NEO FORZA	NFMUD480E8-2800DC2A(XMP)	8GB	SS	SK Hynix	17-17-17-36	-	•	•
NEO FORZA	NFMUD480E8-2800DC3A(XMP)	8GB	SS	SK Hynix	17-17-17-36	-	•	•
NEO FORZA	NFMUD480E8-2800DD2A(XMP)	8GB	SS	SK Hynix	17-17-17-36	-	•	•
NEO FORZA	NFMUD480E8-2800DD3A(XMP)	8GB	SS	SK Hynix	17-17-17-36	-	•	•
NEO FORZA	NFMUD480E8-2800DH2A(XMP)	8GB	SS	SK Hynix	17-17-17-36	-	•	•
NEO FORZA	NFMUD480E8-2800DH2A(XMP)	8GB	SS	SK Hynix	17-17-17-36	-	•	•

#### DDR4 2933 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Timing	Voltage	DIMM socket support (Optional)	
							1 DIMM	2 DIMM
CORSAIR	CMK128GX4M8Z2933C16(Ver4.31)	8x 16GB	DS	Samsung	16-18-18-36	1.35	•	•
CORSAIR	CMK128GX4M8Z2933C16(Ver4.31)(XMP)	8x 16GB	DS	Samsung	16-18-18-36	1.35	•	•
CORSAIR	CMK16GX4M2Z2933C16(Ver3.31)	8GBx2	SS	Micron	16-18-18-36	1.35V	•	•
CORSAIR	CMW16GX4M2Z2933C16(Ver3.31)	8GBx2	SS	Micron	16-18-18-36	1.35V	•	•
CORSAIR	CMW16GX4M2Z2933C16(Ver4.35)	8GBx2	SS	Samsung	16-18-18-36	1.35V	•	•
CORSAIR	CMW32GX4M2Z2933C16(Ver4.32)	16GBx2	DS	Samsung	16-18-18-36	1.35V	•	•
CORSAIR	CMW16GX4M2Z2933C16(Ver4.31)	8GBx2	SS	Samsung	16-18-18-36	1.35V	•	•
CORSAIR	CMW32GX4M2Z2933C16(Ver4.31)	16GBx2	DS	Samsung	16-18-18-36	1.35V	•	•
CORSAIR	CMK16GX4M2Z2933C16(Ver5.32)	8GBx2	SS	Hynix	16-18-18-36	1.35V	•	•
CORSAIR	CMW16GX4M2Z2933C16(Ver5.32)	8GBx2	SS	Hynix	16-18-18-36	1.35V	•	•
CORSAIR	CMW32GX4M2Z2933C16(Ver5.32)	16GBx2	DS	Hynix	16-18-18-36	1.35V	•	•
G.SKILL	F4-2933C16D-16GFX(XMP)	2x 8GB	SS	Samsung	16-16-16-36	1.35	•	•
G.SKILL	F4-2933C16Q-32GFX(XMP)	4x 8GB	SS	Samsung	16-16-16-36	1.35	•	•
Hyper X	HX429C15PB3AK4/32(XMP)	4x 8GB	SS	Micron	15-17-17-39	1.35	•	•
Hyper X	HX429C17FB/16(XMP)	16GB	DS	Micron	17-19-19-39	1.2	•	•
Hyper X	HX429C17FB/4	4GB	SS	Micron	17-19-19-39	1.2	•	•
Hyper X	HX429C17FB2/8(XMP)	8GB	SS	Micron	17-19-19-39	1.2	•	•
Hyper X	HX429C17FB2K2/16(XMP)	2x 8GB	SS	Micron	17-19-19-39	1.2	•	•
Hyper X	HX429C17FB2K4/32(XMP)	4x 8GB	SS	Micron	17-19-19-39	1.2	•	•
Hyper X	HX429C17FBK2/32(XMP)	2x 16GB	DS	Micron	17-19-19-39	1.2	•	•
Hyper X	HX429C17FBK2/8	2x 4GB	SS	Micron	17-19-19-39	1.2	•	•
Hyper X	HX429C17FBK4/16	4x 4GB	SS	Micron	17-19-19-39	1.2	•	•
Hyper X	HX429C17FBK4/64(XMP)	4x 16GB	DS	Micron	17-19-19-39	1.2	•	•
Hyper X	HX429C17FR/16(XMP)	16GB	DS	Micron	17-19-19-39	1.2	•	•
Hyper X	HX429C17FR2/8(XMP)	8GB	SS	Micron	17-19-19-39	1.2	•	•
Hyper X	HX429C17FR2K2/16(XMP)	2x 8GB	SS	Micron	17-19-19-39	1.2	•	•
Hyper X	HX429C17FR2K4/32(XMP)	4x 8GB	SS	Micron	17-19-19-39	1.2	•	•
Hyper X	HX429C17FRK2/32(XMP)	2x 16GB	DS	Micron	17-19-19-39	1.2	•	•
Hyper X	HX429C17FRK4/64(XMP)	4x 16GB	DS	Micron	17-19-19-39	1.2	•	•
Hyper X	HX429C17FW/16(XMP)	16GB	DS	Micron	17-19-19-39	1.2	•	•
Hyper X	HX429C17FW2/8(XMP)	8GB	SS	Micron	17-19-19-39	1.2	•	•
Hyper X	HX429C17FW2K2/16(XMP)	2x 8GB	SS	Micron	17-19-19-39	1.2	•	•
Hyper X	HX429C17FW2K4/32(XMP)	4x 8GB	SS	Micron	17-19-19-39	1.2	•	•
Hyper X	HX429C17FWK2/32(XMP)	2x 16GB	DS	Micron	17-19-19-39	1.2	•	•
Hyper X	HX429C17FWK4/64(XMP)	2x 16GB	DS	Micron	17-19-19-39	1.2	•	•

#### DDR4 3000 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Timing	Voltage	DIMM socket support (Optional)	
							1 DIMM	2 DIMM
ADATA	AX4U300038G16-BBG(XMP)	8GB	SS	SK Hynix	16-18-18-36	1.35	•	•
Antec	AMD4UZ130001608G-5S(XMP)	8GB	SS	Micron	16-18-18-36	1.35	•	•
Apacer	EK.16GAW.KFBK2(XMP)	8GB	DS	SK Hynix	16-18-18-36	-	•	•
CORSAIR	CMD16GX4M4B3000C15(Ver4.23)(XMP)	4x 4GB	SS	-	15-17-17-35	1.35	•	•
CORSAIR	CMD16GX4M4B3000C15(Ver4.24)(XMP)	4x 4GB	SS	SAMSUNG	15-17-17-35	1.35	•	•
CORSAIR	CMD32GX4M2B3000C15(Ver5.31)(XMP)	2x 16GB	DS	SK Hynix	15-17-17-35	1.35	•	•
CORSAIR	CMD32GX4M4C3000C15(Ver3.32)(XMP)	4x 8GB	DS	SK Hynix	15-17-17-35	1.35	•	•
CORSAIR	CMD32GX4M4C3000C15(Ver5.32)(XMP)	4x 8GB	SS	SK Hynix	15-17-17-35	1.35	•	•
CORSAIR	CMK16GX4M1B3000C15(Ver3.32)(XMP)	16GB	DS	Micron	15-17-17-35	1.35	•	•
CORSAIR	CMK16GX4M2B3000C15(Ver3.32)(XMP)	2x 8GB	SS	Micron	15-17-17-35	1.35	•	•
CORSAIR	CMK16GX4M2B3000C15(Ver5.30)(XMP)	2x 8GB	SS	SK Hynix	15-17-17-35	1.35	•	•
CORSAIR	CMK16GX4M2B3000C15(Ver5.30)(XMP)	2x 8GB	SS	SK Hynix	15-17-17-35	1.35	•	•
CORSAIR	CMK16GX4M2B3000C15(Ver5.30)(XMP)	2x 8GB	SS	SK Hynix	15-17-17-35	1.35	•	•
CORSAIR	CMK16GX4M2C3000C16(Ver3.31)(XMP)	2x 8GB	SS	Micron	16-18-18-36	1.35	•	•
CORSAIR	CMK16GX4M4B3000C15(Ver5.20)(XMP)	4x 4GB	SS	SK Hynix	15-17-17-35	1.35	•	•
CORSAIR	CMK32GX4M2B3000C15(Ver4.31)(XMP)	2x 16GB	DS	-	15-15-15-36	1.35	•	•
CORSAIR	CMK32GX4M4B3000C15(Ver4.24)(XMP)	4x 8GB	DS	Samsung	15-17-17-35	1.35	•	•
CORSAIR	CMK32GX4M4B3000C15(Ver5.29)(XMP)	4x 8GB	DS	-	15-17-17-35	1.35	•	•
CORSAIR	CMK64GX4M2D3000C16(Ver3.40)(XMP)	2x 32GB	DS	Micron	16-20-20-38	1.35	•	•
CORSAIR	CMK64GX4M4B3000C15(Ver4.31)(XMP)	4x 16GB	DS	-	15-17-17-35	1.35	•	•
CORSAIR	CMK8GX4M2B3000C15(Ver4.23)(XMP)	2x 4GB	DS	-	15-17-17-35	1.35	•	•
CORSAIR	CMR128GX4M8C3000C16(Ver4.31)(XMP)	8x 16GB	DS	Samsung	16-18-18-36	1.35	•	•
CORSAIR	CMR16GX4M2C3000C15(Ver4.31)(XMP)	2x 8GB	SS	SK Hynix	15-17-17-35	1.35	•	•
CORSAIR	CMR16GX4M2C3000C15(Ver5.30)(XMP)	2x 8GB	SS	SK Hynix	15-17-17-35	1.35	•	•
CORSAIR	CMR32GX4M2C3000C15(Ver4.31)(XMP)	2x 16GB	DS	Samsung	15-17-17-35	1.35	•	•
CORSAIR	CMR32GX4M4C3000C15(Ver3.32)(XMP)	4x 8GB	SS	Micron	15-17-17-35	1.35	•	•
CORSAIR	CMR32GX4M4C3000C15(Ver5.39)(XMP)	4x 8GB	SS	SK Hynix	15-17-17-35	1.35	•	•
CORSAIR	CMR64GX4M4C3000C15(Ver3.32)(XMP)	4x 16GB	DS	Micron	15-17-17-35	1.35	•	•
CORSAIR	CMU16GX4M2C3000C15(Ver3.21)(XMP)	2x 8GB	DS	Micron	15-15-15-36	1.35	•	•
CORSAIR	CMW32GX4M4C3000C15(Ver5.32)(XMP)	4x 8GB	SS	SK Hynix	15-17-17-35	1.35	•	•
CORSAIR	CMW64GX4M8C3000C15(Ver5.32)(XMP)	8x 8GB	SS	SK Hynix	15-17-17-35	1.35	•	•
crucial	BLE4G4D30AEEA.K8FE(XMP)	4GB	SS	Samsung	15-16-16-35	1.35	•	•
crucial	BLE8G4D30AEEA.K16FE(XMP)	8GB	DS	Samsung	15-16-16-35	1.35	•	•
crucial	BLS16G4D30AESB.M16FE1(XMP)	16GB	DS	Micron	15-16-16-35	1.35	•	•
crucial	BLS8G4D30AESB.K8FE(XMP)	8GB	SS	Micron	15-16-16-35	1.35	•	•

crucial	BLT4G4D30AETA.K8FE(XMP)	4GB	SS	Samsung	15-16-16-35	1.35		
crucial	BLT8G4D30AETA.K16FE(XMP)	8GB	DS	Samsung	15-16-16-35	1.35		
Crucial	BLT8G4D30BETA.K8C8FD(XMP)	8GB	SS	Micron	16-18-18-38	1.35		
G.SKILL	F4-3000C14Q2-128GVK(XMP)	16GB	DS	Samsung	15-15-15-36	1.35		
G.SKILL	F4-3000C15D-8GTZB(XMP)	2x 4GB	SS	Samsung	15-16-16-35	1.35		
G.SKILL	F4-3000C15Q-16GRK(XMP)	4x 4GB	SS	Samsung	15-15-15-35	1.35		
G.SKILL	F4-3000C15Q-16GRR(XMP)	4x 4GB	SS	SK Hynix	15-15-15-35	1.35		
G.SKILL	F4-3000C16D-16GTZR(XMP)	2x 8GB	SS	SK Hynix	16-18-18-38	1.35		
G.SKILL	F4-3000C16Q2-128GVK(XMP)	16GB	DS	SK Hynix	16-18-18-38	1.35		
GeIL	GEHX432GB3000C15AQ(XMP)	4x 8GB	SS	Samsung	15-17-17-35	1.35		
GeIL	GLR416GB3000C15ADC(XMP)	8GB	SS	SK Hynix	15-17-17-35	1.35		
GeIL	GLR416GB3000C16QC(XMP)	4x 4GB	SS	Samsung	16-16-16-36	1.35		
Hyper X	HX430C15PB2K4/16(XMP)	4x 4GB	SS	SK Hynix	15-16-16-39	1.35		
Hyper X	HX430C15PB3/16(XMP)	16GB	DS	SK Hynix	15-17-17-36	1.35		
Hyper X	HX430C15PB3/8(XMP)	8GB	SS	SK Hynix	15-17-17-36	1.2		
Hyper X	HX430C15PB3AK4/32(XMP)	4x 8GB	SS	Hynix	15-17-17-36	1.35		
Hyper X	HX430C15PB3AK4/64(XMP)	4x 16GB	DS	Hynix	15-17-17-36	1.35		
Hyper X	HX430C15PB3K2/16(XMP)	2x 8GB	SS	SK Hynix	15-17-17-36	1.35		
Hyper X	HX430C15PB3K2/16(XMP)	2x 8GB	SS	SK Hynix	15-17-17-36	1.2		
Hyper X	HX430C15PB3K2/32(XMP)	2x 16GB	DS	SK Hynix	15-17-17-36	1.35		
Hyper X	HX430C15PB3K2/32(XMP)	2x 16GB	DS	SK Hynix	15-17-17-36	1.35		
Hyper X	HX430C15PB3K2/8(XMP)	2x 4GB	SS	SK Hynix	15-17-17-36	1.35		
Hyper X	HX430C15PB3K4/16(XMP)	4x 4GB	SS	SK Hynix	15-17-17-36	1.35		
Hyper X	HX430C15PB3K4/32(XMP)	4x 8GB	SS	SK Hynix	15-17-17-36	1.35		
Hyper X	HX430C15PB3K4/64(XMP)	4x 16GB	DS	SK Hynix	15-17-17-36	1.35		
Hyper X	HX430C15PB3K4/64(XMP)	4x 16GB	DS	SK Hynix	15-17-17-36	1.35		
Hyper X	HX430C15PB3K8/128(XMP)	8x 16GB	DS	SK Hynix	15-17-17-36	1.35		
Hyper X	HX430C15SB2/4(XMP)	4GB	SS	SK Hynix	15-15-15-36	1.35		
Hyper X	HX430C15SB2K2/8(XMP)	2x 4GB	SS	SK Hynix	15-15-15-36	1.35		
Hyper X	HX430C15SB2K4/16(XMP)	4x 4GB	SS	SK Hynix	15-15-15-36	1.35		
Hyper X	HX430C15SB2K4/32(XMP)	4x 8GB	DS	SK Hynix	15-17-17-39	1.35		
Hyper X	HX430C16PBK4/64(XMP)	16GB	DS	SK Hynix	16-16-16-39	1.35		
INNO3D	RXC2-16G3000A(XMP)	2x 8GB	SS	Micron	16-18-18-36	1.35		
Kleevv	IM44GU48A30-FGGHAZ(XMP)	4GB	SS	SK Hynix	15-15-16-36	1.35		
Kleevv	IM44GU48A30-GIIHMC(XMP)	4GB	SS	SK Hynix	16-18-18-36	1.35		
Kleevv	IM44GU48N30-FFHAB(XMP)	4GB	SS	SK Hynix	15-15-16-36	1.2		
Kleevv	IM48GU48A30-GIIHMC(XMP)	8GB	DS	SK Hynix	15-15-15-35	1.35		
Kleevv	IM48GU88A30-FGGHMHZ(XMP)	8GB	DS	SK Hynix	15-15-16-36	1.35		
Kleevv	IM48GU88N30-FFHMB(XMP)	8GB	SS	SK Hynix	15-15-16-36	1.2		
Kleevv	IM4AGU88A30-FGGHMZ(XMP)	16GB	DS	SK Hynix	15-15-16-36	1.35		
Kleevv	IM4AGU88N30-FFHMB(XMP)	16GB	DS	SK Hynix	15-15-16-36	1.2		
NEO FORZA	NFMUD416E8-3000DB2A(XMP)	16GB	DS	SK Hynix	15-17-17-35	-		
NEO FORZA	NFMUD416E8-3000DB3A(XMP)	16GB	DS	SK Hynix	15-17-17-35	-		
NEO FORZA	NFMUD416E8-3000DC2A(XMP)	16GB	DS	SK Hynix	15-17-17-35	-		
NEO FORZA	NFMUD416E8-3000DC3A(XMP)	16GB	DS	SK Hynix	15-17-17-35	-		
NEO FORZA	NFMUD416E8-3000DD2A(XMP)	16GB	DS	SK Hynix	15-17-17-35	-		
NEO FORZA	NFMUD416E8-3000DD3A(XMP)	16GB	DS	SK Hynix	15-17-17-35	-		
NEO FORZA	NFMUD416E8-3000DH2A(XMP)	16GB	DS	SK Hynix	15-17-17-35	-		
NEO FORZA	NFMUD416E8-3000DH2A(XMP)	16GB	DS	SK Hynix	15-17-17-35	-		
NEO FORZA	NFMUD416E8-3000DH2A(XMP)	16GB	DS	SK Hynix	15-17-17-35	-		
NEO FORZA	NFMUD480E8-3000DB2A(XMP)	8GB	SS	SK Hynix	15-17-17-35	-		
NEO FORZA	NFMUD480E8-3000DB3A(XMP)	8GB	SS	SK Hynix	15-17-17-35	-		
NEO FORZA	NFMUD480E8-3000DC2A(XMP)	8GB	SS	SK Hynix	15-17-17-35	-		
NEO FORZA	NFMUD480E8-3000DC3A(XMP)	8GB	SS	SK Hynix	15-17-17-35	-		
NEO FORZA	NFMUD480E8-3000DD2A(XMP)	8GB	SS	SK Hynix	15-17-17-35	-		
NEO FORZA	NFMUD480E8-3000DD3A(XMP)	8GB	SS	SK Hynix	15-17-17-35	-		
NEO FORZA	NFMUD480E8-3000DH2A(XMP)	8GB	SS	SK Hynix	15-17-17-35	-		
NEO FORZA	NFMUD480E8-3000DH2A(XMP)	8GB	SS	SK Hynix	15-17-17-35	-		
NEO FORZA	NFMUD416E82-3000DB30(XMP)	16GB	DS	SK Hynix	15-17-17-35	-		
NEO FORZA	NMUD480E82-3000DB30(XMP)	8GB	SS	SK Hynix	15-17-17-35	-		
PATRIOT	PV416G300C6K(XMP)	2x 8GB	SS	-	16-16-16-36	-		
PATRIOT	PV416G300C6K(XMP)	4x 8GB	SS	-	16-16-16-36	1.35		
PATRIOT	PV48G300C6K(XMP)	4x 4GB	SS	-	16-16-16-36	1.35		
Team	TCD44G3000C16CBK(XMP)	4GB	SS	SK Hynix	16-18-18-38	1.35		
Team	TF3D48G3000HC16CBK(XMP)	8GB	SS	Micron	16-18-18-38	1.35		
Team	TF3D48G3000HC16CBK(XMP)	8GB	SS	Hynix	16-18-18-38	1.35		
Team	TLTYD432G3000HC16CDC01(XMP)	2x 16GB	SS	Micron	16-18-18-38	1.35		
Thermaltake	R09D408GX2-3000C16A(XMP)	2x 8GB	SS	SK Hynix	16-18-18-38	1.35		
V-color	TL48G30S816R(XMP)	8GB	SS	SK Hynix	16-18-18-38	1.35		
V-color	TL48G30S8SRGB15(XMP)	8GB	SS	SK Hynix	15-15-16-35	1.35		
ZADAK	ZD4-M023000C16-08GAG(XMP)	8GB	SS	Samsung	16-18-18-38	1.35		

#### DDR4 3200 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Timing	Voltage	DIMM socket support (Optional)	
							1 DIMM	2 DIMM
ADATA	AX4U3200316G16-QGZ(XMP)	4x 16GB	DS	-	16-18-18-36	1.35		
Apacer	AH4U08G32C08YNBAA(XMP)	8GB	SS	Apacer	16-18-18-38	1.2		
Apacer	AHU08GB26CDU7M(XMP)	8GB	SS	-	16-16-16-36	1.35		
Apacer	AHU08GB32CKU7M(XMP)	8GB	SS	-	16-16-16-36	1.35		
Apacer	AHU08GB32CKU7M(XMP)	8GBx2	SS	Samsung	16-18-18-38	1.35		
Apacer	AHU08GB32CDU5H(EK.16GA1.GEBK2)	8GBx2	SS	Samsung	16-18-18-38	1.35		
Apacer	AHU08GB32CDU8R(EK.16GA1.GEDK2)	8GBx2	SS	Samsung	16-18-18-38	1.35		
CORSAIR	CMD16GX4M4B3200C15(Ver4.23)(XMP)	4x 4GB	SS	-	15-15-15-36	1.35		
CORSAIR	CMD16GX4M4B3200C16(Ver5.29)(XMP)	4x 4GB	SS	-	16-18-18-36	1.35		
CORSAIR	CMD16GX4M4C3200C15(Ver4.24)(XMP)	4x 4GB	SS	-	15-17-17-35	1.35		
CORSAIR	CMD32GX4M2C3200C16(Ver5.39)(XMP)	2x 16GB	DS	-	16-18-18-36	1.35		
CORSAIR	CMD64GX4M8B3200C16(Ver4.31)(XMP)	8x 8GB	SS	-	16-18-18-36	1.35		
CORSAIR	CMD64GX4M8B3200C16(Ver5.32)(XMP)	8x 8GB	SS	SK Hynix	16-18-18-36	1.35		
CORSAIR	CMK16GX4M2B3200C16(Ver4.23)(XMP)	2x 8GB	DS	-	16-18-18-36	1.35		
CORSAIR	CMK16GX4M2Z3200C16(Ver4.31)(XMP)	2x 8GB	SS	Samsung	16-18-18-36	1.35		
CORSAIR	CMK32GX4M2B3200C16(4.31)(XMP)	2x 16GB	DS	-	16-18-18-36	1.35		
CORSAIR	CMK32GX4M2B3200C16(5.39)(XMP)	2x 16GB	DS	-	16-18-18-36	1.35		
CORSAIR	CMK32GX4M2Z3200C16(Ver3.31)(XMP)	2x 16GB	DS	Mircon	16-18-18-36	1.35		
CORSAIR	CMK64GX4M4B3200C16(Ver4.31)(XMP)	4x 16GB	DS	-	16-18-18-36	1.35		
CORSAIR	CMT32GX4M4C3200C16(Ver4.31)(XMP)	4x 8GB	SS	Hynix	16-18-18-36	1.35		
CORSAIR	CMT32GX4M4Z3200C16(Ver5.32)(XMP)	4x 8GB	SS	Hynix	16-18-18-36	1.35		
CORSAIR	CMT64GX4M4C3200C16(Ver4.31)(XMP)	4x 16GB	DS	Samsung	16-18-18-36	1.35		
CORSAIR	CMW32GX4M2Z3200C16(Ver3.31)(XMP)	2x 16GB	DS	Mircon	16-18-18-36	1.35		
CORSAIR	CMW32GX4M4C3200C16(Ver5.32)(XMP)	4x 8GB	SS	Hynix	16-18-18-36	1.35		
CORSAIR	CMK16GX4M2D3200C16(Ver3.31)	8GBx2	SS	Micron	16-19-19-36	1.35		
CORSAIR	CMK32GX4M2D3200C16(Ver3.31)	16GBx2	DS	Micron	16-19-19-36	1.35		

CORSAIR	CMT16GX4M2C3200C16(Ver3.31)	8GBx2	SS	Micron	16-18-18-36	1.35	•	•
CORSAIR	CMT32GX4M2C3200C16(Ver3.31)	16GBx2	DS	Micron	16-18-18-36	1.35	•	•
CORSAIR	CMW32GX4M2Z3200C16(Ver3.31)	16GBx2	DS	Micron	16-18-18-36	1.35	•	•
CORSAIR	CMK32GX4M2Z3200C16(Ver3.31)	16GBx2	DS	Micron	16-18-18-36	1.35	•	•
CORSAIR	CMW16GX4M2C3200C16(Ver4.32)	8GBx2	SS	Samsung	16-18-18-36	1.35	•	•
CORSAIR	CMW32GX4M2C3200C16(Ver4.34)	16GBx2	DS	Samsung	16-18-18-36	1.35	•	•
CORSAIR	CMK16GX4M2Z3200C16(Ver4.31)	8GBx2	SS	Samsung	16-18-18-36	1.35	•	•
CORSAIR	CMT32GX4M2C3200C16(Ver4.31)	16GBx2	DS	Samsung	16-18-18-36	1.35	•	•
CORSAIR	CMT16GX4M2Z3200C16(Ver5.32)	8GBx2	SS	Hynix	16-18-18-36	1.35	•	•
CORSAIR	CMT32GX4M2C3200C16(Ver5.32)	16GBx2	DS	Hynix	16-18-18-36	1.35	•	•
CORSAIR	CMT32GX4M2C3200C16(Ver5.32)	16GBx2	DS	Hynix	16-18-18-36	1.35	•	•
CORSAIR	CMK16GX4M2Z3200C16(Ver5.38)	8GBx2	SS	Hynix	16-18-18-36	1.35	•	•
CORSAIR	CMW16GX4M2C3200C16(Ver5.38)	8GBx2	SS	Hynix	16-18-18-36	1.35	•	•
CORSAIR	CMT16GX4M2Z3200C16(Ver5.38)	8GBx2	SS	Hynix	16-18-18-36	1.35	•	•
CORSAIR	CMW32GX4M2C3200C16(Ver5.38)	16GBx2	DS	Hynix	16-18-18-36	1.35	•	•
crucial	BLE4G4D32AE EA.K8FE(XMP)	4GB	SS	-	16-18-18-36	1.35	•	•
crucial	BLS16G4D32A ESB.M16FE(XMP)	16GB	DS	-	16-18-18-36	1.35	•	•
crucial	BLS16G4D32A ESB.M16FE1(XMP)	16GB	DS	Micron	16-18-18-36	1.35	•	•
crucial	BLS16G4D32A EST.M16FE1(XMP)	16GB	DS	Micron	16-18-18-36	1.35	•	•
Crucial	BLS8G4D32A ESBK.8FE(XMP)	8GB	SS	Micron	16-18-18-36	1.35	•	•
crucial	BLS8G4D32A ESTK.M8FE(XMP)	8GB	SS	Micron	16-18-18-36	1.35	•	•
crucial	BLT8G4D32A ET4K.M8FE1(XMP)	8GB	SS	Micron	16-18-18-36	1.35	•	•
crucial	CT16G4DFD832A.16FE1	16GB	DS	Micron	22-22-22-52	1.2	•	•
crucial	CT16G4DFD832A.16FE1	16GB	DS	Micron	22-22-22-54	1.2	•	•
crucial	CT4G4DS632A.4FJ1	4GB	SS	Micron	22-22-22-52	1.2	•	•
crucial	CT8G4DF832A.8FE1	8GB	SS	Micron	22-22-22-54	1.2	•	•
crucial	CT8G4DFS832A.8FE1	8GB	SS	Micron	22-22-22-52	1.2	•	•
G.SKILL	F4-3200C14D-16GVK(XMP)	2x 8GB	SS	-	14-14-14-34	1.35	•	•
G.SKILL	F4-3200C14Q-32GFX(XMP)	4x 8GB	SS	-	14-14-14-34	1.35	•	•
G.SKILL	F4-3200C14Q-32GTZR(XMP)	4x 8GB	SS	Samsung	14-14-14-34	1.35	•	•
G.SKILL	F4-3200C16D-16GTZ(XMP)	2x 8GB	DS	-	16-16-16-36	1.35	•	•
G.SKILL	F4-3200C16D-32GTZA(XMP)	2x 16GB	DS	-	16-16-16-36	1.35	•	•
G.SKILL	F4-3200C16Q-32GTRS(XMP)	4x 8GB	SS	Hynix	16-18-18-38	1.35	•	•
G.SKILL	F4-3200C16Q-32GTZB(XMP)	4x 8GB	DS	-	16-18-18-38	1.35	•	•
G.SKILL	F4-3200C16S-16GTZKW(XMP)	16GB	DS	Hynix	16-18-18-38	1.35	•	•
G.SKILL	F4-3200C14D-16GTZN	8GBx2	SS	Samsung	14-14-14-34	1.35	•	•
G.SKILL	F4-3200C16D-16GTZN	8GBx2	SS	Samsung	16-18-18-38	1.35V	•	•
G.SKILL	F4-3200C14D-16GTRS	8GBx2	SS	Samsung	14-14-14-34	1.35	•	•
G.SKILL	F4-3200C14D-16GTRG	8GBx2	SS	Samsung	14-14-14-34	1.35	•	•
G.SKILL	F4-3200C16D-16GTRS	8GBx2	SS	Samsung	16-16-16-36	1.35	•	•
G.SKILL	F4-3200C16D-16GTRG	8GBx2	SS	Samsung	16-16-16-36	1.35	•	•
G.SKILL	F4-3200C14D-16GTZR	8GBx2	SS	Samsung	14-14-14-34	1.35	•	•
G.SKILL	F4-3200C16D-16GTZR	8GBx2	SS	Samsung	16-18-18-38	1.35	•	•
G.SKILL	F4-3200C14D-16GTZR	8GBx2	SS	Samsung	14-14-14-34	1.35	•	•
G.SKILL	F4-3200C16D-16GTZR	8GBx2	SS	Samsung	16-18-18-38	1.35	•	•
G.SKILL	F4-3200C14D-32GTZN	16GBx2	DS	Samsung	14-14-14-34	1.35	•	•
G.SKILL	F4-3200C16D-32GTZN	16GBx2	DS	Samsung	16-18-18-38	1.35	•	•
G.SKILL	F4-3200C14D-32GTRG	16GBx2	DS	Samsung	14-14-14-34	1.35	•	•
G.SKILL	F4-3200C16D-32GTRG	16GBx2	DS	Samsung	16-18-18-38	1.35	•	•
G.SKILL	F4-3200C16D-32GTRS	16GBx2	DS	Samsung	16-18-18-38	1.35	•	•
G.SKILL	F4-3200C14D-32GTZR	16GBx2	DS	Samsung	14-14-14-34	1.35	•	•
G.SKILL	F4-3200C16D-32GTZR	16GBx2	DS	Samsung	16-18-18-38	1.35	•	•
G.SKILL	F4-3200C16D-16GTZR	16GBx2	DS	Samsung	16-18-18-38	1.35	•	•
GEIL	GEX416GB3200C16DC	8GBx2	SS	Samsung	16-16-16-36	1.35	•	•
GEIL	GLS416GB3200C14DC	8GBx2	SS	Samsung	14-14-14-34	1.35	•	•
GEIL	GLWS416GB3200C14DC	8GBx2	SS	Samsung	14-14-14-34	1.35	•	•
Hyper X	HX432C16PB3/16(XMP)	16GB	DS	-	16-18-18-36	1.35	•	•
Hyper X	HX432C16PB3A/8(XMP)	8GB	SS	-	16-18-18-36	1.35	•	•
Hyper X	HX432C16PB3AK2/16(XMP)	2x 8GB	SS	-	16-18-18-36	1.35	•	•
Hyper X	HX432C16PB3AK4/32(XMP)	4x 8GB	SS	-	16-18-18-36	1.35	•	•
Hyper X	HX432C16PB3AK4/64(XMP)	4x 16GB	DS	Hynix	16-18-18-36	1.35	•	•
Hyper X	HX432C16PB3K2/16(XMP)	2x 8GB	SS	-	16-18-18-36	1.35	•	•
Hyper X	HX432C16PB3K2/32(XMP)	2x 16GB	DS	-	16-18-18-36	1.35	•	•
Hyper X	HX432C16PB3K4/64(XMP)	4x 16GB	DS	-	16-18-18-36	1.35	•	•
Hyper X	HX432C18FB/4	4GB	SS	Micron	18-21-21-39	1.2	•	•
Hyper X	HX432C18FBK2/8	2x 4GB	SS	Micron	18-21-21-39	1.2	•	•
Hyper X	HX432C18FBK4/16	4x 4GB	SS	Micron	18-21-21-39	1.2	•	•
KINGMAX	GZOG43F-18SIGP(XMP)	8GB	SS	-	16-18-18-38	1.35	•	•
Kingston	KVR32N22D8/16	16GB	DS	Micron	22-22-22-52	1.2	•	•
Kingston	KVR32N22S6/4	4GB	SS	Micron	22-22-22-52	1.2	•	•
Kingston	KVR32N22S8/8	8GB	SS	Micron	22-22-22-52	1.2	•	•
Kingston	HX432C16PB3K2/16	8GBx2	SS	Samsung	16-18-18-36	1.35	•	•
Klevv	IM48GU88A32-GI SEZ(XMP)	2x 8GB	DS	-	16-18-18-38	1.35	•	•
Klevv	KD48GU880-32A160T(XMP)	8GB	SS	SK Hynix	16-18-18-38	1.35	•	•
Micron	MTA16ATF2G64AZ-3G2E1	16GB	DS	Micron	22-22-22-52	1.2	•	•
Micron	MTA16ATF2G64AZ-3G2E1	16GB	DS	Micron	22-22-22-54	1.2	•	•
Micron	MTA4ATF51264AZ-3G2J1	4GB	SS	Micron	22-22-22-52	1.2	•	•
Micron	MTA8ATF1G64AZ-3G2E1	8GB	SS	Micron	22-22-22-52	1.2	•	•
Micron	MTA8ATF1G64AZ-3G2E1	8GB	SS	Micron	22-22-22-54	1.2	•	•
NEO FORZA	NFMUD416E8-3200DH2A(XMP)	16GB	SS	-	16-18-18-36	1.35	•	•
NEO FORZA	NFMUD480E8-3200DH2A(XMP)	8GB	SS	-	16-18-18-36	1.35	•	•
PATRIOT	PV48G320C6K(XMP)	2x 4GB	SS	-	16-18-18-36	1.35	•	•
PATRIOT	PVR416G320C6K(XMP)	2x 8GB	SS	Samsung	16-18-18-36	1.35	•	•
Silicon Power	SP008GXLZU320BSS(XMP)	8GB	SS	-	16-18-18-38	1.35	•	•
Super Talent	F3200UA4G(XMP)	4GB	SS	-	16-18-18-36	1.35	•	•
Super Talent	F3200UB16G(XMP)	16GB	DS	-	16-18-18-36	1.35	•	•
Team	TF2D48G3200HC16CBK(XMP)	8GB	SS	-	16-18-18-38	1.35	•	•
TeamGroup	TF1D48G3200HC16CBK	8GBx2	SS	Samsung	16-18-18-38	1.35	•	•
TeamGroup	TF2D48G3200HC16CBK	8GBx2	SS	Samsung	16-18-18-38	1.35	•	•
Thermaltake	CL-W251-CA00SW-A(XMP)	2x 8GB	SS	-	16-18-18-38	1.35	•	•
Thermaltake	CL-W252-CA00SW-A(XMP)	4x 8GB	SS	-	16-18-18-38	1.35	•	•
Thermaltake	R009D408GX2-3200C16A(XMP)	2x 8GB	SS	SK Hynix	16-18-18-38	1.35	•	•
V-color	TL48G32S8CRGB16(XMP)	8GB	SS	SAMSUNG	16-18-18-38	1.35	•	•
ZADAK	ZD4-SHA3200C16-08GAS(XMP)	8GB	SS	Samsung	16-18-18-38	1.35	•	•

#### DDR4 3466 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Timing	Voltage	DIMM socket support (Optional)	
							1 DIMM	2 DIMM
APACER	AHU08GGB34CJU6H (EK.16GA3.GGAK2)	8GBx2	SS	Samsung	18-18-18-42	1.35	•	•
APACER	AHU08GGB34CJU5H (EK.16GA3.GGBK2)	8GBx2	SS	Samsung	18-18-18-42	1.35	•	•

Gskill	F4-3466C16D-16GTZ	8GBx2	SS	Samsung	16-18-18-38	1.35	•	•
Gskill	F4-3466C16D-16GTZKW	8GBx2	SS	Samsung	16-18-18-38	1.35	•	•
Gskill	F4-3466C16D-16GTZSW	8GBx2	SS	Samsung	16-18-18-38	1.35	•	•
Gskill	F4-3466C16D-16GTZSK	8GBx2	SS	Samsung	16-18-18-38	1.35	•	•
Gskill	F4-3466C16D-16GTZR	8GBx2	SS	Samsung	16-18-18-38	1.35	•	•
Gskill	F4-3466C16D-16GVR	8GBx2	SS	Samsung	16-18-18-38	1.35	•	•
Gskill	F4-3466C16D-16GVK	8GBx2	SS	Samsung	16-18-18-38	1.35	•	•
CORSAIR	CMD32GX4M2B3466C16	16GBx2	DS	Samsung	16-18-18-36	1.35	•	•
CORSAIR	CMK32GX4M2B3466C16R	16GBx2	DS	Samsung	16-18-18-36	1.35	•	•
CORSAIR	CMK16GX4M2B3466C16	8GBx2	SS	Samsung	16-18-18-36	1.35	•	•
CORSAIR	CMR16GX4M2C3466C16	8GBx2	SS	Samsung	16-18-18-36	1.35	•	•
CORSAIR	CMD16GX4M2B3466C16	8GBx2	SS	Samsung	16-18-18-36	1.35	•	•
CORSAIR	CMK16GX4M2B3466C16R	8GBx2	SS	Samsung	16-18-18-36	1.35	•	•
CORSAIR	CMK16GX4M2Z3466C16(Ver4.31)	8GBx2	SS	Samsung	16-18-18-36	1.35	•	•
KLEVV	KD48GU880-34A170X	8GBx2	SS	Hynix	17-19-19-39	1.35	•	•

#### DDR4 3600 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Timing	Voltage	DIMM socket support (Optional)	
							1 DIMM	2 DIMM
CORSAIR	CMK16GX4M2B3600C18	8GBx2	SS	Samsung	18-19-19-39	1.35	•	•
CORSAIR	CMR16GX4M2C3600C18	8GBx2	SS	Samsung	18-19-19-39	1.35	•	•
CORSAIR	CMD16GX4M2B3600C18	8GBx2	SS	Samsung	18-19-19-39	1.35	•	•
CORSAIR	CMK16GX4M2B3600C18R	8GBx2	SS	Samsung	18-19-19-39	1.35	•	•
CORSAIR	CMW16GX4M2C3600C18	8GBx2	SS	Samsung	18-19-19-39	1.35	•	•
CORSAIR	CMT16GX4M2C3600C18	8GBx2	SS	Samsung	18-19-19-39	1.35	•	•
CORSAIR	CMK16GX4M2D3600C18	8GBx2	SS	Micron	18-22-22-42	1.35	•	•
CORSAIR	CMK16GX4M2D3600C18	8GBx2	SS	Micron	18-22-22-42	1.35	•	•
CORSAIR	CMT16GX4M2C3600C18	8GBx2	SS	Micron	18-19-19-39	1.35	•	•
CORSAIR	CMW16GX4M2Z3600C18	8GBx2	SS	Micron	18-22-22-42	1.35	•	•
CORSAIR	CMK16GX4M2Z3600C14	8GBx2	SS	Samsung	14-16-16-36	1.45	•	•
CORSAIR	CMT16GX4M2K3600C16	8GBx2	SS	Samsung	16-18-18-36	1.35	•	•
CORSAIR	CMK32GX4M2K3600C16	16Gx2	DS	Samsung	16-18-18-36	1.35	•	•
CORSAIR	CMT16GX4M2C3600C18	8GBx2	SS	Samsung	18-19-19-39	1.35	•	•
CORSAIR	CMK16GX4M2B3600C18	8GBx2	SS	Hynix	18-19-19-39	1.35	•	•
Gskill	F4-3600C16D-16GTZNC	8Gx2	SS	Samsung	16-19-19-39	1.35	•	•
Gskill	F4-3600C16D-16GTZN	8Gx2	SS	Samsung	18-22-22-42	1.35	•	•
Gskill	F4-3600C14D-16GTZN	8Gx2	SS	Samsung	14-15-15-35	1.4	•	•
Gskill	F4-3600C16D-16GTRS	8Gx2	SS	Samsung	16-16-16-36	1.35	•	•
Gskill	F4-3600C16D-16GTRG	8Gx2	SS	Samsung	16-16-16-36	1.35	•	•
Gskill	F4-3600C18D-16GTRS	8Gx2	SS	Samsung	18-22-22-42	1.35	•	•
Gskill	F4-3600C18D-16GTRG	8Gx2	SS	Samsung	18-22-22-42	1.35	•	•
Gskill	F4-3600C16D-16GTZR	8Gx2	SS	Samsung	16-16-16-36	1.35	•	•
Gskill	F4-3600C18D-16GTZR	8Gx2	SS	Samsung	18-22-22-42	1.35	•	•
Gskill	F4-3600C19D-16GTZRB	8Gx2	SS	Samsung	19-20-20-40	1.35	•	•
Gskill	F4-3600C16D-32GTZNC	16Gx2	DS	Samsung	16-19-19-39	1.35	•	•
Gskill	F4-3600C18D-32GTZN	16Gx2	DS	Samsung	18-22-22-42	1.35	•	•
Gskill	F4-3600C17D-32GTZR	16Gx2	DS	Samsung	17-19-19-39	1.35	•	•
Gskill	F4-3600C19D-32GTRS	16Gx2	DS	Samsung	19-20-20-40	1.35	•	•
Kingston	HX436C17PB3K2/16	8GBx2	SS	Samsung	17-18-18-39	1.35	•	•
Kingston	HX436C17PB3AK2/16	8GBx2	SS	Samsung	17-18-18-39	1.35	•	•
Kingston	H436C17PB3K2/32	16GBx2	DS	Samsung	17-19-19-39	1.35	•	•
ZADAK	ZD4-SHD3600C17-08GAS	8GBx2	SS	Samsung	17-19-19-39	1.35	•	•
TeamGroup	TF1D416G3600HC18EDC01	8GBx2	SS	Samsung	18-20-20-44	1.35	•	•
TeamGroup	TF2D416G3600HC18EDC01	8GBx2	SS	Samsung	18-20-20-44	1.35	•	•
TeamGroup	TF5D416G3600HC18EDC01	8GBx2	SS	Samsung	18-20-20-44	1.35	•	•
TeamGroup	TF6D416G3600HC18EDC01	8GBx2	SS	Samsung	18-20-20-44	1.35	•	•
ADATA	AX4U360038G17-BR80	8GBx2	SS	Samsung	17-18-18-38	1.35	•	•
Geil	GLS416GB3600C16ADC	8GBx2	SS	Samsung	16-18-18-36	1.35	•	•
Geil	GLWS416GB3600C16ADC	8GBx2	SS	Samsung	16-18-18-36	1.35	•	•
Crucial	BLS8G4D36BESBK.8FE	8GBx2	SS	Samsung	16-18-18-36	1.35	•	•
Crucial	BLE2K8G4D36BEEAK	8GBx2	SS	-	16-18-18-38	1.35	•	•

#### DDR4 3733 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Timing	Voltage	DIMM socket support (Optional)	
							1 DIMM	2 DIMM
CORSAIR	CMD16GX4M2B3733C17	8GBx2	SS	Samsung	17-19-19-39	1.35	•	•
CORSAIR	CMD16GX4M2B3733C17R	8GBx2	SS	Samsung	17-19-19-39	1.35	•	•
CORSAIR	CMK16GX4M2B3733C17	8GBx2	SS	Samsung	17-19-19-39	1.35	•	•
APACER	AHU08GGB37CUBK	8GBx2	SS	Samsung	17-19-19-39	1.35	•	•
TeamGroup	TCD48G3733C17ABK	8GBx2	SS	Samsung	18-20-20-39	1.35	•	•
Gskill	F4-3733C17D-16GTZ	8GBx2	SS	Samsung	17-19-19-39	1.35	•	•
Gskill	F4-3733C17D-16GTZA	8GBx2	SS	Samsung	17-17-17-37	1.35	•	•

#### DDR4 3800 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Timing	Voltage	1 DIMM	2 DIMM
Gskill	F4-3800C14D-16GTZN	8GBx2	SS	Samsung	14-16-16-36	1.5	•	•

#### DDR4 3866 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Timing	Voltage	DIMM socket support (Optional)	
							1 DIMM	2 DIMM
CORSAIR	CMD16GX4M2B3866C18	8GBx2	SS	Samsung	18-22-22-40	1.35	•	•
CORSAIR	CMK16GX4M2B3866C18	8GBx2	SS	Samsung	18-22-22-40	1.35	•	•
Gskill	F4-3866C18D-16GTZ	8GBx2	SS	Samsung	18-19-19-39	1.35	•	•
Gskill	F4-3866C18D-16GTZSW	8GBx2	SS	Samsung	18-19-19-39	1.35	•	•
Gskill	F4-3866C18D-16GTZKW	8GBx2	SS	Samsung	18-19-19-39	1.35	•	•
Gskill	F4-3866C18D-16GTZR	8GBx2	SS	Samsung	18-19-19-39	1.35	•	•
Gskill	F4-3866C18D-32GTZ	16GBx2	DS	Samsung	18-18-18-38	1.35	•	•
Gskill	F4-3866C18D-32GTZSW	16GBx2	DS	Samsung	18-18-18-38	1.35	•	•
Gskill	F4-3866C18D-32GTZKW	16GBx2	DS	Samsung	18-18-18-38	1.35	•	•
Gskill	F4-3866C18D-32GTZR	16GBx2	DS	Samsung	18-18-18-38	1.35	•	•
APACER	AHU08GGB38CJU5H(EK.16GA7.GGBK2)	8GBx2	SS	Samsung	18-22-22-42	1.35	•	•

#### DDR4 4000 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Timing	Voltage	1 DIMM	2 DIMM
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CORSAIR	CMD16GX4M2B4000C19	8GBx2	SS	Samsung	19-23-23-45	1.35	•	•
CORSAIR	CMD16GX4M2E4000C19	8GBx2	SS	Samsung	19-23-23-45	1.35	•	•
CORSAIR	CMK16GX4M2B4000C19	8GBx2	SS	Samsung	19-23-23-45	1.35	•	•
CORSAIR	CMK16GX4M2B4000C19R	8GBx2	SS	Samsung	19-23-23-45	1.35	•	•
CORSAIR	CMK16GX4M2E4000C19R	8GBx2	SS	Samsung	19-23-23-45	1.35	•	•
CORSAIR	CMR16GX4M2F4000C19	8GBx2	SS	Samsung	19-23-23-45	1.35	•	•
CORSAIR	CMK16GX4M2K4000C19	8GBx2	SS	Samsung	19-23-23-45	1.35	•	•
CORSAIR	CMW16GX4M2K4000C19	8GBx2	SS	Samsung	19-23-23-45	1.35	•	•
CORSAIR	CMT16GX4M2K4000C19	8GBx2	SS	Samsung	19-23-23-45	1.35	•	•
CORSAIR	CMW16GX4M2Z4000C18(Ver3.31)	8GBx2	SS	Micron	18-22-22-42	1.35	•	•
CORSAIR	CMK16GX4M2K4000C19(Ver3.31)	8GBx2	SS	Micron	19-23-23-45	1.35	•	•
CORSAIR	CMK16GX4M2K4000C19(Ver4.31)	8GBx2	SS	Samsung	19-23-23-45	1.35	•	•
Gskill	F4-4000C17D-16GTZR	8GBx2	SS	Samsung	17-17-17-37	1.35	•	•
Gskill	F4-4000C17D-16GTZRS	8GBx2	SS	Samsung	17-17-17-37	1.35	•	•
Gskill	F4-4000C17D-16GTZRG	8GBx2	SS	Samsung	17-17-17-37	1.35	•	•
Gskill	F4-4000C18D-16GTZ	8GBx2	SS	Samsung	18-19-19-39	1.35	•	•
Gskill	F4-4000C18D-16GTZSW	8GBx2	SS	Samsung	18-19-19-39	1.35	•	•
Gskill	F4-4000C18D-16GTZKW	8GBx2	SS	Samsung	18-19-19-39	1.35	•	•
Gskill	F4-4000C18D-16GTZR	8GBx2	SS	Samsung	18-19-19-39	1.35	•	•
Kingston	HX440C19PB3AK2/16	8GBx2	SS	Samsung	19-21-21-42	1.35	•	•
Kingston	HX440C19PB3K2/16	8GBx2	SS	Samsung	19-21-21-42	1.35	•	•
Crucial	BLE2K8G4D40BEEAK	8GBx2	SS	Samsung	18-19-19-39	1.35	•	•

#### DDR4 4133 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Timing	Voltage	DIMM socket support (Optional)	
							1 DIMM	2 DIMM
CORSAIR	CMK16GX4M2B4133C19	8GBx2	SS	Samsung	19-25-25-45	1.4V	•	•
CORSAIR	CMK16GX4M2B4133C19R	8GBx2	SS	Samsung	19-25-25-45	1.4V	•	•
CORSAIR	CMD16GX4M2B4133C19	8GBx2	SS	Samsung	19-25-25-45	1.4V	•	•
CORSAIR	CMK16GX4M2K4133C19(Ver4.31)	8GBx2	SS	Samsung	19-25-25-45	1.4V	•	•
Gskill	F4-4133C17D-16GTZR	8GBx2	SS	Samsung	17-17-17-37	1.35V	•	•
Gskill	F4-4133C19D-16GTZC	8GBx2	SS	Samsung	19-19-19-39	1.35V	•	•
Gskill	F4-4133C19D-16GTZSWC	8GBx2	SS	Samsung	19-19-19-39	1.35V	•	•
Gskill	F4-4133C19D-16GTZKWC	8GBx2	SS	Samsung	19-19-19-39	1.35V	•	•
Gskill	F4-4133C19D-16GTZR	8GBx2	SS	Samsung	19-19-19-39	1.35V	•	•
TeamGroup	TXOBD48G4133HC18FBK	8GBx2	SS	Samsung	18-18-18-38	1.4V	•	•
Kingston	H441C19PB3K2/16	8GBx2	SS	Samsung	19-23-23-45	1.35V	•	•
ADATA	AX4U413338G19-SR80	8GBx2	SS	Samsung	19-19-19-39	1.4V	•	•
Geil	GLS416GB4133C19DC	8GBx2	SS	Samsung	19-19-19-39	1.4V	•	•
Geil	GLWS416GB4133C19DC	8GBx2	SS	Samsung	19-19-19-39	1.4V	•	•

#### DDR4 4266 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Timing	Voltage	DIMM socket support (Optional)	
							1 DIMM	2 DIMM
CORSAIR	CMK16GX4M2K4266C19	8GBx2	SS	Samsung	19-26-26-46	1.4V	•	•
CORSAIR	CMK16GX4M2K4266C16	8GBx2	SS	Micron	16-22-22-39	1.5V	•	•
CORSAIR	CMK16GX4M2B4266C19	8GBx2	SS	Samsung	19-26-26-46	1.4V	•	•
CORSAIR	CMR16GX4M2E4266C19	8GBx2	SS	Samsung	19-26-26-46	1.4V	•	•
CORSAIR	CMK16GX4M2B4266C19R	8GBx2	SS	Samsung	19-26-26-46	1.4V	•	•
CORSAIR	CMW16GX4M2K4266C19	8GBx2	SS	Samsung	19-26-26-46	1.4V	•	•
CORSAIR	CMT16GX4M2K4266C19	8GBx2	SS	Samsung	19-26-26-46	1.4V	•	•
Gskill	F4-4266C19D-16GTZA	8GBx2	SS	Samsung	19-19-19-39	1.4V	•	•
Gskill	F4-4266C19D-16GTZSW	8GBx2	SS	Samsung	19-19-19-39	1.4V	•	•
Gskill	F4-4266C19D-16GTZKW	8GBx2	SS	Samsung	19-19-19-39	1.4V	•	•
Gskill	F4-4266C19D-16GTZR	8GBx2	SS	Samsung	19-19-19-39	1.4V	•	•
Gskill	F4-4266C19D-16GTZRS	8GBx2	SS	Samsung	19-19-19-39	1.4V	•	•
Gskill	F4-4266C19D-16GTZRG	8GBx2	SS	Samsung	19-19-19-39	1.4V	•	•
kingston	HX442C19PB3K2/16	8GBx2	SS	Samsung	19-26-26-45	1.4V	•	•

#### DDR4 4333 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Timing	Voltage	DIMM socket support (Optional)	
							1 DIMM	2 DIMM
CORSAIR	CMK16GX4M2K4333C19	8GBx2	SS	Samsung	19-26-26-46	1.4V	•	•

#### DDR4 4400 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Timing	Voltage	DIMM socket support (Optional)	
							1 DIMM	2 DIMM
CORSAIR	CMK16GX4M2F4400C19	8GBx2	SS	Samsung	1.4	•	•	
CORSAIR	CMK16GX4M2K4400C19	8GBx2	SS	Samsung	1.4	•	•	
Gskill	F4-4400C19D-16GTZSW	8GBx2	SS	Samsung	1.4	•	•	
Gskill	F4-4400C19D-16GTZK	8GBx2	SS	Samsung	1.4	•	•	
Gskill	F4-4400C19D-16GTZR	8GBx2	SS	Samsung	1.4	•	•	
Gskill	F4-4400C19D-16GTZK	8GBx2	SS	Samsung	1.4	•	•	
Gskill	F4-4400C18D-16GTZR	8GBx2	SS	Samsung	1.4	•	•	
Gskill	F4-4400C18D-16GTZRS	8GBx2	SS	Samsung	1.4	•	•	
Gskill	F4-4400C18D-16GTZRG	8GBx2	SS	Samsung	1.4	•	•	
Patriot	PVS416G4400C9K_PE000599	8GBx2	SS	Samsung	1.45	•	•	

#### DDR4 4500 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Timing	Voltage	DIMM socket support (Optional)	
							1 DIMM	2 DIMM
Gskill	F4-4500C19D-16GTZK	8GBx2	SS	Samsung	19-23-23-43	1.5	•	•
Gskill	F4-4500C19D-16GTZKKE	8GBx2	SS	Samsung	19-19-19-39	1.45	•	•
Gskill	F4-4500C19D-16GTZSWE	8GBx2	SS	Samsung	19-19-19-39	1.45	•	•
Gskill	F4-4500C19D-16GTZK	8GBx2	SS	Samsung	19-19-19-39	1.45	•	•
Galax	HOF4KXL1BST4500P19MG162	8GBx2	SS	Samsung	19-19-19-39	1.45	•	•
TeamGroup	TXKD416G4500HC18EDC01	8GBx2	SS	Samsung	18-20-20-44	1.45	•	•
TeamGroup	TXD416G4500HC18EDC01	8GBx2	SS	Samsung	18-20-20-44	1.45	•	•
TeamGroup	TF6D416G4500HC18EDC01	8GBx2	SS	Samsung	18-20-20-44	1.45	•	•
TeamGroup	TF5D416G4500HC18EDC01	8GBx2	SS	Samsung	18-20-20-44	1.45	•	•

#### DDR4 4600 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Timing	Voltage	DIMM socket support (Optional)	
							1 DIMM	2 DIMM
<b>Gskill</b>	F4-4600C19D-16GTZSWC	8GBx2	SS	Samsung	19-23-23-43	1.5v	•	•
<b>Gskill</b>	F4-4600C19D-16GTZSKKC	8GBx2	SS	Samsung	19-23-23-43	1.5	•	•
<b>Gskill</b>	F4-4600C18D-16GTRG	8GBx2	SS	Samsung	18-22-22-42	1.45	•	•
<b>Gskill</b>	F4-4600C18D-16GTRS	8GBx2	SS	Samsung	18-22-22-42	1.45	•	•
<b>kingston</b>	HX446C19PB3K2/16	8GBx2	SS	Samsung	19-26-26-45	1.5	•	•

#### DDR4 4800 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Timing	Voltage	DIMM socket support (Optional)	
							1 DIMM	2 DIMM
<b>CORSAIR</b>	CMK16GX4M2K4800C18	8GBx2	SS	Micron	18-24-24-46	1.5v	•	•
<b>Gskill</b>	F4-4800C18D-16GRS	8GBx2	SS	Samsung	18-22-22-42	1.5v	•	•
<b>Gskill</b>	F4-4800C18D-16GRG	8GBx2	SS	Samsung	18-22-22-42	1.5v	•	•
<b>Teamgroup</b>	TXKD416G4800HC18IDC01	8GBx2	SS	Samsung	18-21-21-41	1.5v	•	•

#### DCRAM Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Timing	Voltage	DIMM socket support (Optional)	
							1 DIMM	2 DIMM
<b>Gskill</b>	F4-3000C14D-64GTZDC (3000Mhz)	32GBx2	DS	Samsung	14-14-14-34	1.35	•	•
<b>Gskill</b>	F4-3200C14D-64GTZDC (3200Mhz)	32GBx2	DS	Samsung	14-14-14-34	1.35	•	•
<b>Gskill</b>	F4-3200C14D-64GTZDCB (3200Mhz)	32GBx2	DS	Samsung	14-15-15-35	1.35	•	•
<b>ZADAK</b>	ZD4-SHC2666C16-64GDSD (2666Mhz)	32GBx2	DS	Samsung	16-16-16-36	1.2	•	•
<b>ZADAK</b>	ZD4-SHC3000C16-64GDSD (3000Mhz)	32GBx2	DS	Samsung	16-18-18-38	1.35	•	•
<b>ZADAK</b>	ZD4-SHC3200C14-64GDSD (3200Mhz)	32GBx2	DS	Samsung	14-16-16-36	1.35	•	•
<b>ZADAK</b>	ZD4-SHC3600C17-64GDSD (3600Mhz)	32GBx2	DS	Samsung	17-19-19-39	1.35	•	•

#### 2-DIMM

- **1 DIMM:** Supports one module inserted in any slot as single-channel memory configuration
- **2 DIMM:** Supports one pair of modules inserted into all slots that operates in a dual-channel memory configuration

- Please ensure all memory modules are from a single validated kit. Do not combine DIMMs from multiple kits—even if they are the same make and model. Mixing and matching DIMMs can result in failure to boot and compatibility cannot be guaranteed.
- At default UEFI settings, the memory operating frequency depends on the Serial Presence Detect (SPD) profile the kit is programmed with, which is the standard way of accessing information from a module. To set the rated speed of the kit, please select XMP or apply manual settings.
- The stability and compatibility of XMP memory kits that operate beyond the JEDEC standard is not guaranteed because it can be affected by the capabilities of the CPU's integrated memory controller, installed devices, and the operating frequency of associated bus domains.