

## PRIME X299-DELUXE II Memory QVL

-Do not combine DIMMs from multiple kits—even ones of the same make and model. Mixing and matching DIMMs can result in failure to boot.

- Purchasing single DIMMs is not recommended because compatibility cannot be guaranteed.

For the best results, please ensure all memory modules are of the same version or have the same date code (D/C) from the same vendor.

Check with the memory vendor to get the correct memory modules.

-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.

-The stability and compatibility of memory modules with XMP profiles that operate beyond the JEDEC memory standard are not guaranteed.

The stability and compatibility of these memory modules depend on the CPU's capabilities and other installed devices.

### DDR4 2133 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/ DS	Chip Brand	Chip NO.	Timing	Voltage	DIMM socket support		
								2 DIMM	4 DIMM	8 DIMM
<b>Apacer</b>	78.B1GM3.AF00B	16GB (4x 4GB )	SS	SK Hynix	H5AN4G8NMFR TFC	15-15-15-36	1.2	•	•	
<b>Apacer</b>	78.C1GM3.AF10B	32GB (4x 8GB )	DS	SK Hynix	H5AN4G8NMFR TFC	15-15-15-36	1.2	•	•	
<b>Apacer</b>	AHU08GGB13CGT7G (EK.08G2R.KDC)	8GB	DS	Apacer	-	15-15-15-36	1.2	•		
<b>Apacer</b>	AHU08GGB13CGU7G (EK.08G2R.GDC)	8GB	SS	Apacer	-	15-15-15-36	1.2	•		
<b>Apacer</b>	AU08GGB13CDYBGC (EL.08G2R.GDM)	8GB		Apacer	-	15-15-15-36	1.2	•		
<b>CENTURY MICRO INC</b>	CD8G-D4U2133	8GB	DS	SK Hynix	H5AN4G8NMFR TFC	15-15-15-36	-	•	•	
<b>CENTURY MICRO INC</b>	CK8GX4-D4U2133	32GB ( 4x 8GB )	DS	SK hynix	H5AN4G8NMFR TFC	15-15-15-35	1.2	•	•	
<b>CORSAIR</b>	CMD16GX4M4B2133C10(Ver3.2 0)(XMP)	16GB ( 4x 4GB )	SS	-	-	10-12-12-31	1.35	•	•	
<b>CORSAIR</b>	CMD16GX4M4B2133C10(Ver3.2 0)(XMP)	16GB ( 4x 4GB )	SS	-	-	10-12-12-31	1.35	•		
<b>CORSAIR</b>	CMK16GX4M4A2133C13(Ver4.2 3)(XMP)	16GB ( 4x 4GB )	SS	-	-	13-15-15-28	1.2	•	•	
<b>CORSAIR</b>	CMK32GX4M2A2133C13(Ver4.3 1)(XMP)	32GB ( 2x 16GB )	DS	-	-	13-15-15-28	1.2	•		
<b>CORSAIR</b>	CMK32GX4M4A2133C13(Ver4.2 3)(XMP)	32GB ( 4x 8GB )	DS	-	-	13-15-15-28	1.2	•	•	
<b>CORSAIR</b>	CMK32GX4M4A2133C15(Ver3.2 0)	32GB ( 4x 8GB )	DS	-	-	15-15-15-36	1.2	•	•	

<b>CORSAIR</b>	CMK32GX4M4A2133C15(Ver5.29)	32GB ( 4x 8GB )	DS	-	-	15-15-15-36	1.2	●	●
<b>CORSAIR</b>	CMK64GX4M8A2133C13(Ver3.20)(XMP)	64GB ( 8x 8GB )	DS	-	-	13-15-15-28	1.2	●	●
<b>CORSAIR</b>	CMV16GX4M1A2133C15	16GB	DS	-	-	15-15-15-36	1.2	●	●
<b>CORSAIR</b>	CMV16GX4M1A2133C15	16GB	DS	-	-	15-15-15-36	-	●	●
<b>CORSAIR</b>	CMV4GX4M1A2133C15	4GB	SS	-	-	15-15-15-36	1.2	●	● ●
<b>CORSAIR</b>	CMV8GX4M1A2133C15	8GB	DS	-	-	15-15-15-36	1.2	●	●
<b>crucial</b>	CT16G4DFD8213.16FB1	16GB	DS	Micron	D9TBH	15-15-15-36	1.2	●	● ●
<b>crucial</b>	CT4G4DFS8213.8FA2	4GB	SS	Micron	D9RGQ	15-15-15-36	1.2	●	●
<b>crucial</b>	CT4G4DFS8213.8FB1	4GB	SS	-	-	15-15-15-36	1.2	●	● ●
<b>crucial</b>	CT8G4DFS8213.8FB1	8GB	SS	-	-	15-15-15-36	1.2	●	●
<b>Foxteonn</b>	FEU4GN51208JC2133F	4GB	SS	Nanya	NT5AD512M8B1-FM	15-15-15-36	-	●	●
<b>G.SKILL</b>	F4-2133C15Q-16GRR	16GB ( 4x 4GB )	SS	-	-	15-15-15-35	1.2	●	●
<b>G.SKILL</b>	F4-2133C15Q-16GVR	16GB ( 4x 4GB )	SS	-	-	15-15-15-35	1.2	●	●
<b>G.SKILL</b>	F4-2133C15Q-16GVB	16GB ( 4x 4GB )	SS	-	-	15-15-15-35	1.2	●	●
<b>G.SKILL</b>	F4-2133C15Q-16GVG	16GB ( 4x 4GB )	SS	-	-	15-15-15-35	1.2	●	●
<b>G.SKILL</b>	F4-2133C15Q-16GVK	16GB ( 4x 4GB )	SS	-	-	15-15-15-35	1.2	●	●
<b>G.SKILL</b>	F4-2133C15Q-16GVS	16GB ( 4x 4GB )	SS	-	-	15-15-15-35	1.2	●	●
<b>G.SKILL</b>	F4-2133C15Q-16GRK	16GB ( 4x 4GB )	SS	-	-	15-15-15-35	1.2	●	●
<b>G.SKILL</b>	F4-2133C15Q-16GRB	16GB ( 4x 4GB )	SS	-	-	15-15-15-35	1.2	●	●
<b>G.SKILL</b>	F4-2133C15Q2-128GVK	128GB ( 8x 16GB )	DS	-	-	15-15-15-35	1.2	●	●
<b>G.SKILL</b>	F4-2133C15Q2-128GVR	128GB ( 8x 16GB )	DS	-	-	15-15-15-35	1.2	●	●
<b>G.SKILL</b>	F4-2133C15Q2-64GRR	64GB ( 8x 8GB )	DS	-	-	15-15-15-35	1.2	●	● ●
<b>G.SKILL</b>	F4-2133C15Q2-64GRB	64GB ( 8x 8GB )	DS	-	-	15-15-15-35	1.2	●	● ●
<b>G.SKILL</b>	F4-2133C15Q-32GRR	32GB ( 4x 8GB )	DS	-	-	15-15-15-35	-	●	
<b>G.SKILL</b>	F4-2133C15Q-32GVR	32GB ( 4x 8GB )	DS	-	-	15-15-15-35	1.2	●	
<b>G.SKILL</b>	F4-2133C15Q-32GVB	32GB ( 4x 8GB )	DS	-	-	15-15-15-35	1.2	●	
<b>G.SKILL</b>	F4-2133C15Q-32GVG	32GB ( 4x 8GB )	DS	-	-	15-15-15-35	1.2	●	
<b>G.SKILL</b>	F4-2133C15Q-32GVK	32GB ( 4x 8GB )	DS	-	-	15-15-15-35	1.2	●	
<b>G.SKILL</b>	F4-2133C15Q-32GVS	32GB ( 4x 8GB )	DS	-	-	15-15-15-35	1.2	●	
<b>G.SKILL</b>	F4-2133C15Q-32GRK	32GB ( 4x 8GB )	DS	-	-	15-15-15-35	1.2	●	
<b>G.SKILL</b>	F4-2133C15Q-32GRB	32GB ( 4x 8GB )	DS	-	-	15-15-15-35	1.2	●	
<b>GeIL</b>	GPR416GB2133C15QC	16GB ( 4x 4GB )	SS	-	-	15-15-15-36	1.2	●	
<b>GeIL</b>	GPR432GB2133C15QC	32GB ( 4x 8GB )	SS	-	-	15-15-15-36	1.2	●	
<b>Hyper X</b>	HX421C13SB/4(XMP)	4GB	SS	-	-	13-13-13-36	1.2	●	●
<b>Hyper X</b>	HX421C13SB/8(XMP)	8GB	DS	-	-	13-13-13-36	1.2	●	●
<b>Hyper X</b>	HX421C13SBK2/16(XMP)	16GB ( 2x 8GB )	DS	-	-	13-13-13-36	1.2	●	
<b>Hyper X</b>	HX421C13SBK2/8(XMP)	8GB ( 2x 4GB )	SS	-	-	13-13-13-36	1.2	●	
<b>Hyper X</b>	HX421C13SBK4/16(XMP)	16GB ( 4x 4GB )	SS	-	-	13-13-13-36	1.2	●	●
<b>Hyper X</b>	HX421C13SBK4/32(XMP)	32GB ( 4x 8GB )	DS	-	-	13-13-13-36	1.2	●	●

<b>Hyper X</b>	HX421C14FB/4	4GB	SS	-	-	14-14-14-35	1.2	●	●
<b>Hyper X</b>	HX421C14FB/8	8GB	DS	-	-	14-14-14-35	1.2	●	●
<b>Hyper X</b>	HX421C14FB2K4/32(XMP)	32GB ( 4x 8GB )	SS	-	-	14-14-14-35	1.2	●	●
<b>Hyper X</b>	HX421C14FBK2/16	16GB ( 2x 8GB )	DS	-	-	14-14-14-35	1.2	●	●
<b>Hyper X</b>	HX421C14FBK2/8	8GB ( 2x 4GB )	SS	-	-	14-14-14-35	1.2	●	●
<b>Hyper X</b>	HX421C14FBK4/16	16GB ( 4x 4GB )	SS	-	-	14-14-14-35	1.2	●	●
<b>Hyper X</b>	HX421C14FBK4/32	32GB ( 4x 8GB )	DS	-	-	14-14-14-35	1.2	●	●
<b>Hyper X</b>	HX421C14FBK4/64	64GB ( 4x 16GB )	DS	-	-	15-15-15-35	1.2	●	●
<b>Hyper X</b>	HX421C14FBK8/64	64GB ( 8x 8GB )	DS	-	-	14-14-14-35	1.2	●	●
<b>Kingston</b>	KVR21N15D8/16	16GB	DS	Micron	D9TBH	15-15-15-36	1.2	●	● ●
<b>Kingston</b>	KVR21N15D8/8	8GB	DS	SK Hynix	H5AN4G8NAFR	15-15-15-36	1.2	●	●
<b>Kingston</b>	KVR21N15D8/8	8GB	DS	SK hynix	H5AN4G8NMFR TFC	15-15-15-37	1.2	●	●
<b>Kingston</b>	KVR21N15S8/4	4GB	SS	SK Hynix	H5AN4G8NAFR	15-15-15-36	1.2	●	●
<b>Kingston</b>	KVR21N15S8/4	4GB	SS	SK Hynix	H5AN4G8NAFR TFC	15-15-15-36	1.2	●	●
<b>Kingston</b>	KVR21N15S8/4	4GB	SS	SK Hynix	H5AN4G8NMFR TFC	15-15-15-37	1.2	●	●
<b>Klevv</b>	IM44GU48N21-FFFHAB(XMP)	4GB	SS	-	-	15-15-15-35	1.2	●	●
<b>Klevv</b>	KM4B4GX1N-2133-15-15-15-35-0	4GB	SS	-	-	15-15-15-35	1.2	●	●
<b>Klevv</b>	KM4B4GX2N-2133-15-15-15-35-0	4GB	SS	-	-	15-15-15-35	1.2	●	●
<b>Klevv</b>	KM4B4GX4N-2133-15-15-15-35-0	4GB	SS	-	-	15-15-15-35	1.2	●	●
<b>Klevv</b>	IM48GU88N21-FFFHMB(XMP)	8GB	SS	-	-	15-15-15-35	1.2	●	●
<b>Klevv</b>	KM4B8GX1N-2133-15-15-15-35-0	8GB	SS	-	-	15-15-15-35	1.2	●	●
<b>Klevv</b>	KM4B8GX2N-2133-15-15-15-35-0	8GB	SS	-	-	15-15-15-35	1.2	●	●
<b>Klevv</b>	KM4B8GX4N-2133-15-15-15-35-0	8GB	SS	-	-	15-15-15-35	1.2	●	●
<b>Klevv</b>	IM4AGU88N21-FFFHMB(XMP)	16GB	DS	-	-	15-15-15-35	1.2	●	●
<b>Klevv</b>	KM4B16X1N-2133-15-15-15-35-0	16GB	DS	-	-	15-15-15-35	1.2	●	●
<b>Klevv</b>	KM4B16X2N-2133-15-15-15-35-0	16GB	DS	-	-	15-15-15-35	1.2	●	●
<b>Klevv</b>	KM4B16X4N-2133-15-15-15-35-0	16GB	DS	-	-	15-15-15-35	1.2	●	●
<b>Klevv</b>	KM4C4GX4N-2133-15-15-15-35-0	4GB	SS	-	-	15-15-15-35	1.2	●	●
<b>Klevv</b>	KM4C4GX4N-2133-15-15-15-35-1	16GB ( 4x 4GB )	SS	-	-	15-15-15-35	1.2	●	●

<b>Klevv</b>	KM4C8GX4N-2133-15-15-15-35-0	8GB	DS	-	-	15-15-15-35	1.2	•	•	•
<b>Klevv</b>	KM4C8GX4N-2133-15-15-15-35-1	32GB ( 4x 8GB )	DS	-	-	15-15-15-35	1.2	•	•	
<b>Micron</b>	MTA16ATF2G64AZ-2G1B1	16GB	DS	Micron	D9TBH	15-15-15-36	1.2	•	•	•
<b>Micron</b>	MTA8ATF1G64AZ-2G1B1	8GB	SS	-	-	15-15-15-36	1.2	•	•	
<b>panram</b>	W4U2133PS-8G	8GB	SS	panram	DTCCH872HA2	16-16-16-36	-	•	•	•
<b>SanMax</b>	SMD-4G28HP-21P	4GB	SS	SK Hynix	H5AN4G8NMFR TFC	15-15-15-37	-	•	•	
<b>SanMax</b>	SMD-8G28HP-21P	8GB	DS	SK Hynix	H5AN4G8NMFR TFC	15-15-15-37	-	•	•	•
<b>Silicon Power</b>	SP004GBLFU213N01	4GB	SS	Samsung	K4A4G085WD	15-15-15-37	-	•	•	
<b>Silicon Power</b>	SP008GBLFU213N01	8GB	DS	Samsung	K4A4G085WD	15-15-15-37	-	•	•	•
<b>SK Hynix</b>	HMA41GU7AFR8N-TF	8GB	DS	SK Hynix	H5AN4G8NAFR TFC	15-15-15-36	-	•	•	
<b>SK Hynix</b>	HMA451U7AFR8N-TF	4GB	SS	SK Hynix	H5AN4G8NAFR	15-15-15-36	-	•	•	
<b>SK Hynix</b>	HMA82GU6MFR8N-TF	16GB	DS	SK Hynix	H5AN8G8NMFR TFC	15-15-15-36	-	•	•	•
<b>SK Hynix</b>	HMA82GU7MFR8N-TF	16GB	DS	SK Hynix	H5AN8G8NMFR	15-15-15-36	-	•	•	
<b>SUPER TALENT</b>	FBU2B008GM	8GB	DS	Micron	D9RGQ	15-15-15-36	1.2	•	•	•
<b>Team</b>	TED416G2133C15BK	16GB	DS	Team	T4D10248MT-24	15-15-15-36	1.2	•	•	
<b>Team</b>	TED464G2133C15QC01	64GB(16GB*4)	DS	Team	T4D10248MT-24	15-15-15-36	1.2	•	•	
<b>Team</b>	TPRD464G2133HC15QC01	64GB(16GB*4)	DS	Team	T4D10248MT-24	15-15-15-36	1.2	•	•	
<b>Team</b>	TPD464G2133HC15QC01	64GB(16GB*4)	DS	Team	T4D10248MT-24	15-15-15-36	1.2	•	•	
<b>Team</b>	TED432G2133C15DC01	32GB(16GB*2)	DS	Team	T4D10248MT-24	15-15-15-36	1.2	•	•	
<b>Team</b>	TPRD432G2133HC15DC01	32GB(16GB*2)	DS	Team	T4D10248MT-24	15-15-15-36	1.2	•	•	
<b>Team</b>	TPD432G2133HC15DC01	32GB(16GB*2)	DS	Team	T4D10248MT-24	15-15-15-36	1.2	•	•	
<b>Team</b>	TED416G2133C1501	16GB	DS	Team	T4D10248MT-24	15-15-15-36	1.2	•	•	
<b>Team</b>	TPRD416G2133HC1501	16GB	DS	Team	T4D10248MT-24	15-15-15-36	1.2	•	•	
<b>Team</b>	TPD416G2133HC1501	16GB	DS	Team	T4D10248MT-24	15-15-15-36	1.2	•	•	
<b>Team</b>	TED44GM2133C15ABK	4GB	SS	SK Hynix	H5AN4G8NMFR TFC	15-15-15-36	1.2	•	•	
<b>Team</b>	TED48GM2133C15BK	8GB	DS	SK hynix	H5AN4G8NMFR TFC	15-15-15-36	1.2	•	•	
<b>Team</b>	TED432G2133C15QC01	32GB(8GB*4)	DS	SK hynix	H5AN4G8NMFR TFC	15-15-15-36	1.2	•	•	
<b>Team</b>	TPRD432G2133HC15QC01	32GB(8GB*4)	DS	SK hynix	H5AN4G8NMFR TFC	15-15-15-36	1.2	•	•	
<b>Team</b>	TPD432G2133HC15QC01	32GB(8GB*4)	DS	SK hynix	H5AN4G8NMFR TFC	15-15-15-36	1.2	•	•	
<b>Team</b>	TED416G2133C15DC01	16GB(8GB*2)	DS	SK hynix	H5AN4G8NMFR TFC	15-15-15-36	1.2	•	•	
<b>Team</b>	TPRD416G2133HC15DC01	16GB(8GB*2)	DS	SK hynix	H5AN4G8NMFR TFC	15-15-15-36	1.2	•	•	

<b>Team</b>	TPD416G2133HC15DC01	16GB(8GB*2)	DS	SK hynix	H5AN4G8NMFR TFC	15-15-15-36	1.2	●	●	
<b>Team</b>	TED48G2133C1501	8GB	DS	SK hynix	H5AN4G8NMFR TFC	15-15-15-36	1.2	●	●	
<b>Team</b>	TPRD48G2133HC1501	8GB	DS	SK hynix	H5AN4G8NMFR TFC	15-15-15-36	1.2	●	●	
<b>Team</b>	TPD48G2133HC1501	8GB	DS	SK hynix	H5AN4G8NMFR TFC	15-15-15-36	1.2	●	●	
<b>UMAX</b>	84G44G93MC-21OMCALGF15	4GB	SS	Micron	D9RGQ	15-15-15-36	-	●	●	●
<b>UMAX</b>	84G48G93MC-21OMCGNGF15	8GB	DS	Micron	D9RGQ	15-15-15-36	-	●	●	
<b>V-color</b>	TC48G21S815-IMS	8GB	SS	-	-	15-15-15-36	1.2	●	●	

### DDR4 2400 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/ DS	Chip Brand	Chip NO.	Timing	Volta ge	DIMM socket support		
								2 DIMM	4 DIMM	8 DIMM
<b>ADATA</b>	AD4U2400W4G17-B	4GB	SS	SK Hynix	H5AN4G8NAFR TFC	15-15-15-35	1.2	●	●	
<b>ADATA</b>	AD4U2400W8G17-B	8GB	DS	SK Hynix	H5AN4G8NAFR TFC	15-15-15-35	1.2	●	●	
<b>ADATA</b>	AX4U2400316G16-DRD(XMP)	16GB	DS	-	-	16-16-16-39	1.2	●	●	
<b>ADATA</b>	AX4U2400316G16-SBF(XMP)	16GB	DS	-	-	16-16-16-36	1.2	●	●	
<b>ADATA</b>	AX4U240038G16-SBF(XMP)	8GB	SS	-	-	16-16-16-39	1.2	●	●	
<b>ADATA</b>	AX4U2400W8G16-BRZ(XMP)	8GB	DS	-	-	16-16-16-39	1.2	●	●	
<b>ADATA</b>	AX4U2400W8G16-DRD(XMP)	8GB	DS	-	-	16-16-16-39	1.2	●	●	
<b>Apacer</b>	78.B1GMS.4050B	16GB (4x 4GB )	SS	Samsung	K4A4G085WD	17-17-17-39	-	●	●	
<b>Apacer</b>	78.C1GMS.4010B	32GB (4x 8GB )	DS	Samsung	K4A4G085WD	17-17-17-39	-	●	●	
<b>Apacer</b>	EL.08G2T.GFM	8GB	SS	Apacer	AM6F6308MHHS B2	17-17-17-39	-	●	●	
<b>Apacer</b>	AU08GGB24CEYBGC (EL.08G2T.GFM)	8GB	SS	Apacer	AM6F6308MHHS B2	17-17-17-39	1.2	●	●	
<b>Apacer</b>	AHU08GGB24CDT7G (EK.08G2T.KEC)	8GB	DS	Apacer	-	16-16-16-36	1.2	●	●	
<b>Apacer</b>	AHU08GGB24CDU7G (EK.08G2T.GEC)	8GB	SS	Apacer	-	16-16-16-36	1.2	●	●	
<b>Apacer</b>	AHU08GGB24CDU6H (EK.16GAT.GEAK2)	16GB (2x 8GB )	SS	Apacer	-	16-16-16-36	1.2	●	●	
<b>Apacer</b>	AHU08GGB24CDU5H (EK.16GAT.GEBK2)	16GB (2x 8GB )	SS	Apacer	-	16-16-16-36	1.2	●	●	
<b>CORSAIR</b>	CMD16GX4M4A2400C14(Ver4.2 3)(XMP)	16GB ( 4x 4GB )	SS	-	-	14-16-16-31	1.2	●	●	
<b>CORSAIR</b>	CMD32GX4M4A2400C14(Ver4.2 3)(XMP)	32GB ( 4x 8GB )	DS	-	-	14-16-16-31	1.2	●	●	
<b>CORSAIR</b>	CMK128GX4M8A2400C14(Ver5. 30)(XMP)	128GB ( 8x 16GB )	DS	-	-	14-16-16-31	1.2	●	●	

<b>CORSAIR</b>	CMK16GX4M2A2400C16(Ver3.3 1)(XMP)	16GB ( 2x 8GB )	DS	-	-	16-16-16-39	1.2	●	
<b>CORSAIR</b>	CMK16GX4M2Z2400C16(Ver3.3 1)	16GB ( 2x 8GB )	SS	-	-	16-16-16-39	1.2	●	
<b>CORSAIR</b>	CMK16GX4M4A2400C14(Ver4.2 3)(XMP)	16GB ( 4x 4GB )	SS	-	-	14-16-16-31	1.2	●	●
<b>CORSAIR</b>	CMK32GX4M4A2400C14(Ver4.2 3)(XMP)	32GB ( 4x 8GB )	DS	-	-	14-16-16-31	1.2	●	●
<b>CORSAIR</b>	CMK32GX4M4A2400C16(Ver3.3 1)(XMP)	32GB ( 4x 8GB )	SS	-	-	16-16-16-39	1.2	●	●
<b>CORSAIR</b>	CMK64GX4M4A2400C14(Ver3.3 1)(XMP)	64GB ( 4x 16GB )	DS	-	-	14-16-16-31	1.2	●	●
<b>CORSAIR</b>	CMK64GX4M4A2400C14(Ver4.3 1)(XMP)	64GB ( 4x 16GB )	DS	-	-	14-16-16-31	1.2	●	●
<b>crucial</b>	BLS16G4D240FSB.16FBD(XMP )	16GB	DS	-	-	16-16-16-39	1.2	●	●
<b>crucial</b>	BLS4G4D240FSB.8FBD(XMP)	4GB	SS	-	-	16-16-16-39	1.2	●	●
<b>crucial</b>	BLS8G4D240FSBK.8FBD(XMP)	8GB	SS	-	-	16-16-16-39	1.2	●	●
<b>crucial</b>	CT16G4DFD824A.16FB1	16GB	DS	Micron	D9TBH	17-17-17-39	1.2	●	●
<b>crucial</b>	CT16G4DFD824A.C16FDR1	16GB	DS	Micron	C9BGV	17-17-17-39	1.2	●	●
<b>G.SKILL</b>	F4-2400C14Q2-128GRK(XMP)	128GB ( 8x 16GB )	DS	-	-	14-14-14-34	1.2	●	●
<b>G.SKILL</b>	F4-2400C15Q-16GRR(XMP)	16GB ( 4x 4GB )	SS	-	-	15-15-15-35	1.2	●	●
<b>G.SKILL</b>	F4-2400C15Q-16GVR	16GB ( 4x 4GB )	SS	-	-	15-15-15-35	1.2	●	●
<b>G.SKILL</b>	F4-2400C15Q-16GVB	16GB ( 4x 4GB )	SS	-	-	15-15-15-35	1.2	●	●
<b>G.SKILL</b>	F4-2400C15Q-16GVG	16GB ( 4x 4GB )	SS	-	-	15-15-15-35	1.2	●	●
<b>G.SKILL</b>	F4-2400C15Q-16GVK	16GB ( 4x 4GB )	SS	-	-	15-15-15-35	1.2	●	●
<b>G.SKILL</b>	F4-2400C15Q-16GVS	16GB ( 4x 4GB )	SS	-	-	15-15-15-35	1.2	●	●
<b>G.SKILL</b>	F4-2400C15Q-16GRK	16GB ( 4x 4GB )	SS	-	-	15-15-15-35	1.2	●	●
<b>G.SKILL</b>	F4-2400C15Q-16GRB	16GB ( 4x 4GB )	SS	-	-	15-15-15-35	1.2	●	●
<b>G.SKILL</b>	F4-2400C15Q2-128GRK(XMP)	128GB ( 8x 16GB )	DS	-	-	15-15-15-35	1.2	●	● ●
<b>G.SKILL</b>	F4-2400C15Q2-128GVK(XMP)	128GB ( 8x 16GB )	DS	-	-	15-15-15-35	1.2	●	● ●
<b>G.SKILL</b>	F4-2400C15Q2-128GVR	128GB ( 8x 16GB )	DS	-	-	15-15-15-35	1.2	●	● ●
<b>G.SKILL</b>	F4-2400C15Q2-64GRK(XMP)	64GB ( 8x 8GB )	DS	-	-	15-15-15-35	1.2	●	● ●
<b>G.SKILL</b>	F4-2400C15Q-32GRR(XMP)	32GB ( 4x 8GB )	DS	-	-	15-15-15-35	1.2	●	●
<b>G.SKILL</b>	F4-2400C15Q-32GVR	32GB ( 4x 8GB )	DS	-	-	15-15-15-35	1.2	●	●
<b>G.SKILL</b>	F4-2400C15Q-32GVB	32GB ( 4x 8GB )	DS	-	-	15-15-15-35	1.2	●	●
<b>G.SKILL</b>	F4-2400C15Q-32GVG	32GB ( 4x 8GB )	DS	-	-	15-15-15-35	1.2	●	●
<b>G.SKILL</b>	F4-2400C15Q-32GVK	32GB ( 4x 8GB )	DS	-	-	15-15-15-35	1.2	●	●
<b>G.SKILL</b>	F4-2400C15Q-32GVS	32GB ( 4x 8GB )	DS	-	-	15-15-15-35	1.2	●	●
<b>G.SKILL</b>	F4-2400C15Q-32GRK	32GB ( 4x 8GB )	DS	-	-	15-15-15-35	1.2	●	●

<b>G.SKILL</b>	F4-2400C15Q-32GRB	32GB ( 4x 8GB )	DS			15-15-15-35	1.2	●	●
<b>Gell</b>	GFR416GB2400C16S(XMP)	16GB	SS	-	-	16-16-16-36	1.2	●	
<b>Gell</b>	GFR432GB2400C16D(XMP)	16GB	SS	-	-	16-16-16-36	1.2	●	●
<b>Gell</b>	GLR464GB2400C14QC(XMP)	64GB ( 4x 16GB )	DS	-	-	14-14-14-35	1.2	●	●
<b>Gell</b>	GPR416GB2400C15QC(XMP)	16GB ( 4x 4GB )	SS	-	-	15-15-15-35	1.2	●	●
<b>Gell</b>	GPR432GB2400C15QC(XMP)	32GB ( 4x 8GB )	DS	-	-	15-15-15-35	1.2	●	●
<b>Gell</b>	GPR432GB2400C16QC(XMP)	32GB ( 4x 8GB )	SS	-	-	16-16-16-36	1.2	●	●
<b>Hyper X</b>	HX424C12PB2K4/16	16GB ( 4x 4GB )	SS	-	-	12-13-13-35	1.2	●	●
<b>Hyper X</b>	HX424C12SB2/4(XMP)	4GB	SS	-	-	12-14-14-35	1.35	●	●
<b>Hyper X</b>	HX424C12SB2/8(XMP)	8GB	DS	-	-	12-14-14-35	1.35	●	●
<b>Hyper X</b>	HX424C12SB2K2/16(XMP)	16GB ( 2x 8GB )	DS	-	-	12-14-14-35	1.35	●	
<b>Hyper X</b>	HX424C12SB2K2/16(XMP)	16GB ( 2x 8GB )	DS	Nanya	NT5AD512M8B1 -GN	12-14-14-35	1.35	●	
<b>Hyper X</b>	HX424C12SB2K4/16(XMP)	16GB ( 4x 4GB )	SS	-	-	12-14-14-35	1.35	●	●
<b>Hyper X</b>	HX424C12SB2K4/32(XMP)	32GB ( 4x 8GB )	DS	-	-	12-14-14-35	1.35	●	●
<b>Hyper X</b>	HX424C12SB2K4/32(XMP)	32GB ( 4x 8GB )	DS	Nanya	NT5AD512M8B1 -GN	12-14-14-35	1.35	●	●
<b>Hyper X</b>	HX424C15B2K4/32(XMP)	32GB ( 4x 8GB )	SS	-	-	15-15-15-35	1.2	●	●
<b>Hyper X</b>	HX424C15FB/4	4GB	SS	-	-	15-15-5-35	1.2	●	●
<b>Hyper X</b>	HX424C15FB/8(XMP)	8GB	SS	-	-	15-15-15-35	1.2	●	●
<b>Hyper X</b>	HX424C15FB/8(XMP)	8GB	DS	-	-	15-15-15-35	1.2	●	
<b>Hyper X</b>	HX424C15FBK2/16	32GB ( 2x 16GB )	DS	-	-	15-15-15-35	1.2	●	
<b>Hyper X</b>	HX424C15FBK2/8	8GB ( 2x 4GB )	SS	-	-	15-15-5-35	1.2	●	
<b>Hyper X</b>	HX424C15FBK4/16	16GB ( 4x 4GB )	SS	-	-	15-15-5-35	1.2	●	●
<b>Hyper X</b>	HX424C15FBK4/16	16GB ( 4x4GB )	SS	-	-	15-15-15-35	1.2	●	●
<b>Hyper X</b>	HX424C15FBK4/32	32GB ( 4x 8GB )	DS	-	-	15-15-15-35	1.2	●	
<b>Hyper X</b>	HX424C15FBK4/64	64GB ( 4x 16GB )	DS	-	-	15-15-15-35	1.2	●	
<b>J&amp;A</b>	AD4U24001716-16M	16GB	DS	-	-	17-17-17-39	-	●	●
<b>J&amp;A</b>	JAD4U24001708-04M	4GB	SS	-	-	17-17-17-39	-	●	●
<b>J&amp;A</b>	JAD4U24001708-08M	8GB	SS	-	-	17-17-17-39	-	●	●
<b>KINGMAX</b>	GLLF62F-DAKZIG-CLBU	4GB	SS	KINGMAX	KGDACZ-CU	17-17-17-39	-	●	●
<b>Kingston</b>	KVR24N17D8/16	16GB	DS	Micron	D9SRJ	17-17-17-39	1.2	●	●
<b>Kingston</b>	KVR24N17D8/8	8GB	DS	Micron	D9TGG	17-17-17-39	1.2	●	●
<b>Kingston</b>	KVR24N17S8/4	4GB	SS	Micron	D9TGG	17-17-17-39	1.2	●	●
<b>Kingston</b>	KVR24N17S8/8	8GB	SS	Micron	D9TBH	17-17-17-39	1.2	●	●
<b>Kingston</b>	KVR24N17S8/8	8GB	SS	-	-	17-17-17-39	1.2	●	●
<b>Klevv</b>	IM44GU48N24-FFFHAB(XMP)	4GB	SS	-	-	15-15-15-35	1.2	●	●
<b>Klevv</b>	KM4B4GX1N-2133-15-15-15-35-0	4GB	SS	-	-	15-15-15-35	1.2	●	●
<b>Klevv</b>	KM4B4GX2N-2133-15-15-15-35-0	4GB	SS	-	-	15-15-15-35	1.2	●	●

<b>Klevv</b>	KM4B4GX4N-2133-15-15-15-35-0	4GB	SS	-	-	15-15-15-35	1.2	●	●
<b>Klevv</b>	IM44GU48N24-FFFHAZ(XMP)	4GB	SS	-	-	15-15-15-35	1.2	●	●
<b>Klevv</b>	KM4Z4GX1N-2400-15-15-15-35-1	4GB	SS	-	-	15-15-15-35	1.2	●	●
<b>Klevv</b>	KM4Z4GX2N-2400-15-15-15-35-1	4GB	SS	-	-	15-15-15-35	1.2	●	●
<b>Klevv</b>	KM4Z4GX4N-2400-15-15-15-35-1	4GB	SS	-	-	15-15-15-35	1.2	●	●
<b>Klevv</b>	IM48GU88N24-FFFHMB(XMP)	8GB	SS	-	-	15-15-15-35	1.2	●	●
<b>Klevv</b>	KM4B8GX1N-2400-15-15-15-35-0	8GB	SS	-	-	15-15-15-35	1.2	●	●
<b>Klevv</b>	KM4B8GX2N-2400-15-15-15-35-0	8GB	SS	-	-	15-15-15-35	1.2	●	●
<b>Klevv</b>	KM4B8GX4N-2400-15-15-15-35-0	8GB	SS	-	-	15-15-15-35	1.2	●	●
<b>Klevv</b>	IM48GU88N24-FFFHMZ(XMP)	8GB	SS	-	-	15-15-15-35	1.2	●	●
<b>Klevv</b>	KM4Z8GX1N-2400-15-15-15-35-1	8GB	SS	-	-	15-15-15-35	1.2	●	●
<b>Klevv</b>	KM4Z8GX2N-2400-15-15-15-35-1	8GB	SS	-	-	15-15-15-35	1.2	●	●
<b>Klevv</b>	KM4Z8GX4N-2400-15-15-15-35-1	8GB	SS	-	-	15-15-15-35	1.2	●	●
<b>Klevv</b>	IM4AGU88N24-FFFHMB(XMP)	16GB	DS	-	-	15-15-15-35	1.2	●	●
<b>Klevv</b>	KM4B16X1N-2133-15-15-15-35-0	16GB	DS	-	-	15-15-15-35	1.2	●	●
<b>Klevv</b>	KM4B16X2N-2133-15-15-15-35-0	16GB	DS	-	-	15-15-15-35	1.2	●	●
<b>Klevv</b>	KM4B16X2N-2133-15-15-15-35-0	16GB	DS	-	-	15-15-15-35	1.2	●	●
<b>Klevv</b>	IM4AGU88N24-FFFHMZ(XMP)	16GB	DS	-	-	15-15-15-35	1.2	●	●
<b>Klevv</b>	KM4Z16X1N-2400-15-15-15-35-0	16GB	DS	-	-	15-15-15-35	1.2	●	●
<b>Klevv</b>	KM4Z16X2N-2400-15-15-15-35-0	16GB	DS	-	-	15-15-15-35	1.2	●	●
<b>Klevv</b>	KM4Z16X4N-2400-15-15-15-35-0	16GB	DS	-	-	15-15-15-35	1.2	●	●
<b>Micron</b>	MTA16ATF2G64AZ-2G3B1	16GB	DS	Micron	D9TBH	17-17-17-39	1.2	●	●
<b>panram</b>	W4U2400PS-8G	8GB	SS	panram	DTCCH912G2	14-14-14-31	-	●	●
<b>PATRIOT</b>	PSD416G24002	16GB	DS	Samsung	K4A8G085WB	17-17-17-39	1.2	●	●
<b>PATRIOT</b>	PSD44G240081	4GB	SS	Samsung	K4A4G085WE	16-16-16-39	1.2	●	●
<b>PATRIOT</b>	PSD44G240081	4GB	SS	PATRIOT	PM5128D4BU-083	16-16-16-39	1.2	●	●
<b>PATRIOT</b>	PSD48G240081	8GB	SS	Samsung	K4A8G085WB	17-17-17-39	1.2	●	●



<b>PATRIOT</b>	PVE416G240C5KRD(XMP)	16GB ( 2x 8GB )	SS	-	-	15-15-15-35	-	●	●
<b>SK Hynix</b>	HMA81GU6AFR8N-UH	8GB	SS	SK Hynix	H5AN8GBNAFR UHC	17-17-17-39	-	●	●
<b>SK Hynix</b>	HMA82GU6AFR8N-UH	16GB	DS	SK Hynix	H5AN8GBNAFR UHC	17-17-17-39	-	●	●
<b>Team</b>	TCD44G2400C14BK(XMP)	4GB	SS	SK Hynix	H5AN4GBNAFR TFC	14-16-16-31	1.2	●	
<b>Team</b>	TLRED416G2400HC14QC01	16GB(4GB*4)	SS	SK Hynix	H5AN4GBNAFR TFC	14-16-16-31	1.2	●	
<b>Team</b>	TLGD416G2400HC14QC01	16GB(4GB*4)	SS	SK Hynix	H5AN4GBNAFR TFC	14-16-16-31	1.2	●	
<b>Team</b>	TDRED416G2400HC14QC01	16GB(4GB*4)	SS	SK Hynix	H5AN4GBNAFR TFC	14-16-16-31	1.2	●	
<b>Team</b>	TDGED416G2400HC14QC01	16GB(4GB*4)	SS	SK Hynix	H5AN4GBNAFR TFC	14-16-16-31	1.2	●	
<b>Team</b>	TLRED48G2400HC14DC01	8GB(4GB*2)	SS	SK Hynix	H5AN4GBNAFR TFC	14-16-16-31	1.2	●	
<b>Team</b>	TLGD48G2400HC14DC01	8GB(4GB*2)	SS	SK Hynix	H5AN4GBNAFR TFC	14-16-16-31	1.2	●	
<b>Team</b>	TDRED48G2400HC14DC01	8GB(4GB*2)	SS	SK Hynix	H5AN4GBNAFR TFC	14-16-16-31	1.2	●	
<b>Team</b>	TDGED48G2400HC14DC01	8GB(4GB*2)	SS	SK Hynix	H5AN4GBNAFR TFC	14-16-16-31	1.2	●	
<b>Team</b>	TLRED44G2400HC1401	4GB	SS	SK Hynix	H5AN4GBNAFR TFC	14-16-16-31	1.2	●	
<b>Team</b>	TLGD44G2400HC1401	4GB	SS	SK Hynix	H5AN4GBNAFR TFC	14-16-16-31	1.2	●	
<b>Team</b>	TDRED44G2400HC1401	4GB	SS	SK Hynix	H5AN4GBNAFR TFC	14-16-16-31	1.2	●	
<b>Team</b>	TDGED44G2400HC1401	4GB	SS	SK Hynix	H5AN4GBNAFR TFC	14-16-16-31	1.2	●	
<b>Team</b>	TCD48G2400C14BK(XMP)	8GB	DS	Team	T4D1024BMT-24	14-16-16-31	1.2	●	
<b>Team</b>	TLRED432G2400HC14QC01	32GB(8GB*4)	DS	Team	T4D1024BMT-24	14-16-16-31	1.2	●	
<b>Team</b>	TLGD432G2400HC14QC01	32GB(8GB*4)	DS	Team	T4D1024BMT-24	14-16-16-31	1.2	●	
<b>Team</b>	TDRED432G2400HC14QC01	32GB(8GB*4)	DS	Team	T4D1024BMT-24	14-16-16-31	1.2	●	
<b>Team</b>	TDGED432G2400HC14QC01	32GB(8GB*4)	DS	Team	T4D1024BMT-24	14-16-16-31	1.2	●	
<b>Team</b>	TLRED416G2400HC14DC01	16GB(8GB*2)	DS	Team	T4D1024BMT-24	14-16-16-31	1.2	●	
<b>Team</b>	TLGD416G2400HC14DC01	16GB(8GB*2)	DS	Team	T4D1024BMT-24	14-16-16-31	1.2	●	
<b>Team</b>	TDRED416G2400HC14DC01	16GB(8GB*2)	DS	Team	T4D1024BMT-24	14-16-16-31	1.2	●	
<b>Team</b>	TDGED416G2400HC14DC01	16GB(8GB*2)	DS	Team	T4D1024BMT-24	14-16-16-31	1.2	●	
<b>Team</b>	TLRED48G2400HC1401	8GB	DS	Team	T4D1024BMT-24	14-16-16-31	1.2	●	
<b>Team</b>	TLGD48G2400HC1401	8GB	DS	Team	T4D1024BMT-24	14-16-16-31	1.2	●	

Team	TDRED48G2400HC1401	8GB	DS	Team	T4D1024BMT-24	14-16-16-31	1.2	•	
Team	TDGED48G2400HC1401	8GB	DS	Team	T4D1024BMT-24	14-16-16-31	1.2	•	
Team	TED416G2400C16BK	16GB	DS	Team	T4D10248MT-24	16-16-16-39	1.2	•	•
Team	TED464G2400C16QC01	64GB(16GB*4)	DS	Team	T4D10248MT-24	16-16-16-39	1.2	•	•
Team	TPRD464G2400HC16QC01	64GB(16GB*4)	DS	Team	T4D10248MT-24	16-16-16-39	1.2	•	•
Team	TPD464G2400HC16QC01	64GB(16GB*4)	DS	Team	T4D10248MT-24	16-16-16-39	1.2	•	•
Team	TED432G2400C16DC01	32GB(16GB*2)	DS	Team	T4D10248MT-24	16-16-16-39	1.2	•	•
Team	TPRD432G2400HC16DC01	32GB(16GB*2)	DS	Team	T4D10248MT-24	16-16-16-39	1.2	•	•
Team	TPD432G2400HC16DC01	32GB(16GB*2)	DS	Team	T4D10248MT-24	16-16-16-39	1.2	•	•
Team	TED416G2400C1601	16GB	DS	Team	T4D10248MT-24	16-16-16-39	1.2	•	•
Team	TPRD416G2400HC1601	16GB	DS	Team	T4D10248MT-24	16-16-16-39	1.2	•	•
Team	TPD416G2400HC1601	16GB	DS	Team	T4D10248MT-24	16-16-16-39	1.2	•	•
Team	TED48G2400C16BK	8GB	DS	Team	T4D5128HT-24	16-16-16-39	1.2	•	•
Team	TED432G2400C16QC01	32GB(8GB*4)	DS	Team	T4D5128HT-24	16-16-16-39	1.2	•	•
Team	TPRD432G2400HC16QC01	32GB(8GB*4)	DS	Team	T4D5128HT-24	16-16-16-39	1.2	•	•
Team	TPD432G2400HC16QC01	32GB(8GB*4)	DS	Team	T4D5128HT-24	16-16-16-39	1.2	•	•
Team	TED416G2400C16DC01	16GB(8GB*2)	DS	Team	T4D5128HT-24	16-16-16-39	1.2	•	•
Team	TPRD416G2400HC16DC01	16GB(8GB*2)	DS	Team	T4D5128HT-24	16-16-16-39	1.2	•	•
Team	TPD416G2400HC16DC01	16GB(8GB*2)	DS	Team	T4D5128HT-24	16-16-16-39	1.2	•	•
Team	TED48G2400C1601	8GB	DS	Team	T4D5128HT-24	16-16-16-39	1.2	•	•
Team	TPRD48G2400HC1601	8GB	DS	Team	T4D5128HT-24	16-16-16-39	1.2	•	•
Team	TPD48G2400HC1601	8GB	DS	Team	T4D5128HT-24	16-16-16-39	1.2	•	•
Team	TFRD44G2400C15ABK	4GB	SS	Team	T4D5128HT-24	15-15-15-35	1.2	•	•
Team	TDTRD416G2400HC15AQC01	16GB(4GB*4)	SS	Team	T4D5128HT-24	15-15-15-35	1.2	•	•
Team	TDTWD416G2400HC15AQC01	16GB(4GB*4)	SS	Team	T4D5128HT-24	15-15-15-35	1.2	•	•
Team	TDTBD416G2400HC15AQC01	16GB(4GB*4)	SS	Team	T4D5128HT-24	15-15-15-35	1.2	•	•
Team	TDTRD48G2400HC15ADC01	8GB(4GB*2)	SS	Team	T4D5128HT-24	15-15-15-35	1.2	•	•
Team	TDTWD48G2400HC15ADC01	8GB(4GB*2)	SS	Team	T4D5128HT-24	15-15-15-35	1.2	•	•
Team	TDTBD48G2400HC15ADC01	8GB(4GB*2)	SS	Team	T4D5128HT-24	15-15-15-35	1.2	•	•
Team	TDTRD44G2400HC15A01	4GB	SS	Team	T4D5128HT-24	15-15-15-35	1.2	•	•
Team	TDTWD44G2400HC15A01	4GB	SS	Team	T4D5128HT-24	15-15-15-35	1.2	•	•
Team	TDTBD44G2400HC15A01	4GB	SS	Team	T4D5128HT-24	15-15-15-35	1.2	•	•
Team	TFRD48G2400C15ABK	8GB	SS	Team	T4D10248HT-24	15-15-15-35	1.2	•	•
Team	TDTRD432G2400HC15AQC01	32GB(8GB*4)	SS	Team	T4D10248HT-24	15-15-15-35	1.2	•	•
Team	TDTWD432G2400HC15AQC01	32GB(8GB*4)	SS	Team	T4D10248HT-24	15-15-15-35	1.2	•	•
Team	TDTBD432G2400HC15AQC01	32GB(8GB*4)	SS	Team	T4D10248HT-24	15-15-15-35	1.2	•	•
Team	TDTRD416G2400HC15ADC01	16GB(8GB*2)	SS	Team	T4D10248HT-24	15-15-15-35	1.2	•	•
Team	TDTWD416G2400HC15ADC01	16GB(8GB*2)	SS	Team	T4D10248HT-24	15-15-15-35	1.2	•	•

Team	TDTBD416G2400HC15ADC01	16GB(8GB*2)	SS	Team	T4D10248HT-24	15-15-15-35	1.2	•	•
Team	TDTRD48G2400HC15A01	8GB	SS	Team	T4D10248HT-24	15-15-15-35	1.2	•	•
Team	TDTWD48G2400HC15A01	8GB	SS	Team	T4D10248HT-24	15-15-15-35	1.2	•	•
Team	TDTBD48G2400HC15A01	8GB	SS	Team	T4D10248HT-24	15-15-15-35	1.2	•	•
Team	TFWD416G2400C15BBK(XMP)	16GB	DS	Team	PP020-093E	15-17-17-35	1.2	•	
Team	TDTRD464G2400HC15BQC01	64GB(16GB*4)	DS	Team	PP020-093E	15-17-17-35	1.2	•	
Team	TDTWD464G2400HC15BQC01	64GB(16GB*4)	DS	Team	PP020-093E	15-17-17-35	1.2	•	
Team	TDTBD464G2400HC15BQC01	64GB(16GB*4)	DS	Team	PP020-093E	15-17-17-35	1.2	•	
Team	TDTRD432G2400HC15BDC01	32GB(16GB*2)	DS	Team	PP020-093E	15-17-17-35	1.2	•	
Team	TDTWD432G2400HC15BDC01	32GB(16GB*2)	DS	Team	PP020-093E	15-17-17-35	1.2	•	
Team	TDTBD432G2400HC15BDC01	32GB(16GB*2)	DS	Team	PP020-093E	15-17-17-35	1.2	•	
Team	TDTRD416G2400HC15B01	16GB	DS	Team	PP020-093E	15-17-17-35	1.2	•	
Team	TDTWD416G2400HC15B01	16GB	DS	Team	PP020-093E	15-17-17-35	1.2	•	
Team	TDTBD416G2400HC15B01	16GB	DS	Team	PP020-093E	15-17-17-35	1.2	•	
V-color	TC48G24S817-IMS	8GB	SS	-	-	17-17-17-39	1.2	•	•
V-color	TD4G8C17-UH	4GB	SS	V-color	DW3J0460HM	15-15-15-36	1.2	•	•
V-color	TD8G16C17-UH	8GB	DS	V-color	A4G8H-24CS	17-17-17-39	1.2	•	•

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

Vendors	Part No.	Size	SS/ DS	Chip Brand	Chip NO.	Timing	Volta ge	DIMM socket support		
								2 DIMM	4 DIMM	8 DIMM
ADATA	AX4U266638G16-DRZ(XMP)	16GB ( 2x 8GB )	SS	-	-	16-16-16-39	1.2	•		
ADATA	AX4U2666W4G16-BRZ(XMP)	4GB	SS	-	-	16-16-16-39	1.2	•	•	
ADATA	AX4U2666W8G16-QRZ(XMP)	32GB ( 4x 8GB )	DS	-	-	16-16-16-39	1.2	•	•	
CORSAIR	CMD128GX4M8A2666C15(Ver4.31)(XMP)	128GB ( 8x 16GB )	DS	-	-	15-17-17-35	1.2	•	•	•
CORSAIR	CMD16GX4M2A2666C15(Ver4.23)(XMP)	16GB ( 2x 8GB )	DS	-	-	15-17-17-35	1.2	•	•	
CORSAIR	CMD16GX4M4A2666C15(Ver4.23)(XMP)	16GB ( 4x 4GB )	SS	-	-	15-17-17-35	1.2	•	•	
CORSAIR	CMD16GX4M4A2666C16(Ver4.23)(XMP)	16GB ( 4x 4GB )	SS	-	-	16-18-18-35	1.2	•	•	
CORSAIR	CMD16GX4M4A2666C16(Ver5.29)(XMP)	16GB ( 4x 4GB )	SS	-	-	16-18-18-35	1.2	•	•	
CORSAIR	CMD32GX4M4A2666C15(Ver4.23)(XMP)	32GB ( 4x 8GB )	DS	-	-	15-17-17-35	1.2	•	•	
CORSAIR	CMD32GX4M4A2666C15(Ver5.29)(XMP)	32GB ( 4x 8GB )	DS	-	-	15-17-17-35	1.2	•	•	
CORSAIR	CMD32GX4M4A2666C16(Ver4.23)(XMP)	32GB ( 4x 8GB )	DS	-	-	16-18-18-35	1.2	•	•	

<b>CORSAIR</b>	CMD64GX4M8A2666C15(Ver4.23)(XMP)	64GB ( 8x 8GB )	DS	-	-	15-17-17-35	1.2	●	●
<b>CORSAIR</b>	CMD64GX4M8A2666C15(Ver4.24)(XMP)	64GB ( 8x 8GB )	DS	-	-	15-17-17-35	1.2	●	●
<b>CORSAIR</b>	CMD8GX4M2A2666C15(Ver4.23)(XMP)	8GB ( 2x 4GB )	DS	-	-	15-17-17-35	1.2	●	
<b>CORSAIR</b>	CMK128GX4M8A2666C16(Ver5.39)(XMP)	128GB ( 8x 16GB )	DS	-	-	16-18-18-35	1.2	●	● ●
<b>CORSAIR</b>	CMK16GX4M2A2666C16(Ver5.29)(XMP)	16GB ( 2x 8GB )	DS	-	-	16-18-18-35	1.2	●	
<b>CORSAIR</b>	CMK16GX4M2A2666C16(Ver5.30)(XMP)	16GB ( 2x 8GB )	SS	-	-	16-18-18-35	1.2	●	
<b>CORSAIR</b>	CMK16GX4M4A2666C15(Ver4.23)(XMP)	16GB ( 4x 4GB )	SS	-	-	15-17-17-35	1.2	●	●
<b>CORSAIR</b>	CMK16GX4M4A2666C15(Ver5.29)(XMP)	16GB ( 4x 4GB )	SS	-	-	15-17-17-35	1.2	●	●
<b>CORSAIR</b>	CMK16GX4M4A2666C16(Ver3.21)(XMP)	16GB ( 4x 4GB )	SS	-	-	16-18-18-35	1.2	●	●
<b>CORSAIR</b>	CMK16GX4M4A2666C16(Ver4.23)(XMP)	16GB ( 4x 4GB )	SS	-	-	16-18-18-35	1.2	●	●
<b>CORSAIR</b>	CMK16GX4M4A2666C16(Ver5.29)(XMP)	16GB ( 4x 4GB )	SS	-	-	16-18-18-35	1.2	●	●
<b>CORSAIR</b>	CMK32GX4M2A2666C16(Ver4.31)(XMP)	32GB ( 2x 16GB )	DS	-	-	16-18-18-35	1.2	●	
<b>CORSAIR</b>	CMK32GX4M2A2666C16R(Ver3.31)(XMP)	32GB ( 2x 16GB )	DS	-	-	16-18-18-35	1.2	●	
<b>CORSAIR</b>	CMK32GX4M4A2666C15(Ver4.23)(XMP)	32GB ( 4x 8GB )	DS	-	-	15-17-17-35	1.2	●	●
<b>CORSAIR</b>	CMK32GX4M4A2666C15(Ver5.29)(XMP)	32GB ( 4x 8GB )	DS	-	-	15-17-17-35	1.2	●	●
<b>CORSAIR</b>	CMK32GX4M4A2666C16(Ver3.20)(XMP)	32GB ( 4x 8GB )	DS	-	-	16-18-18-35	1.2	●	●
<b>CORSAIR</b>	CMK32GX4M4A2666C16(Ver3.21)(XMP)	32GB ( 4x 8GB )	DS	-	-	16-18-18-35	1.2	●	●
<b>CORSAIR</b>	CMK32GX4M4A2666C16(Ver5.29)(XMP)	32GB ( 4x 8GB )	DS	-	-	16-16-18-35	1.2	●	●
<b>CORSAIR</b>	CMK32GX4M4A2666C16(Ver5.30)(XMP)	32GB ( 4x 8GB )	SS	-	-	16-18-18-35	1.2	●	●
<b>CORSAIR</b>	CMK32GX4M4A2666C16R(Ver4.23)(XMP)	32GB ( 4x 8GB )	DS	-	-	16-18-18-35	1.2	●	●
<b>CORSAIR</b>	CMK64GX4M4A2666C16(Ver3.31)(XMP)	64GB ( 4x 16GB )	DS	-	-	16-18-18-35	1.2	●	●
<b>CORSAIR</b>	CMK64GX4M4A2666C16(Ver4.31)(XMP)	64GB ( 4x 16GB )	DS	-	-	16-18-18-35	1.2	●	●

<b>CORSAIR</b>	CMU32GX4M4A2666C16(Ver5.30)(XMP)	32GB ( 4x 8GB )	SS	-	-	16-18-18-35	1.2	●	●
<b>crucial</b>	BLE4G4D26AFEA.8FAD (XMP)	4GB	SS	-	-	16-17-17-36	1.2	●	●
<b>crucial</b>	BLE8G4D26AFEA.16FAD(XMP)	8GB	DS	-	-	16-17-17-36	1.2	●	●
<b>crucial</b>	BLS16G4D26BFSC.16FBD(XMP)	16GB	DS	-	-	16-18-18-38	1.2	●	●
<b>crucial</b>	BLS4G4D26BFSC.8FBR2(XMP)	4GB	SS	-	-	16-18-18-38	1.2	●	●
<b>crucial</b>	BLS8G4D26BFSC.16FBR2(XMP)	8GB	DS	-	-	16-18-18-38	1.2	●	●
<b>crucial</b>	BLT4G4D26AFTA.8FADG(XMP)	16GB ( 4x4GB )	SS	-	-	16-17-17-36	1.2	●	●
<b>crucial</b>	BLT4G4D26AFTA.8FADG(XMP)	4GB	SS	-	-	16-17-17-36	1.2	●	●
<b>crucial</b>	BLT8G4D26AFTA.16FAD(XMP)	32GB ( 4x 8GB )	DS	-	-	16-17-17-36	1.2	●	●
<b>crucial</b>	BLT8G4D26AFTA.16FAD(XMP)	8GB	DS	-	-	16-17-17-36	1.2	●	●
<b>G.SKILL</b>	F4-2666C15Q-16GRR(XMP)	16GB ( 4x 4GB )	SS	-	-	15-15-15-35	1.2	●	●
<b>G.SKILL</b>	F4-2666C15Q-16GVR	16GB ( 4x 4GB )	SS	-	-	15-15-15-35	1.2	●	●
<b>G.SKILL</b>	F4-2666C15Q-16GVB	16GB ( 4x 4GB )	SS	-	-	15-15-15-35	1.2	●	●
<b>G.SKILL</b>	F4-2666C15Q-16GVG	16GB ( 4x 4GB )	SS	-	-	15-15-15-35	1.2	●	●
<b>G.SKILL</b>	F4-2666C15Q-16GVK	16GB ( 4x 4GB )	SS	-	-	15-15-15-35	1.2	●	●
<b>G.SKILL</b>	F4-2666C15Q-16GVS	16GB ( 4x 4GB )	SS	-	-	15-15-15-35	1.2	●	●
<b>G.SKILL</b>	F4-2666C15Q-16GRK	16GB ( 4x 4GB )	SS	-	-	15-15-15-35	1.2	●	●
<b>G.SKILL</b>	F4-2666C15Q-16GRB	16GB ( 4x 4GB )	SS	-	-	15-15-15-35	1.2	●	●
<b>G.SKILL</b>	F4-2666C15Q-32GRR(XMP)	32GB ( 4x 8GB )	DS	-	-	15-15-15-35	1.2	●	●
<b>G.SKILL</b>	F4-2666C15Q-32GVR	32GB ( 4x 8GB )	DS	-	-	15-15-15-35	1.2	●	●
<b>G.SKILL</b>	F4-2666C15Q-32GVB	32GB ( 4x 8GB )	DS	-	-	15-15-15-35	1.2	●	●
<b>G.SKILL</b>	F4-2666C15Q-32GVG	32GB ( 4x 8GB )	DS	-	-	15-15-15-35	1.2	●	●
<b>G.SKILL</b>	F4-2666C15Q-32GVK	32GB ( 4x 8GB )	DS	-	-	15-15-15-35	1.2	●	●
<b>G.SKILL</b>	F4-2666C15Q-32GVS	32GB ( 4x 8GB )	DS	-	-	15-15-15-35	1.2	●	●
<b>G.SKILL</b>	F4-2666C15Q-32GRK	32GB ( 4x 8GB )	DS	-	-	15-15-15-35	1.2	●	●
<b>G.SKILL</b>	F4-2666C15Q-32GRB	32GB ( 4x 8GB )	DS	-	-	15-15-15-35	1.2	●	●
<b>G.SKILL</b>	F4-2666C16Q2-128GVK(XMP)	128GB ( 8x 16GB )	DS	-	-	16-16-16-36	1.2	●	●
<b>G.SKILL</b>	F4-2666C16Q2-128GVR	128GB ( 8x 16GB )	DS	-	-	16-16-16-36	1.2	●	●
<b>Team</b>	TCD44G2666C15BBK(XMP)	4GB	SS	Team	T4D5128HT-266	15-17-17-35	1.2	●	●
<b>Team</b>	TLRED416G2666HC15BQC01	16GB(4GB*4)	SS	Team	T4D5128HT-266	15-17-17-35	1.2	●	●
<b>Team</b>	TLGD416G2666HC15BQC01	16GB(4GB*4)	SS	Team	T4D5128HT-266	15-17-17-35	1.2	●	●
<b>Team</b>	TDRED416G2666HC15BQC01	16GB(4GB*4)	SS	Team	T4D5128HT-266	15-17-17-35	1.2	●	●
<b>Team</b>	TDGED416G2666HC15BQC01	16GB(4GB*4)	SS	Team	T4D5128HT-266	15-17-17-35	1.2	●	●
<b>Team</b>	TLRED48G2666HC15BDC01	8GB(4GB*2)	SS	Team	T4D5128HT-266	15-17-17-35	1.2	●	●
<b>Team</b>	TLGD48G2666HC15BDC01	8GB(4GB*2)	SS	Team	T4D5128HT-266	15-17-17-35	1.2	●	●

Team	TDRED48G2666HC15BDC01	8GB(4GB*2)	SS	Team	T4D5128HT-266	15-17-17-35	1.2	●	
Team	TDGED48G2666HC15BDC01	8GB(4GB*2)	SS	Team	T4D5128HT-266	15-17-17-35	1.2	●	
Team	TFRD416G2666C15BBK(XMP)	16GB	DS	-	K4ABG085WBB CPB	15-17-17-35	1.2	●	●
Team	THRD464G2666HC15BQC01	64GB(16GB*4)	DS	-	K4ABG085WBB CPB	15-17-17-35	1.2	●	●
Team	THWD464G2666HC15BQC01	64GB(16GB*4)	DS	-	K4ABG085WBB CPB	15-17-17-35	1.2	●	●
Team	THBD464G2666HC15BQC01	64GB(16GB*4)	DS	-	K4ABG085WBB CPB	15-17-17-35	1.2	●	●
Team	THRD432G2666HC15BDC01	32GB(16GB*2)	DS	-	K4ABG085WBB CPB	15-17-17-35	1.2	●	
Team	THWD432G2666HC15BDC01	32GB(16GB*2)	DS	-	K4ABG085WBB CPB	15-17-17-35	1.2	●	
Team	THBD432G2666HC15BDC01	32GB(16GB*2)	DS	-	K4ABG085WBB CPB	15-17-17-35	1.2	●	
Team	TFWD48G2666C15BBK(XMP)	8GB	DS	-	K4A4G085WSB CPB	15-17-17-35	1.2	●	●
Team	TLRED432G2666HC15BQC01	32GB(8GB*4)	DS	-	K4A4G085WSB CPB	15-17-17-35	1.2	●	●
Team	TLGD432G2666HC15BQC01	32GB(8GB*4)	DS	-	K4A4G085WSB CPB	15-17-17-35	1.2	●	●
Team	TDRED432G2666HC15BQC01	32GB(8GB*4)	DS	-	K4A4G085WSB CPB	15-17-17-35	1.2	●	●
Team	TDGED432G2666HC15BQC01	32GB(8GB*4)	DS	-	K4A4G085WSB CPB	15-17-17-35	1.2	●	●
Team	THRD432G2666HC15BQC01	32GB(8GB*4)	DS	-	K4A4G085WSB CPB	15-17-17-35	1.2	●	●
Team	THWD432G2666HC15BQC01	32GB(8GB*4)	DS	-	K4A4G085WSB CPB	15-17-17-35	1.2	●	●
Team	THBD432G2666HC15BQC01	32GB(8GB*4)	DS	-	K4A4G085WSB CPB	15-17-17-35	1.2	●	●
Team	TLRED416G2666HC15BDC01	16GB(8GB*2)	DS	-	K4A4G085WSB CPB	15-17-17-35	1.2	●	
Team	TLGD416G2666HC15BDC01	16GB(8GB*2)	DS	-	K4A4G085WSB CPB	15-17-17-35	1.2	●	
Team	TDRED416G2666HC15BDC01	16GB(8GB*2)	DS	-	K4A4G085WSB CPB	15-17-17-35	1.2	●	
Team	TDGED416G2666HC15BDC01	16GB(8GB*2)	DS	-	K4A4G085WSB CPB	15-17-17-35	1.2	●	
Team	THRD416G2666HC15BDC01	16GB(8GB*2)	DS	-	K4A4G085WSB CPB	15-17-17-35	1.2	●	
Team	THWD416G2666HC15BDC01	16GB(8GB*2)	DS	-	K4A4G085WSB CPB	15-17-17-35	1.2	●	

<b>Team</b>	THBD416G2666HC15BDC01	16GB(8GB*2)	DS	-	K4A4G085WSB CPB	15-17-17-35	1.2	●	
<b>Team</b>	TED416G2666C1901	16GB	DS	Micron	-	19-19-19-43	1.2	●	●
<b>Team</b>	TED416G2666C19DC01	16GB(8GB*2)	SS	Micron	-	19-19-19-43	1.2	●	
<b>Team</b>	TED416G2666C19QC01	16GB(4GB*4)	SS	SK Hynix	-	19-19-19-43	1.2	●	●
<b>Team</b>	TED432G2666C19DC01	32GB(16GB*2)	DS	Micron	-	19-19-19-43	1.2	●	●
<b>Team</b>	TED432G2666C19QC01	32GB(8GB*4)	SS	SK Hynix	-	19-19-19-43	1.2	●	
<b>Team</b>	TED44G2666C1901	4GB	SS	SK Hynix	-	19-19-19-43	1.2	●	●
<b>Team</b>	TED464G2666C19QC01	64GB(16GB*4)	DS	Micron	-	19-19-19-43	1.2	●	●
<b>Team</b>	TED48G2666C1901	8GB	SS	Micron	-	19-19-19-43	1.2	●	
<b>Team</b>	TED48G2666C19DC01	8GB(4GB*2)	SS	SK Hynix	-	19-19-19-43	1.2	●	●
<b>Team</b>	TPD416G2666HC1901	16GB	DS	Micron	-	19-19-19-43	1.2	●	●
<b>Team</b>	TPD416G2666HC19BK	16GB	DS	Micron	-	19-19-19-43	1.2	●	●
<b>Team</b>	TPD416G2666HC19DC01	16GB(8GB*2)	SS	Micron	-	19-19-19-43	1.2	●	
<b>Team</b>	TPD416G2666HC19QC01	16GB(4GB*4)	SS	SK Hynix	-	19-19-19-43	1.2	●	●
<b>Team</b>	TPD432G2666HC19DC01	32GB(16GB*2)	DS	Micron	-	19-19-19-43	1.2	●	●
<b>Team</b>	TPD432G2666HC19QC01	32GB(8GB*4)	SS	Micron	-	19-19-19-43	1.2	●	
<b>Team</b>	TPD44G2666HC1901	4GB	SS	SK Hynix	-	19-19-19-43	1.2	●	●
<b>Team</b>	TPD44G2666HC19BK	4GB	SS	SK Hynix	-	19-19-19-43	1.2	●	●
<b>Team</b>	TPD464G2666HC19QC01	64GB(16GB*4)	DS	Micron	-	19-19-19-43	1.2	●	●
<b>Team</b>	TPD48G2666HC1901	8GB	SS	Micron	-	19-19-19-43	1.2	●	
<b>Team</b>	TPD48G2666HC19BK	8GB	SS	Micron	-	19-19-19-43	1.2	●	
<b>Team</b>	TPD48G2666HC19DC01	8GB(4GB*2)	SS	SK Hynix	-	19-19-19-43	1.2	●	●
<b>Team</b>	TPRD416G2666HC1901	16GB	DS	Micron	-	19-19-19-43	1.2	●	●
<b>Team</b>	TPRD416G2666HC19DC01	16GB(8GB*2)	SS	Micron	-	19-19-19-43	1.2	●	
<b>Team</b>	TPRD416G2666HC19QC01	16GB(4GB*4)	SS	SK Hynix	-	19-19-19-43	1.2	●	●
<b>Team</b>	TPRD432G2666HC19DC01	32GB(16GB*2)	DS	Micron	-	19-19-19-43	1.2	●	●
<b>Team</b>	TPRD432G2666HC19QC01	32GB(8GB*4)	SS	Micron	-	19-19-19-43	1.2	●	
<b>Team</b>	TPRD44G2666HC1901	4GB	SS	SK Hynix	-	19-19-19-43	1.2	●	●
<b>Team</b>	TPRD48G2666HC1901	8GB	SS	Micron	-	19-19-19-43	1.2	●	
<b>Team</b>	TPRD48G2666HC19DC01	8GB(4GB*2)	SS	SK Hynix	-	19-19-19-43	1.2	●	●

### DDR4 2800 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/ DS	Chip Brand	Chip NO.	Timing	Volta ge	DIMM socket support		
								2 DIMM	4 DIMM	8 DIMM
<b>ADATA</b>	AX4U2800316G16(XMP)	16GB	DS	-	-	16-16-16-36	1.2	●	●	
<b>ADATA</b>	AX4U2800316G16-SBF(XMP)	16GB	DS	-	-	16-16-16-36	1.2	●	●	
<b>ADATA</b>	AX4U280038G17-SBF(XMP)	8GB	SS	-	-	17-17-17-36	1.2	●	●	
<b>ADATA</b>	AX4U2800W4G17-BRZ(XMP)	4GB	SS	-	-	17-17-17-36	1.2	●	●	
<b>ADATA</b>	AX4U2800W8G15(XMP)	8GB	DS	-	-	15-16-16-35	1.25	●		
<b>ADATA</b>	AX4U2800W8G17-BRD(XMP)	8GB	DS	-	-	17-17-17-36	1.2	●	●	
<b>ADATA</b>	AX4U2800W8G17-BRZ(XMP)	8GB	DS	-	-	17-17-17-36	1.2	●	●	
<b>Apacer</b>	78.BAGM8.AF20B(XMP)	16GB (4x 4GB )	SS	-	-	17-17-17-36	-	●	●	

<b>Apacer</b>	EK.16GAW.KFAK2(XMP)	8GB	DS	-	-	17-17-17-36	-	●	
<b>Apacer</b>	AHU08GGB28CET6H (EK.16GAW.KFAK2)	8GB	DS	Apacer	-	17-17-17-36	1.2	●	
<b>Apacer</b>	AHU08GGB28CEU6H (EK.16GAW.GFAK2)	16GB (2x 8GB )	SS	Apacer	-	17-17-17-36	1.2	●	
<b>Apacer</b>	AHU08GGB28CEU5H (EK.16GAW.GFBK2)	16GB (2x 8GB )	SS	Apacer	-	17-17-17-36	1.2	●	
<b>CORSAIR</b>	CMD16GX4M4A2800C16(Ver4.2 3)(XMP)	16GB ( 4x 4GB )	SS	-	-	16-18-18-36	1.2	●	●
<b>CORSAIR</b>	CMD16GX4M4A2800C16(Ver5.2 9)(XMP)	16GB ( 4x 4GB )	SS	-	-	16-18-18-36	1.2	●	●
<b>CORSAIR</b>	CMK16GX4M4A2800C16(Ver4.2 3)(XMP)	16GB ( 4x 4GB )	SS	-	-	16-16-18-36	1.2	●	●
<b>CORSAIR</b>	CMK16GX4M4A2800C16(Ver5.2 9)(XMP)	16GB ( 4x 4GB )	SS	-	-	16-18-18-36	1.2	●	●
<b>G.SKILL</b>	F4-2800C14Q-64GVK(XMP)	64GB ( 4x 16GB )	DS	-	-	14-14-14-35	1.35	●	●
<b>G.SKILL</b>	F4-2800C15Q2-128GRKD(XMP)	128GB ( 8x 16GB )	DS	-	-	15-15-15-35	1.35	●	● ●
<b>G.SKILL</b>	F4-2800C15Q2-64GRK(XMP)	64GB ( 8x 8GB )	DS	-	-	15-16-16-35	1.25	●	● ●
<b>G.SKILL</b>	F4-2800C16Q-16GRK(XMP)	16GB ( 4x 4GB )	SS	-	-	16-16-16-36	1.2	●	●
<b>G.SKILL</b>	F4-2800C16Q-16GVR	16GB ( 4x 4GB )	SS			16-16-16-36	1.2	●	●
<b>G.SKILL</b>	F4-2800C16Q-16GVB	16GB ( 4x 4GB )	SS			16-16-16-36	1.2	●	●
<b>G.SKILL</b>	F4-2800C16Q-16GVK	16GB ( 4x 4GB )	SS			16-16-16-36	1.2	●	●
<b>G.SKILL</b>	F4-2800C16Q-16GVG	16GB ( 4x 4GB )	SS			16-16-16-36	1.2	●	●
<b>G.SKILL</b>	F4-2800C16Q-16GVS	16GB ( 4x 4GB )	SS			16-16-16-36	1.2	●	●
<b>G.SKILL</b>	F4-2800C16Q-16GRR(XMP)	16GB ( 4x 4GB )	SS	-	-	16-16-16-36	1.2	●	●
<b>G.SKILL</b>	F4-2800C16Q-32GRK(XMP)	32GB ( 4x 8GB )	DS	-	-	16-16-16-36	1.2	●	●
<b>G.SKILL</b>	F4-2800C16Q-32GRR(XMP)	32GB ( 4x 8GB )	DS	-	-	16-16-16-36	1.2	●	●
<b>G.SKILL</b>	F4-2800C16Q-32GVR	32GB ( 4x 8GB )	DS			16-16-16-36	1.2	●	●
<b>G.SKILL</b>	F4-2800C16Q-32GVB	32GB ( 4x 8GB )	DS			16-16-16-36	1.2	●	●
<b>G.SKILL</b>	F4-2800C16Q-32GVK	32GB ( 4x 8GB )	DS			16-16-16-36	1.2	●	●
<b>G.SKILL</b>	F4-2800C16Q-32GVG	32GB ( 4x 8GB )	DS			16-16-16-36	1.2	●	●
<b>G.SKILL</b>	F4-2800C16Q-32GVS	32GB ( 4x 8GB )	DS			16-16-16-36	1.2	●	●
<b>GeIL</b>	GPR416GB2800C16QC(XMP)	16GB ( 4x 4GB )	SS	-	-	16-16-16-36	1.2	●	●
<b>GeIL</b>	GPR432GB2800C16QC(XMP)	32GB ( 4x 8GB )	DS	-	-	16-16-16-36	1.2	●	●
<b>Hyper X</b>	HX428C14PBK8/64(XMP)	64GB (8x 8GB )	DS	-	-	14-15-15-39	1.35		●
<b>Hyper X</b>	HX428C14SB2/4(XMP)	4GB	SS	-	-	14-16-16-39	1.35	●	●
<b>Hyper X</b>	HX428C14SB2/8(XMP)	8GB	DS	-	-	14-16-16-39	1.35	●	●
<b>Hyper X</b>	HX428C14SB2K2/16(XMP)	16GB ( 2x 8GB )	DS	-	-	14-16-16-39	1.35	●	
<b>Hyper X</b>	HX428C14SB2K2/8(XMP)	8GB ( 2x 4GB )	SS	-	-	14-16-16-39	1.35	●	
<b>Hyper X</b>	HX428C14SB2K4/16(XMP)	16GB ( 4x 4GB )	SS	-	-	14-16-16-39	1.35	●	●
<b>Hyper X</b>	HX428C14SB2K4/32(XMP)	32GB ( 4x 8GB )	DS	-	-	14-16-16-39	1.35	●	●



<b>Klevv</b>	IMA451U6MFR8N-DG0(Ver1.05)(XMP)	4GB	SS	-	-	16-16-16-36	1.2	•
<b>NEO FORZA</b>	NMUD416E81-2800EB30	64GB(4x16GB)	DS	-	-	2800-17-17-17-36	-	•
<b>NEO FORZA</b>	NMUD416E82-2800EB30	64GB(4x16GB)	DS	-	-	2800-17-17-17-36	-	•
<b>NEO FORZA</b>	NMUD416E81-2800EC30	64GB(4x16GB)	DS	-	-	2800-17-17-17-36	-	•
<b>NEO FORZA</b>	NMUD416E82-2800EC30	64GB(4x16GB)	DS	-	-	2800-17-17-17-36	-	•
<b>NEO FORZA</b>	NMUD416E81-2800ED30	64GB(4x16GB)	DS	-	-	2800-17-17-17-36	-	•
<b>NEO FORZA</b>	NMUD416E82-2800ED30	64GB(4x16GB)	DS	-	-	2800-17-17-17-36	-	•
<b>NEO FORZA</b>	NMUD480E81-2800EB30	32GB ( 4x 8GB )	SS	-	-	2800-17-17-17-36	-	•
<b>NEO FORZA</b>	NMUD480E82-2800EB30	32GB ( 4x 8GB )	SS	-	-	2800-17-17-17-36	-	•
<b>NEO FORZA</b>	NMUD480E81-2800EC30	32GB ( 4x 8GB )	SS	-	-	2800-17-17-17-36	-	•
<b>NEO FORZA</b>	NMUD480E82-2800EC30	32GB ( 4x 8GB )	SS	-	-	2800-17-17-17-36	-	•
<b>NEO FORZA</b>	NMUD480E8-2800DD2A(XMP)	32GB ( 4x 8GB )	SS	-	-	2800-17-17-17-36	-	•
<b>NEO FORZA</b>	NMUD480E81-2800ED30	32GB ( 4x 8GB )	SS	-	-	2800-17-17-17-36	-	•
<b>NEO FORZA</b>	NMUD480E82-2800ED30	32GB ( 4x 8GB )	SS	-	-	2800-17-17-17-36	-	•
<b>Team</b>	TCD44G2800C16CBK(XMP)	4GB	SS	Team	T4D5128HT-30	16-18-18-38	1.2	•
<b>Team</b>	TLRED416G2800HC16CQC01	16GB(4GB*4)	SS	Team	T4D5128HT-30	16-18-18-38	1.2	•
<b>Team</b>	TLGD416G2800HC16CQC01	16GB(4GB*4)	SS	Team	T4D5128HT-30	16-18-18-38	1.2	•
<b>Team</b>	TDRED416G2800HC16CQC01	16GB(4GB*4)	SS	Team	T4D5128HT-30	16-18-18-38	1.2	•
<b>Team</b>	TDGED416G2800HC16CQC01	16GB(4GB*4)	SS	Team	T4D5128HT-30	16-18-18-38	1.2	•
<b>Team</b>	TLRED48G2800HC16CDC01	8GB(4GB*2)	SS	Team	T4D5128HT-30	16-18-18-38	1.2	•
<b>Team</b>	TLGD48G2800HC16CDC01	8GB(4GB*2)	SS	Team	T4D5128HT-30	16-18-18-38	1.2	•
<b>Team</b>	TDRED48G2800HC16CDC01	8GB(4GB*2)	SS	Team	T4D5128HT-30	16-18-18-38	1.2	•
<b>Team</b>	TDGED48G2800HC16CDC01	8GB(4GB*2)	SS	Team	T4D5128HT-30	16-18-18-38	1.2	•
<b>Team</b>	TFRD48G2800C16CBK(XMP)	8GB	DS	-	K4A4G085WSB CPB	16-18-18-38	1.2	•
<b>Team</b>	TLRED432G2800HC16CQC01	32GB(8GB*4)	DS	-	K4A4G085WSB CPB	16-18-18-38	1.2	•
<b>Team</b>	TLGD432G2800HC16CQC01	32GB(8GB*4)	DS	-	K4A4G085WSB CPB	16-18-18-38	1.2	•

<b>Team</b>	TDRED432G2800HC16CQC01	32GB(8GB*4)	DS	-	K4A4G085WSB CPB	16-18-18-38	1.2	•
<b>Team</b>	TDGED432G2800HC16CQC01	32GB(8GB*4)	DS	-	K4A4G085WSB CPB	16-18-18-38	1.2	•
<b>Team</b>	THRD432G2800HC16CQC01	32GB(8GB*4)	DS	-	K4A4G085WSB CPB	16-18-18-38	1.2	•
<b>Team</b>	THWD432G2800HC16CQC01	32GB(8GB*4)	DS	-	K4A4G085WSB CPB	16-18-18-38	1.2	•
<b>Team</b>	THBD432G2800HC16CQC01	32GB(8GB*4)	DS	-	K4A4G085WSB CPB	16-18-18-38	1.2	•
<b>Team</b>	TLRED416G2800HC16CDC01	16GB(8GB*2)	DS	-	K4A4G085WSB CPB	16-18-18-38	1.2	•
<b>Team</b>	TLGD416G2800HC16CDC01	16GB(8GB*2)	DS	-	K4A4G085WSB CPB	16-18-18-38	1.2	•
<b>Team</b>	TDRED416G2800HC16CDC01	16GB(8GB*2)	DS	-	K4A4G085WSB CPB	16-18-18-38	1.2	•
<b>Team</b>	TDGED416G2800HC16CDC01	16GB(8GB*2)	DS	-	K4A4G085WSB CPB	16-18-18-38	1.2	•
<b>Team</b>	THRD416G2800HC16CDC01	16GB(8GB*2)	DS	-	K4A4G085WSB CPB	16-18-18-38	1.2	•
<b>Team</b>	THWD416G2800HC16CDC01	16GB(8GB*2)	DS	-	K4A4G085WSB CPB	16-18-18-38	1.2	•
<b>Team</b>	THBD416G2800HC16CDC01	16GB(8GB*2)	DS	-	K4A4G085WSB CPB	16-18-18-38	1.2	•

### DDR4 3000 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/ DS	Chip Brand	Chip NO.	Timing	Volta ge	DIMM socket support		
								2 DIMM	4 DIMM	8 DIMM
<b>ADATA</b>	AX4U3000316G16-BGZ(XMP)	16GB	DS	-	-	16-18-18-36	1.35	•	•	
<b>ADATA</b>	AX4U300038G16-DBZ(XMP)	8GB	SS	-	-	16-18-18-36	1.35	•	•	
<b>ADATA</b>	AX4U3000W4G16-BWZ(XMP)	4GB	SS	-	-	16-16-16-36	1.35	•		
<b>ADATA</b>	AX4U3000W8G16-BWZ(XMP)	8GB	DS	-	-	16-16-16-36	1.35	•	•	
<b>Apacer</b>	EK.16GAW.KFBK2(XMP)	8GB	DS	-	-	16-16-16-36	-	•	•	
<b>Apacer</b>	AHU08GGB30CDG6H (EK.16GAZ.GEAK2)	16GB (2x 8GB )	SS	Apacer	-	16-16-16-36	1.35	•	•	
<b>Apacer</b>	AHU08GGB30CDU5H (EK.16GAZ.GEBK2)	16GB (2x 8GB )	SS	Apacer	-	16-16-16-36	1.35	•	•	
<b>CORSAIR</b>	CMD16GX4M2B3000C15(Ver4.2 3)(XMP)	16GB ( 2x 8GB )	DS	-	-	15-17-17-35	1.35	•		
<b>CORSAIR</b>	CMD16GX4M2B3000C15(Ver5.3 0)(XMP)	16GB ( 2x 8GB )	SS	-	-	15-17-17-35	1.35	•		
<b>CORSAIR</b>	CMD16GX4M4B3000C15(Ver4.2 3)(XMP)	16GB ( 4x 4GB )	SS	-	-	15-17-17-35	1.35	•	•	

<b>CORSAIR</b>	CMD16GX4M4B3000C15(Ver5.29)(XMP)	16GB ( 4x 4GB )	DS	-	-	15-17-17-35	1.35	●	●
<b>CORSAIR</b>	CMD32GX4M4B3000C15(Ver4.23)(XMP)	32GB ( 4x 8GB )	DS	-	-	15-17-17-35	1.35	●	●
<b>CORSAIR</b>	CMD32GX4M4C3000C15(Ver5.30)(XMP)	32GB ( 4x 8GB )	SS	-	-	15-17-17-35	1.35	●	●
<b>CORSAIR</b>	CMK16GX4M2B3000C15(Ver4.23)(XMP)	16GB ( 2x 8GB )	DS	-	-	15-17-17-35	1.35	●	
<b>CORSAIR</b>	CMK16GX4M2B3000C15(Ver5.30)(XMP)	16GB ( 2x 8GB )	SS	-	-	15-17-17-35	1.35	●	
<b>CORSAIR</b>	CMK16GX4M4B3000C15(Ver5.29)(XMP)	16GB ( 4x 4GB )	SS	-	-	15-17-17-35	1.35	●	●
<b>CORSAIR</b>	CMK32GX4M2B3000C15(Ver4.31)(XMP)	32GB ( 2x 16GB )	DS	-	-	15-17-17-35	1.35	●	
<b>CORSAIR</b>	CMK32GX4M4B3000C15(Ver4.24)(XMP)	32GB ( 4x 8GB )	DS	-	-	15-17-17-35	1.35	●	●
<b>CORSAIR</b>	CMK64GX4M4B3000C15(Ver4.31)(XMP)	64GB ( 4x 16GB )	DS	-	-	15-17-17-35	1.35	●	●
<b>CORSAIR</b>	CMK8GX4M2B3000C15(Ver4.23)(XMP)	8GB ( 2x 4GB )	DS	-	-	15-17-17-35	1.35	●	
<b>CORSAIR</b>	CMR16GX4M2C3000C15(Ver4.31)(XMP)	16GB ( 2x 8GB )	SS	-	-	15-17-17-35	1.35	●	
<b>CORSAIR</b>	CMR32GX4M4C3000C15(Ver4.31)(XMP)	32GB ( 4x 8GB )	SS	-	-	15-17-17-35	1.35	●	●
<b>CORSAIR</b>	CMU16GX4M2C3000C15(Ver3.21)(XMP)	16GB ( 2x 8GB )	DS	-	-	15-17-17-35	1.35	●	
<b>crucial</b>	BLE4G4D30AEEA.K8FE(XMP)	4GB	SS	-	-	15-16-16-35	1.35	●	●
<b>crucial</b>	BLE8G4D30AEEA.K16FE(XMP)	8GB	DS	-	-	15-16-16-35	1.35	●	●
<b>crucial</b>	BLT4G4D30AETA.K8FE(XMP)	4GB	SS	-	-	15-16-16-35	1.35	●	●
<b>crucial</b>	BLT8G4D30AETA.K16FE(XMP)	8GB	DS	-	-	15-16-16-35	1.35	●	●
<b>G.SKILL</b>	F4-3000C14Q2-128GVK(XMP)	128GB ( 8x 16GB )	DS	-	-	14-14-14-34	1.35	●	●
<b>G.SKILL</b>	F4-3000C14Q2-128GVVD	128GB ( 8x 16GB )	DS			14-14-14-34	1.35	●	●
<b>G.SKILL</b>	F4-3000C14Q2-128GVKD	128GB ( 8x 16GB )	DS			14-14-14-34	1.35	●	●
<b>G.SKILL</b>	F4-3000C15D-8GTZB(XMP)	8GB ( 2x 4GB )	SS	-	-	15-16-16-35	1.35	●	
<b>G.SKILL</b>	F4-3000C15D-8GTZB	8GB ( 2x 4GB )	SS			15-16-16-35	1.35	●	
<b>G.SKILL</b>	F4-3000C15D-8GVVB	8GB ( 2x 4GB )	SS			15-16-16-35	1.35	●	
<b>G.SKILL</b>	F4-3000C15Q-16GRK(XMP)	16GB ( 4x 4GB )	SS	-	-	15-15-15-35	1.35	●	●
<b>G.SKILL</b>	F4-3000C15Q-16GTZ	16GB ( 4x 4GB )	SS			15-15-15-35	1.35	●	●
<b>G.SKILL</b>	F4-3000C15Q-16GVR	16GB ( 4x 4GB )	SS			15-15-15-35	1.35	●	●
<b>G.SKILL</b>	F4-3000C15Q-16GVB	16GB ( 4x 4GB )	SS			15-15-15-35	1.35	●	●

<b>G.SKILL</b>	F4-3000C15Q-16GVK	16GB ( 4x 4GB )	SS			15-15-15-35	1.35	●	●
<b>G.SKILL</b>	F4-3000C15Q-16GVG	16GB ( 4x 4GB )	SS			15-15-15-35	1.35	●	●
<b>G.SKILL</b>	F4-3000C15Q-16GVS	16GB ( 4x 4GB )	SS			15-15-15-35	1.35	●	●
<b>G.SKILL</b>	F4-3000C15Q-16GRR(XMP)	16GB ( 4x 4GB )	SS	-	-	15-15-15-35	1.35	●	●
<b>G.SKILL</b>	F4-3000C15Q-32GRK(XMP)	32GB ( 4x 8GB )	DS	-	-	15-15-15-35	1.35	●	
<b>G.SKILL</b>	F4-3000C15Q-32GTZ	32GB ( 4x 8GB )	DS			15-15-15-35	1.35	●	
<b>G.SKILL</b>	F4-3000C15Q-32GVR	32GB ( 4x 8GB )	DS			15-15-15-35	1.35	●	
<b>G.SKILL</b>	F4-3000C15Q-32GVB	32GB ( 4x 8GB )	DS			15-15-15-35	1.35	●	
<b>G.SKILL</b>	F4-3000C15Q-32GVK	32GB ( 4x 8GB )	DS			15-15-15-35	1.35	●	
<b>G.SKILL</b>	F4-3000C15Q-32GVG	32GB ( 4x 8GB )	DS			15-15-15-35	1.35	●	
<b>G.SKILL</b>	F4-3000C15Q-32GVS	32GB ( 4x 8GB )	DS			15-15-15-35	1.35	●	
<b>G.SKILL</b>	F4-3000C16Q2-128GVKB(XMP)	128GB ( 8x 16GB )	DS	-	-	16-18-18-38	1.35	●	● ●
<b>GeIL</b>	GLR416GB3000C16QC(XMP)	16GB ( 4x 4GB )	SS	-	-	16-16-16-36	1.35	●	●
<b>GeIL</b>	GWW416GB3000C15DC(XMP)	16GB ( 2x 8GB )	DS	GeIL	CG4L512G88BA093L	15-17-17-35	1.35	●	
<b>Hyper X</b>	HX430C15PB3K4/64(XMP)	64GB ( 4x 16GB )	DS	-	-	15-17-17-36	1.35	●	●
<b>Hyper X</b>	HX430C15SB2/4(XMP)	4GB	SS	-	-	15-17-17-39	1.35	●	●
<b>Hyper X</b>	HX430C15SB2K2/8(XMP)	8GB ( 2x 4GB )	SS	-	-	15-17-17-39	1.35	●	
<b>Hyper X</b>	HX430C15SB2K4/16(XMP)	16GB ( 4x 4GB )	SS	-	-	15-17-17-39	1.35	●	●
<b>Hyper X</b>	HX430C15SBK2/16(XMP)	16GB ( 2x 8GB )	DS	-	-	15-16-16-39	1.35	●	
<b>Hyper X</b>	HX430C16PBK4/64(XMP)	64GB ( 4x 16GB )	DS	-	-	16-16-16-39	1.35	●	●
<b>Klevv</b>	IM44GU48A30-FGGHAZ(XMP)	4GB	SS	-	-	15-15-16-36	1.35	●	●
<b>Klevv</b>	IM44GU48A30-GIIHMC(XMP)	4GB	SS	-	-	16-18-18-36	1.35	●	●
<b>Klevv</b>	IM44GU48N30-FFFHAB(XMP)	4GB	SS	-	-	15-15-16-36	1.2	●	●
<b>Klevv</b>	IM48GU48A30-GIIHMC(XMP)	8GB	DS	-	-	16-18-18-36	1.35	●	●
<b>Klevv</b>	IM48GU88A30-FGGHMZ(XMP)	8GB	DS	-	-	15-15-16-36	1.35	●	●
<b>Klevv</b>	IM4AGU88A30-FGGHMZ(XMP)	16GB	DS	-	-	15-15-16-36	1.35	●	●
<b>Klevv</b>	IM4AGU88N30-FFFHMB(XMP)	16GB	DS	-	-	15-15-16-36	1.2	●	●
<b>NEO FORZA</b>	NFMUD416E8-3000DB2A(XMP)	16GB	DS	-	-	15-17-17-35	-	●	●
<b>NEO FORZA</b>	NFMUD416E8-3000DB3A(XMP)	16GB	DS	-	-	15-17-17-35	-	●	●
<b>NEO FORZA</b>	NFMUD416E8-3000DC2A(XMP)	16GB	DS	-	-	15-17-17-35	-	●	●
<b>NEO FORZA</b>	NFMUD416E8-3000DC3A(XMP)	16GB	DS	-	-	15-17-17-35	-	●	●
<b>NEO FORZA</b>	NFMUD416E8-3000DD2A(XMP)	16GB	DS	-	-	15-17-17-35	-	●	●
<b>NEO FORZA</b>	NFMUD416E8-3000DD3A(XMP)	16GB	DS	-	-	15-17-17-35	-	●	●

<b>NEO FORZA</b>	NFMUD416E8-3000DH2A(XMP)	16GB	DS	-	-	15-17-17-35	-	●	●
<b>NEO FORZA</b>	NFMUD416E8-3000DH2A(XMP)	16GB	DS	-	-	15-17-17-35	-	●	●
<b>NEO FORZA</b>	NFMUD480E8-3000DB2A(XMP)	8GB	SS	-	-	15-17-17-35	-	●	●
<b>NEO FORZA</b>	NFMUD480E8-3000DB3A(XMP)	8GB	SS	-	-	15-17-17-35	-	●	●
<b>NEO FORZA</b>	NFMUD480E8-3000DC2A(XMP)	8GB	SS	-	-	15-17-17-35	-	●	●
<b>NEO FORZA</b>	NFMUD480E8-3000DC3A(XMP)	8GB	SS	-	-	15-17-17-35	-	●	●
<b>NEO FORZA</b>	NFMUD480E8-3000DD2A(XMP)	8GB	SS	-	-	15-17-17-35	-	●	●
<b>NEO FORZA</b>	NFMUD480E8-3000DD3A(XMP)	8GB	SS	-	-	15-17-17-35	-	●	●
<b>NEO FORZA</b>	NFMUD480E8-3000DH2A(XMP)	8GB	SS	-	-	15-17-17-35	-	●	●
<b>NEO FORZA</b>	NFMUD480E8-3000DH2A(XMP)	8GB	SS	-	-	15-17-17-35	-	●	●
<b>PATRIOT</b>	PV48G300C6K(XMP)	8GB ( 2x 4GB )	SS	-	-	16-16-16-36	1.35	●	●
<b>PATRIOT</b>	PV416G300C6K(XMP)	16GB ( 2x 8GB )	SS	-	-	16-16-16-36	-	●	
<b>PATRIOT</b>	PVE48G300C6KRD(XMP)	8GB ( 2x 4GB )	SS	-	-	16-16-16-36	-	●	
<b>Team</b>	TCD44G3000C16CBK(XMP)	4GB	SS	Team	T4D5128HT-30	16-18-18-38	1.35	●	●
<b>Team</b>	TLRED416G3000HC16CQC01	16GB(4GB*4)	SS	Team	T4D5128HT-30	16-18-18-38	1.35	●	●
<b>Team</b>	TLGD416G3000HC16CQC01	16GB(4GB*4)	SS	Team	T4D5128HT-30	16-18-18-38	1.35	●	●
<b>Team</b>	TDRED416G3000HC16CQC01	16GB(4GB*4)	SS	Team	T4D5128HT-30	16-18-18-38	1.35	●	●
<b>Team</b>	TDGED416G3000HC16CQC01	16GB(4GB*4)	SS	Team	T4D5128HT-30	16-18-18-38	1.35	●	●
<b>Team</b>	TLRED48G3000HC16CDC01	8GB(4GB*2)	SS	Team	T4D5128HT-30	16-18-18-38	1.35	●	
<b>Team</b>	TLGD48G3000HC16CDC01	8GB(4GB*2)	SS	Team	T4D5128HT-30	16-18-18-38	1.35	●	
<b>Team</b>	TDRED48G3000HC16CDC01	8GB(4GB*2)	SS	Team	T4D5128HT-30	16-18-18-38	1.35	●	
<b>Team</b>	TDGED48G3000HC16CDC01	8GB(4GB*2)	SS	Team	T4D5128HT-30	16-18-18-38	1.35	●	
<b>Team</b>	TFRD48G3000C16CBK(XMP)	8GB	DS	-	K4A4G085WSB CPB	16-18-18-38	1.35	●	
<b>Team</b>	TLRED432G3000HC16CQC01	32GB(8GB*4)	DS	-	K4A4G085WSB CPB	16-18-18-38	1.35	●	●
<b>Team</b>	TLGD432G3000HC16CQC01	32GB(8GB*4)	DS	-	K4A4G085WSB CPB	16-18-18-38	1.35	●	●
<b>Team</b>	TDRED432G3000HC16CQC01	32GB(8GB*4)	DS	-	K4A4G085WSB CPB	16-18-18-38	1.35	●	●
<b>Team</b>	TDGED432G3000HC16CQC01	32GB(8GB*4)	DS	-	K4A4G085WSB CPB	16-18-18-38	1.35	●	●
<b>Team</b>	TDPRD432G3000HC16CQC01	32GB(8GB*4)	DS	-	K4A4G085WSB CPB	16-18-18-38	1.35	●	●

<b>Team</b>	TDPGD432G3000HC16CQC01	32GB(8GB*4)	DS	-	K4A4G085WSB CPB	16-18-18-38	1.35	●	●
<b>Team</b>	THRD432G3000HC16CQC01	32GB(8GB*4)	DS	-	K4A4G085WSB CPB	16-18-18-38	1.35	●	●
<b>Team</b>	THWD432G3000HC16CQC01	32GB(8GB*4)	DS	-	K4A4G085WSB CPB	16-18-18-38	1.35	●	●
<b>Team</b>	THBD432G3000HC16CQC01	32GB(8GB*4)	DS	-	K4A4G085WSB CPB	16-18-18-38	1.35	●	●
<b>Team</b>	TDTRD432G3000HC16CQC01	32GB(8GB*4)	DS	-	K4A4G085WSB CPB	16-18-18-38	1.35	●	●
<b>Team</b>	TDTWD432G3000HC16CQC01	32GB(8GB*4)	DS	-	K4A4G085WSB CPB	16-18-18-38	1.35	●	●
<b>Team</b>	TDTBD432G3000HC16CQC01	32GB(8GB*4)	DS	-	K4A4G085WSB CPB	16-18-18-38	1.35	●	●
<b>Team</b>	TLRED416G3000HC16CDC01	16GB(8GB*2)	DS	-	K4A4G085WSB CPB	16-18-18-38	1.35	●	
<b>Team</b>	TLGD416G3000HC16CDC01	16GB(8GB*2)	DS	-	K4A4G085WSB CPB	16-18-18-38	1.35	●	
<b>Team</b>	TDRED416G3000HC16CDC01	16GB(8GB*2)	DS	-	K4A4G085WSB CPB	16-18-18-38	1.35	●	
<b>Team</b>	TDGED416G3000HC16CDC01	16GB(8GB*2)	DS	-	K4A4G085WSB CPB	16-18-18-38	1.35	●	
<b>Team</b>	TDPRD416G3000HC16CDC01	16GB(8GB*2)	DS	-	K4A4G085WSB CPB	16-18-18-38	1.35	●	
<b>Team</b>	TDPGD416G3000HC16CDC01	16GB(8GB*2)	DS	-	K4A4G085WSB CPB	16-18-18-38	1.35	●	
<b>Team</b>	THRD416G3000HC16CDC01	16GB(8GB*2)	DS	-	K4A4G085WSB CPB	16-18-18-38	1.35	●	
<b>Team</b>	THWD416G3000HC16CDC01	16GB(8GB*2)	DS	-	K4A4G085WSB CPB	16-18-18-38	1.35	●	
<b>Team</b>	THBD416G3000HC16CDC01	16GB(8GB*2)	DS	-	K4A4G085WSB CPB	16-18-18-38	1.35	●	
<b>Team</b>	TDTRD416G3000HC16CDC01	16GB(8GB*2)	DS	-	K4A4G085WSB CPB	16-18-18-38	1.35	●	
<b>Team</b>	TDTWD416G3000HC16CDC01	16GB(8GB*2)	DS	-	K4A4G085WSB CPB	16-18-18-38	1.35	●	
<b>Team</b>	TDTBD416G3000HC16CDC01	16GB(8GB*2)	DS	-	K4A4G085WSB CPB	16-18-18-38	1.35	●	
<b>Team</b>	TFWD416G3000C16CBK(XMP)	16GB	DS	Team	T4D10248HT-30	16-18-18-38	1.35	●	●
<b>Team</b>	TDPRD464G3000HC16CQC01	64GB(16GB*4)	DS	Team	T4D10248HT-30	16-18-18-38	1.35	●	●
<b>Team</b>	TDPGD464G3000HC16CQC01	64GB(16GB*4)	DS	Team	T4D10248HT-30	16-18-18-38	1.35	●	●
<b>Team</b>	THRD464G3000HC16CQC01	64GB(16GB*4)	DS	Team	T4D10248HT-30	16-18-18-38	1.35	●	●
<b>Team</b>	THWD464G3000HC16CQC01	64GB(16GB*4)	DS	Team	T4D10248HT-30	16-18-18-38	1.35	●	●
<b>Team</b>	THBD464G3000HC16CQC01	64GB(16GB*4)	DS	Team	T4D10248HT-30	16-18-18-38	1.35	●	●

Team	TDTRD464G3000HC16CQC01	64GB(16GB*4)	DS	Team	T4D10248HT-30	16-18-18-38	1.35	●	●
Team	TDTWD464G3000HC16CQC01	64GB(16GB*4)	DS	Team	T4D10248HT-30	16-18-18-38	1.35	●	●
Team	TDTBD464G3000HC16CQC01	64GB(16GB*4)	DS	Team	T4D10248HT-30	16-18-18-38	1.35	●	●
Team	TDPRD432G3000HC16CDC01	32GB(16GB*2)	DS	Team	T4D10248HT-30	16-18-18-38	1.35	●	●
Team	TDPGD432G3000HC16CDC01	32GB(16GB*2)	DS	Team	T4D10248HT-30	16-18-18-38	1.35	●	●
Team	THRD432G3000HC16CDC01	32GB(16GB*2)	DS	Team	T4D10248HT-30	16-18-18-38	1.35	●	●
Team	THWD432G3000HC16CDC01	32GB(16GB*2)	DS	Team	T4D10248HT-30	16-18-18-38	1.35	●	●
Team	THBD432G3000HC16CDC01	32GB(16GB*2)	DS	Team	T4D10248HT-30	16-18-18-38	1.35	●	●
Team	TDTRD432G3000HC16CDC01	32GB(16GB*2)	DS	Team	T4D10248HT-30	16-18-18-38	1.35	●	●
Team	TDTWD432G3000HC16CDC01	32GB(16GB*2)	DS	Team	T4D10248HT-30	16-18-18-38	1.35	●	●
Team	TDTBD432G3000HC16CDC01	32GB(16GB*2)	DS	Team	T4D10248HT-30	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)		
								2 DIMM	4 DIMM	8 DIMM
								G.SKILL	F4-3200C15Q-32GTZSW	32GB(8GB*4)
G.SKILL	F4-3200C15Q-32GTZKK	32GB(8GB*4)	SS			15-15-15-35	1.35V	●	●	
G.SKILL	F4-3200C15Q-32GTZR	32GB(8GB*4)	SS			15-15-15-35	1.35V	●	●	
G.SKILL	F4-3200C14Q-32GTZSW	32GB(8GB*4)	SS			14-14-14-34	1.35V	●	●	
G.SKILL	F4-3200C14Q-32GTZKK	32GB(8GB*4)	SS			14-14-14-34	1.35V	●	●	
G.SKILL	F4-3200C14Q-32GTZR	32GB(8GB*4)	SS			14-14-14-34	1.35V	●	●	
G.SKILL	F4-3200C15Q-64GTZSW	64GB(16GB*4)	DS			15-15-15-35	1.35V	●	●	
G.SKILL	F4-3200C15Q-64GTZKK	64GB(16GB*4)	DS			15-15-15-35	1.35V	●	●	
G.SKILL	F4-3200C15Q-64GTZR	64GB(16GB*4)	DS			15-15-15-35	1.35V	●	●	
G.SKILL	F4-3200C15Q-64GTZSW	64GB(16GB*4)	DS			15-15-15-35	1.35V	●	●	
G.SKILL	F4-3200C15Q-64GTZKK	64GB(16GB*4)	DS			15-15-15-35	1.35V	●	●	
G.SKILL	F4-3200C15Q-64GTZR	64GB(16GB*4)	DS			15-15-15-35	1.35V	●	●	
G.SKILL	F4-3200C14Q-64GTZSW	64GB(16GB*4)	DS			14-14-14-34	1.35V	●	●	
G.SKILL	F4-3200C14Q-64GTZKK	64GB(16GB*4)	DS			14-14-14-34	1.35V	●	●	
G.SKILL	F4-3200C14Q-64GTZR	64GB(16GB*4)	DS			14-14-14-34	1.35V	●	●	
G.SKILL	F4-3200C15Q2-64GTZSW	64GB(8GB*8)	SS			15-15-15-35	1.35V	●	●	●
G.SKILL	F4-3200C15Q2-64GTZKK	64GB(8GB*8)	SS			15-15-15-35	1.35V	●	●	●
G.SKILL	F4-3200C15Q2-64GTZR	64GB(8GB*8)	SS			15-15-15-35	1.35V	●	●	●
G.SKILL	F4-3200C14Q2-64GTZSW	64GB(8GB*8)	SS			14-14-14-34	1.35V	●	●	●
G.SKILL	F4-3200C14Q2-64GTZKK	64GB(8GB*8)	SS			14-14-14-34	1.35V	●	●	●
G.SKILL	F4-3200C14Q2-64GTZR	64GB(8GB*8)	SS			14-14-14-34	1.35V	●	●	●
G.SKILL	F4-3200C15Q2-128GTZSW	128GB(16GB*8)	DS			15-15-15-35	1.35V	●	●	●
G.SKILL	F4-3200C15Q2-128GTZKK	128GB(16GB*8)	DS			15-15-15-35	1.35V	●	●	●
G.SKILL	F4-3200C15Q2-128GTZR	128GB(16GB*8)	DS			15-15-15-35	1.35V	●	●	●

<b>G.SKILL</b>	F4-3200C14Q2-128GTZSW	128GB(16GB*8)	DS	14-14-14-34	1.35V	●	●	●
<b>G.SKILL</b>	F4-3200C14Q2-128GTZKK	128GB(16GB*8)	DS	14-14-14-34	1.35V	●	●	●
<b>G.SKILL</b>	F4-3200C14Q2-128GTZR	128GB(16GB*8)	DS	14-14-14-34	1.35V	●	●	●
<b>CORSAIR</b>	CMK16GX4M4B3200C14	16GB(4GB*4)	SS	14-16-16-36	1.35V	●	●	
<b>CORSAIR</b>	CMK16GX4M4C3200C14	16GB(4GB*4)	SS	14-16-16-36	1.35V	●	●	
<b>CORSAIR</b>	CMD16GX4M4B3200C14	16GB(4GB*4)	SS	14-16-16-36	1.35V	●	●	
<b>CORSAIR</b>	CMK16GX4M4B3200C15	16GB(4GB*4)	SS	15-17-17-35	1.35V	●	●	
<b>CORSAIR</b>	CMK16GX4M4C3200C15	16GB(4GB*4)	SS	15-17-17-35	1.35V	●	●	
<b>CORSAIR</b>	CMD16GX4M4B3200C15	16GB(4GB*4)	SS	15-17-17-35	1.35V	●	●	
<b>CORSAIR</b>	CMD16GX4M4C3200C15	16GB(4GB*4)	SS	15-17-17-35	1.35V	●	●	
<b>CORSAIR</b>	CMK16GX4M4B3200C15R	16GB(4GB*4)	SS	15-17-17-35	1.35V	●	●	
<b>CORSAIR</b>	CMK16GX4M4B3200C16	16GB(4GB*4)	SS	16-18-18-36	1.35V	●	●	
<b>CORSAIR</b>	CMK16GX4M4C3200C16	16GB(4GB*4)	SS	16-18-18-36	1.35V	●	●	
<b>CORSAIR</b>	CMD16GX4M4B3200C16	16GB(4GB*4)	SS	16-18-18-36	1.35V	●	●	
<b>CORSAIR</b>	CMD16GX4M4C3200C16	16GB(4GB*4)	SS	16-18-18-36	1.35V	●	●	
<b>CORSAIR</b>	CMK16GX4M4B3200C16R	16GB(4GB*4)	SS	16-18-18-36	1.35V	●	●	
<b>CORSAIR</b>	CMK16GX4M4C3200C16R	16GB(4GB*4)	SS	16-18-18-36	1.35V	●	●	
<b>CORSAIR</b>	CMD16GX4M4B3200C16R	16GB(4GB*4)	SS	16-18-18-36	1.35V	●	●	
<b>CORSAIR</b>	CMD32GX4M4C3200C14M	32GB(8GB*4)	SS	14-16-16-36	1.35V	●	●	
<b>CORSAIR</b>	CMK32GX4M4B3200C14R	32GB(8GB*4)	SS	14-16-16-36	1.35V	●	●	
<b>CORSAIR</b>	CMK32GX4M4B3200C15	32GB(8GB*4)	SS	15-17-17-35	1.35V	●	●	
<b>CORSAIR</b>	CMD32GX4M4B3200C15	32GB(8GB*4)	SS	15-17-17-36	1.35V	●	●	
<b>CORSAIR</b>	CMK32GX4M4B3200C16	32GB(8GB*4)	SS	16-18-18-36	1.35V	●	●	
<b>CORSAIR</b>	CMK32GX4M4D3200C16	32GB(8GB*4)	SS	16-18-18-36	1.35V	●	●	
<b>CORSAIR</b>	CMK32GX4M4E3200C16	32GB(8GB*4)	SS	16-18-18-36	1.35V	●	●	
<b>CORSAIR</b>	CMR32GX4M4C3200C16	32GB(8GB*4)	SS	16-18-18-36	1.35V	●	●	
<b>CORSAIR</b>	CMR32GX4M4D3200C16	32GB(8GB*4)	SS	16-18-18-36	1.35V	●	●	
<b>CORSAIR</b>	CMD32GX4M4B3200C16	32GB(8GB*4)	SS	16-18-18-36	1.35V	●	●	
<b>CORSAIR</b>	CMU32GX4M4C3200C16	32GB(8GB*4)	SS	16-18-18-36	1.35V	●	●	
<b>CORSAIR</b>	CMU32GX4M4C3200C16B	32GB(8GB*4)	SS	16-18-18-36	1.35V	●	●	
<b>CORSAIR</b>	CMU32GX4M4C3200C16R	32GB(8GB*4)	SS	16-18-18-36	1.35V	●	●	
<b>CORSAIR</b>	CMK32GX4M4C3200C16S	32GB(8GB*4)	SS	16-18-18-36	1.35V	●	●	
<b>CORSAIR</b>	CMK32GX4M4B3200C16W	32GB(8GB*4)	SS	16-18-18-36	1.35V	●	●	
<b>CORSAIR</b>	CMK64GX4M4B3200C16	64GB(16GB*4)	DS	16-18-18-36	1.35V	●	●	
<b>CORSAIR</b>	CMK64GX4M4C3200C16	64GB(16GB*4)	DS	16-18-18-36	1.35V	●	●	
<b>CORSAIR</b>	CMR64GX4M4C3200C16	64GB(16GB*4)	DS	16-18-18-36	1.35V	●	●	
<b>CORSAIR</b>	CMD64GX4M4B3200C16	64GB(16GB*4)	DS	16-18-18-36	1.35V	●	●	
<b>CORSAIR</b>	CMD64GX4M4C3200C16	64GB(16GB*4)	DS	16-18-18-36	1.35V	●	●	
<b>CORSAIR</b>	CMU64GX4M4C3200C16	64GB(16GB*4)	DS	16-18-18-36	1.35V	●	●	
<b>CORSAIR</b>	CMU64GX4M4C3200C16B	64GB(16GB*4)	DS	16-18-18-36	1.35V	●	●	
<b>CORSAIR</b>	CMU64GX4M4C3200C16R	64GB(16GB*4)	DS	16-18-18-36	1.35V	●	●	
<b>CORSAIR</b>	CMU64GX4M4C3200C16R	64GB(16GB*4)	DS	16-18-18-36	1.35V	●	●	



<b>CORSAIR</b>	CMD64GX4M8B3200C16	64GB(8GB*8)	SS			16-18-18-36	1.35V	•	•	•
<b>CORSAIR</b>	CMK64GX4M8B3200C16	64GB(8GB*8)	SS			16-18-18-36	1.35V	•	•	•
<b>CORSAIR</b>	CMK128GX4M8B3200C16	128GB(16GB*8)	DS			16-18-18-36	1.35V	•	•	•
<b>CORSAIR</b>	CMD128GX4M8B3200C16	128GB(16GB*8)	DS			16-18-18-36	1.35V	•	•	•
<b>Kingston</b>	HX432C16PB3K4/16	16GB(4GB*4)	SS			16-18-18-36	1.35V	•	•	
<b>Kingston</b>	HX432C16PB3K4/32	32GB(8GB*4)	SS			16-18-18-36	1.35V	•	•	
<b>NEO FORZA</b>	NFMUD480E8-3200DH2A	64GB(8GB*8)	SS			16-18-18-36	1.35V	•	•	•
<b>NEO FORZA</b>	NFMUD416E8-3200DH2A	128GB(16GB*8)	DS			16-18-18-36	1.35V	•	•	•
<b>SUPER TALENT</b>	F3200UA4G	32GB(4GB*8)	SS			17-19-19-39	1.35V	•	•	•
<b>SUPER TALENT</b>	F3200UB16G	128GB(16GB*8)	DS			16-18-18-36	1.35V	•	•	•
<b>Hyper X</b>	HX432C18FB2K2/16	16GB(8GB*2)	SS	Micron		18-21-21-39	1.2V	•	•	
<b>Hyper X</b>	HX432C18FBK2/32	32GB(16GB*2)	DS	Micron		18-21-21-39	1.2V	•	•	
<b>Hyper X</b>	HX432C16PB3K4/32	32GB(8GB*4)	SS	Micron	-	16-18-18-36	1.35V	•	•	
<b>FORZA</b>	NFMUD480E8-3200DH2A	16GB(8GB*2)	SS	-	-	16-18-18-36	1.35V	•	•	
<b>ADATA</b>	AX4U320038G16-BRS	8GB	SS	Samsung	-	16-18-18-36	1.35V	•	•	
<b>APACER</b>	AHU08GGB32CKU7M	8GB	SS	Samsung		16-18-18-38	1.35V	•	•	
<b>ZADAK</b>	ZD4-SHA3200C16-08GAS	8GB	SS	Samsung		16-18-18-38	1.35V	•	•	
<b>KINGMAX</b>	GZOG43F-18SIGP	8GB	SS			16-18-18-38	1.35V	•	•	
<b>V-COLOR</b>	TL48G32S8CRGB16	8GB	SS	Samsung		16-18-18-38	1.35V	•	•	
<b>KLEVV</b>	IM48GU88A32-GIISEZ	32GB(8GB*4)	DS	SK Hynix	-	16-18-18-38	1.35V	•	•	

### DDR4 3333 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/ DS	Chip Brand	Chip NO.	Timing	Volta ge	DIMM socket support (Option al)		
								2 DIMM	4 DIMM	8 DIMM
<b>CORSAIR</b>	CMK16GX4M4B3333C16	16GB(4GB*4)	SS			16-18-18-36	1.35V	•	•	
<b>CORSAIR</b>	CMD16GX4M4B3333C16	16GB(4GB*4)	SS			16-18-18-36	1.35V	•	•	
<b>CORSAIR</b>	CMK16GX4M4B3333C16R	16GB(4GB*4)	SS			16-18-18-36	1.35V	•	•	
<b>CORSAIR</b>	CMK32GX4M4B3333C16	32GB(8GB*4)	SS			16-18-18-36	1.35V	•	•	
<b>CORSAIR</b>	CMR32GX4M4C3333C16	32GB(8GB*4)	SS			16-18-18-36	1.35V	•	•	
<b>CORSAIR</b>	CMD32GX4M4B3333C16	32GB(8GB*4)	SS			16-18-18-36	1.35V	•	•	
<b>CORSAIR</b>	CMK64GX4M4B3333C16	64GB(16GB*4)	DS			16-18-18-36	1.35V	•	•	
<b>CORSAIR</b>	CMR64GX4M4C3333C16	64GB(16GB*4)	DS			16-18-18-36	1.35V	•	•	
<b>CORSAIR</b>	CMD64GX4M4B3333C16	64GB(16GB*4)	DS			16-18-18-36	1.35V	•	•	
<b>CORSAIR</b>	CMK64GX4M4B3333C16R	64GB(16GB*4)	DS			16-18-18-36	1.35V	•	•	
<b>CORSAIR</b>	CMK64GX4M8B3333C16	64GB(8GB*8)	SS			16-18-18-36	1.35V	•	•	•
<b>CORSAIR</b>	CMD64GX4M8B3333C16	64GB(8GB*8)	SS			16-18-18-36	1.35V	•	•	•
<b>CORSAIR</b>	CMK128GX4M8B3333C16	128GB(16GB*8)	DS			16-18-18-36	1.35V	•	•	•
<b>Kingston</b>	HX433C16PB3K2/16	16GB(8GB*2)	SS			16-18-18-36	1.35V	•		

<b>Hyper X</b>	HX433C16PB3K4/32	32GB(8GB*4)	SS	Sk Hynix	-	16-18-18-36	1.35V	•	•
<b>Hyper X</b>	HX433C16PB3K2/16	16GB(8GB*2)	SS	Sk Hynix	-	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)		
								2 DIMM	4 DIMM	8 DIMM
								<b>CORSAIR</b>	CMK32GX4M4B3400C16	32GB(8GB*4)
<b>CORSAIR</b>	CMK32GX4M4C3400C16	32GB(8GB*4)	SS			16-18-18-36	1.35V	•	•	
<b>CORSAIR</b>	CMR32GX4M4C3400C16	32GB(8GB*4)	SS			16-18-18-36	1.35V	•	•	
<b>CORSAIR</b>	CMU32GX4M4B3400C16	32GB(8GB*4)	SS			16-18-18-36	1.35V	•	•	
<b>CORSAIR</b>	CMU32GX4M4C3400C16	32GB(8GB*4)	SS			16-18-18-36	1.35V	•	•	
<b>CORSAIR</b>	CMK32GX4M4C3400C16R	32GB(8GB*4)	SS			16-18-18-36	1.35V	•	•	
<b>CORSAIR</b>	CMU32GX4M4B3400C16R	32GB(8GB*4)	SS			16-18-18-36	1.35V	•	•	
<b>CORSAIR</b>	CMU32GX4M4C3400C16R	32GB(8GB*4)	SS			16-18-18-36	1.35V	•	•	
<b>CORSAIR</b>	CMK16GX4M4B3400C16	16GB(4GB*4)	SS			16-18-18-36	1.35V	•	•	
<b>CORSAIR</b>	CMD16GX4M4B3400C16	16GB(4GB*4)	SS			16-18-18-36	1.35V	•	•	
<b>CORSAIR</b>	CMK64GX4M8B3400C16	64GB(8GB*8)	SS			16-18-18-36	1.35V	•	•	•
<b>CORSAIR</b>	CMK64GX4M8B3400C16R	64GB(8GB*8)	SS			16-18-18-36	1.35V	•	•	•

### DDR4 3466 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	DIMM socket support (Optional)		
								2 DIMM	4 DIMM	8 DIMM
								<b>G.SKILL</b>	F4-3466C16Q-32GTZSW	32GB(8GB*4)
<b>G.SKILL</b>	F4-3466C16Q-32GTZKK	32GB(8GB*4)	SS			16-18-18-38	1.35V	•	•	
<b>G.SKILL</b>	F4-3466C16Q-32GTZR	32GB(8GB*4)	SS			16-18-18-38	1.35V	•	•	
<b>G.SKILL</b>	F4-3466C16Q-64GTZSW	64GB(16GB*4)	DS			16-18-18-38	1.35V	•	•	
<b>G.SKILL</b>	F4-3466C16Q-64GTZKK	64GB(16GB*4)	DS			16-18-18-38	1.35V	•	•	
<b>G.SKILL</b>	F4-3466C16Q-64GTZR	64GB(16GB*4)	DS			16-18-18-38	1.35V	•	•	
<b>G.SKILL</b>	F4-3466C16Q2-64GTZSW	64GB(8GB*8)	SS			16-18-18-38	1.35V	•	•	•
<b>G.SKILL</b>	F4-3466C16Q2-64GTZKK	64GB(8GB*8)	SS			16-18-18-38	1.35V	•	•	•
<b>G.SKILL</b>	F4-3466C16Q2-64GTZR	64GB(8GB*8)	SS			16-18-18-38	1.35V	•	•	•
<b>G.SKILL</b>	F4-3466C16Q2-128GTZSW	128GB(16GB*8)	DS			16-18-18-38	1.35V	•	•	•
<b>G.SKILL</b>	F4-3466C16Q2-128GTZKK	128GB(16GB*8)	DS			16-18-18-38	1.35V	•	•	•
<b>G.SKILL</b>	F4-3466C16Q2-128GTZR	128GB(16GB*8)	DS			16-18-18-38	1.35V	•	•	•
<b>CORSAIR</b>	CMK16GX4M4B3466C16	16GB(4GB*4)	SS			16-18-18-36	1.35V	•	•	

<b>CORSAIR</b>	CMK16GX4M4B3466C16R	16GB(4GB*4)	SS			16-18-18-36	1.35V	•	•	
<b>CORSAIR</b>	CMK32GX4M4B3466C16	32GB(8GB*4)	SS			16-18-18-36	1.35V	•	•	
<b>CORSAIR</b>	CMR32GX4M4C3466C16	32GB(8GB*4)	SS			16-18-18-36	1.35V	•	•	
<b>CORSAIR</b>	CMD32GX4M4B3466C16	32GB(8GB*4)	SS			16-18-18-36	1.35V	•	•	
<b>CORSAIR</b>	CMU32GX4M4C3466C16	32GB(8GB*4)	SS			16-18-18-36	1.35V	•	•	
<b>CORSAIR</b>	CMK32GX4M4B3466C16R	32GB(8GB*4)	SS			16-18-18-36	1.35V	•	•	
<b>CORSAIR</b>	CMU32GX4M4C3466C16R	32GB(8GB*4)	SS			16-18-18-36	1.35V	•	•	
<b>CORSAIR</b>	CMK64GX4M4B3466C16	64GB(16GB*4)	DS			16-18-18-36	1.35V	•	•	
<b>CORSAIR</b>	CMR64GX4M4C3466C16	64GB(16GB*4)	DS			16-18-18-36	1.35V	•	•	
<b>CORSAIR</b>	CMD64GX4M4B3466C16	64GB(16GB*4)	DS			16-18-18-36	1.35V	•	•	
<b>CORSAIR</b>	CMK64GX4M4B3466C16R	64GB(16GB*4)	DS			16-18-18-36	1.35V	•	•	
<b>CORSAIR</b>	CMW64GX4M8C3466C16 ver4.31	64GB(8GB*8)	SS	Samsung	-	16-18-18-36	1.35V	•	•	•
<b>Hyper X</b>	HX434C19FB2K2/16	16GB(8GB*2)	SS	Micron		19-23-23-42	1.2V	•	•	
<b>Hyper X</b>	HX434C19FBK2/32	32GB(16GB*2)	DS	Micron		19-23-23-42	1.2V	•	•	

### DDR4 3600 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/ DS	Chip Brand	Chip NO.	Timing	Volta ge	DIMM socket support (Option al)		
								2 DIMM	4 DIMM	8 DIMM
								<b>G.SKILL</b>	F4-3600C19D-32GSXW	32GB(16GB*2)
<b>G.SKILL</b>	F4-3600C19D-32GSXK	32GB(16GB*2)	DS	Sk Hynix	-	19-19-19-39	1.35V	•	•	
<b>G.SKILL</b>	F4-3600C19D-32GSXF	32GB(16GB*2)	DS	Sk Hynix	-	19-19-19-39	1.35V	•	•	
<b>G.SKILL</b>	F4-3600C19D-32GSXWB	32GB(16GB*2)	DS	Sk Hynix	-	19-20-20-39	1.35V	•	•	
<b>G.SKILL</b>	F4-3600C19D-32GSXKB	32GB(16GB*2)	DS	Sk Hynix	-	19-20-20-39	1.35V	•	•	
<b>G.SKILL</b>	F4-3600C19D-32GTRG	32GB(16GB*2)	DS	Sk Hynix	-	19-20-20-39	1.35V	•	•	
<b>G.SKILL</b>	F4-3600C19D-32GTRS	32GB(16GB*2)	DS	Sk Hynix	-	19-20-20-39	1.35V	•	•	
<b>G.SKILL</b>	F4-3600C16Q-32GTZSW	32GB(8GB*4)	SS			16-16-16-36	1.35V	•	•	
<b>G.SKILL</b>	F4-3600C16Q-32GTZKK	32GB(8GB*4)	SS			16-16-16-36	1.35V	•	•	
<b>G.SKILL</b>	F4-3600C16Q-32GTZR	32GB(8GB*4)	SS			16-16-16-36	1.35V	•	•	
<b>G.SKILL</b>	F4-3600C19Q-64GSXW	64GB(16GB*4)	DS	Sk Hynix	-	19-19-19-39	1.35V	•	•	•
<b>G.SKILL</b>	F4-3600C19Q-64GSXK	64GB(16GB*4)	DS	Sk Hynix	-	19-19-19-39	1.35V	•	•	•
<b>G.SKILL</b>	F4-3600C19Q-64GSXF	64GB(16GB*4)	DS	Sk Hynix	-	19-19-19-39	1.35V	•	•	•
<b>G.SKILL</b>	F4-3600C19Q-64GSXWB	64GB(16GB*4)	DS	Sk Hynix	-	19-20-20-39	1.35V	•	•	•
<b>G.SKILL</b>	F4-3600C19Q-64GSXKB	64GB(16GB*4)	DS	Sk Hynix	-	19-20-20-39	1.35V	•	•	•
<b>G.SKILL</b>	F4-3600C19Q-64GTRG	64GB(16GB*4)	DS	Sk Hynix	-	19-20-20-39	1.35V	•	•	•
<b>G.SKILL</b>	F4-3600C19Q-64GTRS	64GB(16GB*4)	DS	Sk Hynix	-	19-20-20-39	1.35V	•	•	•
<b>G.SKILL</b>	F4-3600C16Q2-64GTZSW	64GB(8GB*8)	SS			16-16-16-36	1.35V	•	•	•
<b>G.SKILL</b>	F4-3600C16Q2-64GTZKK	64GB(8GB*8)	SS			16-16-16-36	1.35V	•	•	•
<b>G.SKILL</b>	F4-3600C16Q2-64GTZR	64GB(8GB*8)	SS			16-16-16-36	1.35V	•	•	•

<b>G.SKILL</b>	F4-3600C17Q2-128GTZSW	128GB(16GB*8)	DS			17-19-19-39	1.35V	●	●	●
<b>G.SKILL</b>	F4-3600C17Q2-128GTZKK	128GB(16GB*8)	DS			17-19-19-39	1.35V	●	●	●
<b>G.SKILL</b>	F4-3600C17Q2-128GTZR	128GB(16GB*8)	DS			17-19-19-39	1.35V	●	●	●
<b>CORSAIR</b>	CMK16GX4M4B3600C18	16GB(4GB*4)	SS			18-19-19-39	1.35V	●	●	
<b>CORSAIR</b>	CMD16GX4M4B3600C18	16GB(4GB*4)	SS			18-19-19-39	1.35V	●	●	
<b>CORSAIR</b>	CMD32GX4M4B3600C16	32GB(8GB*4)	SS			16-18-18-36	1.35V	●	●	
<b>CORSAIR</b>	CMK32GX4M4B3600C16R	32GB(8GB*4)	SS			16-18-18-36	1.35V	●	●	
<b>CORSAIR</b>	CMK32GX4M4B3600C18	32GB(8GB*4)	SS			18-19-19-39	1.35V	●	●	
<b>CORSAIR</b>	CMR32GX4M4C3600C18	32GB(8GB*4)	SS			16-18-18-36	1.35V	●	●	
<b>CORSAIR</b>	CMK32GX4M4B3600C18R	32GB(8GB*4)	SS			18-19-19-39	1.35V	●	●	
<b>CORSAIR</b>	CMK64GX4M4B3600C18	64GB(16GB*4)	DS			18-19-19-39	1.35V	●	●	
<b>CORSAIR</b>	CMK64GX4M8X3600C18	64GB(8GB*8)	SS			18-19-19-39	1.35V	●	●	●
<b>CORSAIR</b>	CMR64GX4M8X3600C18	64GB(8GB*8)	SS			18-19-19-39	1.35V	●	●	●
<b>CORSAIR</b>	CMW64GX4M8X3600C18 ver4.31	64GB(8GB*8)	SS	Samsung	-	18-19-19-39	1.35V	●	●	●
<b>CORSAIR</b>	CMK128GX4M8X3600C18	128GB(16GB*8)	DS			18-19-19-39	1.35V	●	●	●
<b>CORSAIR</b>	CMR128GX4M8X3600C18	128GB(16GB*8)	DS			18-19-19-39	1.35V	●	●	●
<b>ZADAK</b>	ZD4-SHD3600C17-08GAS	8GB	SS	Samsung		17-19-19-39	1.35V	●	●	
<b>ADATA</b>	AX4U360038G17-BR80	8GB	SS	Samsung		17-18-18-38	1.35V	●	●	
<b>Kingston</b>	HX436C17PB3K4/32	32GB(8GB*4)	SS			17-18-18-39	1.35V	●	●	
<b>Hyper X</b>	HX436C17PB3K2/32	32GB(16GB*2)	DS	Samsung		17-19-19-39	1.35V	●	●	
<b>Hyper X</b>	HX436C17PB3K2/32	32GB(16GB*2)	DS	Sk Hynix		17-19-19-39	1.35V	●	●	
<b>Hyper X</b>	HX436C17PB3K4/32	32GB(8GB*4)	SS	Samsung		17-18-18-38	1.35V	●	●	●
<b>Hyper X</b>	HX436C17PB3AK4/32	32GB(8GB*4)	SS	Samsung		17-18-18-39	1.35V	●	●	●
<b>Hyper X</b>	HX436C17PB3K4/64	64GB(16GB*4)	DS	Samsung		17-19-19-39	1.35V	●	●	
<b>Hyper X</b>	HX436C17PB3K4/64	64GB(16GB*4)	DS	Sk Hynix		17-19-19-39	1.35V	●	●	

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

Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	DIMM socket support (Optional)		
								2 DIMM	4 DIMM	8 DIMM
<b>G.SKILL</b>	F4-3733C17Q2-64GTZSW	64GB(8GB*8)	SS	Samsung		17-17-17-37	1.35V			●
<b>G.SKILL</b>	F4-3733C17Q2-64GTZKK	64GB(8GB*8)	SS	Samsung		17-17-17-37	1.35V			●
<b>G.SKILL</b>	F4-3733C17Q2-64GTZR	64GB(8GB*8)	SS	Samsung		17-17-17-37	1.35V			●
<b>G.SKILL</b>	F4-3733C18Q2-128GTZSW	128GB(16GB*8)	DS	Samsung		18-19-19-39	1.35V			●
<b>G.SKILL</b>	F4-3733C18Q2-128GTZKK	128GB(16GB*8)	DS	Samsung		18-19-19-39	1.35V			●
<b>G.SKILL</b>	F4-3733C18Q2-128GTZR	128GB(16GB*8)	DS	Samsung		18-19-19-39	1.35V			●
<b>SUPER TALENT</b>	F3733UA8G	64GB(8GB*8)	SS	Samsung		17-19-19-39	1.35V			●

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

Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	DIMM socket support (Optional)		
								2 DIMM	4 DIMM	8 DIMM
<b>G.SKILL</b>	F4-3800C18Q2-64GTZSW	64GB(8GB*8)	SS	Samsung		18-18-18-38	1.35V			●
<b>G.SKILL</b>	F4-3800C18Q2-64GTZKK	64GB(8GB*8)	SS	Samsung		18-18-18-38	1.35V			●
<b>G.SKILL</b>	F4-3800C18Q2-64GTZR	64GB(8GB*8)	SS	Samsung		18-18-18-38	1.35V			●
<b>G.SKILL</b>	F4-3800C19Q2-128GTZSW	128GB(16GB*8)	DS	Samsung		19-19-19-39	1.35V			●
<b>G.SKILL</b>	F4-3800C19Q2-128GTZKK	128GB(16GB*8)	DS	Samsung		19-19-19-39	1.35V			●
<b>G.SKILL</b>	F4-3800C19Q2-128GTZR	128GB(16GB*8)	DS	Samsung		19-19-19-39	1.35V			●
<b>CORSAIR</b>	CMK64GX4M8X3800C19	64GB(8GB*8)	SS	Samsung		19-19-19-39	1.35V			●
<b>CORSAIR</b>	CMR64GX4M8X3800C19	64GB(8GB*8)	SS	Samsung		19-19-19-39	1.35V			●
<b>CORSAIR</b>	CMK128GX4M8X3800C19	128GB(16GB*8)	DS	Samsung		19-19-19-39	1.35V			●
<b>CORSAIR</b>	CMR128GX4M8X3800C19	128GB(16GB*8)	DS	Samsung		19-19-19-39	1.35V			●

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

Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	DIMM socket support (Optional)		
								2 DIMM	4 DIMM	8 DIMM
<b>G.SKILL</b>	F4-4000C18Q2-64GTZSW	64GB(8GB*8)	SS	Samsung		18-19-19-39	1.35V			●
<b>G.SKILL</b>	F4-4000C18Q2-64GTZKK	64GB(8GB*8)	SS	Samsung		18-19-19-39	1.35V			●
<b>G.SKILL</b>	F4-4000C18Q2-64GTZR	64GB(8GB*8)	SS	Samsung		18-19-19-39	1.35V			●
<b>G.SKILL</b>	F4-4000C19Q2-128GTZR	128GB(16GB*8)	SS	Samsung	-	19-19-19-39	1.35V			●
<b>CORSAIR</b>	CMK64GX4M8X4000C19	64GB(8GB*8)	SS	Samsung		19-23-23-45	1.35V			●
<b>CORSAIR</b>	CMR64GX4M8X4000C19	64GB(8GB*8)	SS	Samsung		19-23-23-45	1.35V			●
<b>CORSAIR</b>	CMW64GX4M8X4000C19 ver4.31	64GB(8GB*8)	SS	Samsung	-	19-23-23-45	1.35V			●
<b>Hyper X</b>	HX440C19PB3AK2/16	16GB(8GB*2)	SS	Samsung		19-21-21-42	1.35V	●	●	●

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

Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	DIMM socket support (Optional)		
								2 DIMM	4 DIMM	8 DIMM
<b>G.SKILL</b>	F4-4133C19Q2-64GTZSWE	64GB(8GB*8)	SS	Samsung		19-19-19-39	1.4V			●
<b>G.SKILL</b>	F4-4133C19Q2-64GTZKKE	64GB(8GB*8)	SS	Samsung		19-19-19-39	1.4V			●

<b>CORSAIR</b>	CMK64GX4M8X4133C19	64GB(8GB*8)	SS	Samsung		19-25-25-45	1.4V			•
<b>CORSAIR</b>	CMR64GX4M8X4133C19	64GB(8GB*8)	SS	Samsung		19-25-25-45	1.4V			•

### DDR4 4200 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	DIMM socket support (Optional)		
								2 DIMM	4 DIMM	8 DIMM
<b>G.SKILL</b>	F4-4200C19Q2-64GTZSW	64GB(8GB*8)	SS	Samsung		19-19-19-39	1.4V			•
<b>G.SKILL</b>	F4-4200C19Q2-64GTZKK	64GB(8GB*8)	SS	Samsung		19-19-19-39	1.4V			•
<b>CORSAIR</b>	CMK64GX4M8X4200C19	64GB(8GB*8)	SS	Samsung		19-26-26-46	1.45V			•

### DDR4 4266 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	DIMM socket support (Optional)		
								2 DIMM	4 DIMM	8 DIMM
<b>G.SKILL</b>	F4-4266C19Q2-64GTZKKB	64GB(8GB*8)	SS	Samsung	-	19-19-19-39	1.4V			•
<b>G.SKILL</b>	F4-4266C18Q2-64GTRG	64GB(8GB*8)	SS	Samsung	-	18-22-22-42	1.4V			•
<b>CORSAIR</b>	CMK64GX4M8X4266C19 ver4.31	64GB(8GB*8)	SS	Samsung	-	19-26-26-46	1.45V			•