

X299-Skylake-X

DDR4 2133 Qualified Vendors List (QVL)									
Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	DIMM socket support (Optional)	
								2 DIMM	4 DIMM
Apacer	78.B1GM3.AF00B	16GB (4x 4GB)	DS	SK Hynix	H5AN4G8NMFRFTFC	15-15-15-36	1.2	•	•
Apacer	78.C1GM3.AF10B	32GB (4x 8GB)	SS	SK Hynix	H5AN4G8NMFRFTFC	15-15-15-36	1.2	•	•
Apacer	AHU08GGB13CGT7G (EK.08G2R.KDC)	8GB	DS	Apacer	-	15-15-15-36	1.2	•	
Apacer	AHU08GGB13CGU7G (EK.08G2R.GDC)	8GB	SS	Apacer	-	15-15-15-36	1.2	•	
Apacer	AU08GGB13CDYBGC (EL.08G2R.GDM)	8GB		Apacer	-	15-15-15-36	1.2	•	
CENTURY MICRO INC	CD8G-D4U2133	8GB	DS	SK Hynix	H5AN4G8NMFRFTFC	15-15-15-36	-	•	•
CENTURY MICRO INC	CK8GX4-D4U2133	32GB (4x 8GB)	DS	SK hynix	H5AN4G8NMFRFTFC	15-15-15-35	1.2	•	•
CORSAIR	CMD16GX4M4B2133C10(Ver3.20)(XMP)	16GB (4x 4GB)	SS	-	-	10-12-12-31	1.35	•	•
CORSAIR	CMD16GX4M4B2133C10(Ver3.20)(XMP)	16GB (4x 4GB)	SS	-	-	10-12-12-31	1.35	•	•
CORSAIR	CMK16GX4M4A2133C13(Ver4.23)(XMP)	16GB (4x 4GB)	SS	-	-	13-15-15-28	1.2	•	•
CORSAIR	CMK32GX4M2A2133C13(Ver4.31)(XMP)	32GB (2x 16GB)	DS	-	-	13-15-15-28	1.2	•	•
CORSAIR	CMK32GX4M4A2133C13(Ver4.23)(XMP)	32GB (4x 8GB)	DS	-	-	13-15-15-28	1.2	•	•
CORSAIR	CMK32GX4M4A2133C15(Ver3.20)	32GB (4x 8GB)	DS	-	-	15-15-15-36	1.2	•	•
CORSAIR	CMK32GX4M4A2133C15(Ver5.29)	32GB (4x 8GB)	DS	-	-	15-15-15-36	1.2	•	•
CORSAIR	CMK64GX4M8A2133C13(Ver3.20)(XMP)	64GB (8x 8GB)	DS	-	-	13-15-15-28	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	D9TBH	15-15-15-36	1.2	•	•
crucial	CT4G4DFS8213.8FA2	4GB	SS	Micron	D9RGQ	15-15-15-36	1.2	•	•
crucial	CT4G4DFS8213.8FB1	4GB	SS	-	-	15-15-15-36	1.2	•	•
crucial	CT8G4DFS8213.8FB1	8GB	SS	-	-	15-15-15-36	1.2	•	•
Foxtconn	FEU4GN51208JC2133F	4GB	SS	Nanya	NT5AD512M8B1-FM	15-15-15-36	-	•	•
G.SKILL	F4-2133C15Q-16GRR	16GB (4x 4GB)	SS	-	-	15-15-15-35	1.2	•	•
G.SKILL	F4-2133C15Q-16GVR	16GB (4x 4GB)	SS	-	-	15-15-15-35	1.2	•	•
G.SKILL	F4-2133C15Q-16GVB	16GB (4x 4GB)	SS	-	-	15-15-15-35	1.2	•	•
G.SKILL	F4-2133C15Q-16GVG	16GB (4x 4GB)	SS	-	-	15-15-15-35	1.2	•	•
G.SKILL	F4-2133C15Q-16GVK	16GB (4x 4GB)	SS	-	-	15-15-15-35	1.2	•	•
G.SKILL	F4-2133C15Q-16GVS	16GB (4x 4GB)	SS	-	-	15-15-15-35	1.2	•	•
G.SKILL	F4-2133C15Q-16GRK	16GB (4x 4GB)	SS	-	-	15-15-15-35	1.2	•	•
G.SKILL	F4-2133C15Q-16GRB	16GB (4x 4GB)	SS	-	-	15-15-15-35	1.2	•	•
G.SKILL	F4-2133C15Q2-128GVK	128GB (8x 16GB)	DS	-	-	15-15-15-35	1.2	•	•
G.SKILL	F4-2133C15Q2-128GVR	128GB (8x 16GB)	DS	-	-	15-15-15-35	1.2	•	•
G.SKILL	F4-2133C15Q2-64GRR	64GB (8x 8GB)	DS	-	-	15-15-15-35	1.2	•	•
G.SKILL	F4-2133C15Q2-64GRB	64GB (8x 8GB)	DS	-	-	15-15-15-35	1.2	•	•
G.SKILL	F4-2133C15Q-32GRR	32GB (4x 8GB)	DS	-	-	15-15-15-35	-	•	•
G.SKILL	F4-2133C15Q-32GVR	32GB (4x 8GB)	DS	-	-	15-15-15-35	1.2	•	•
G.SKILL	F4-2133C15Q-32GVB	32GB (4x 8GB)	DS	-	-	15-15-15-35	1.2	•	•
G.SKILL	F4-2133C15Q-32GVG	32GB (4x 8GB)	DS	-	-	15-15-15-35	1.2	•	•
G.SKILL	F4-2133C15Q-32GVK	32GB (4x 8GB)	DS	-	-	15-15-15-35	1.2	•	•
G.SKILL	F4-2133C15Q-32GVS	32GB (4x 8GB)	DS	-	-	15-15-15-35	1.2	•	•
G.SKILL	F4-2133C15Q-32GRK	32GB (4x 8GB)	DS	-	-	15-15-15-35	1.2	•	•
G.SKILL	F4-2133C15Q-32GRB	32GB (4x 8GB)	DS	-	-	15-15-15-35	1.2	•	•
GeIL	GPR416GB2133C15QC	16GB (4x 4GB)	SS	-	-	15-15-15-36	1.2	•	•
GeIL	GPR432GB2133C15QC	32GB (4x 8GB)	SS	-	-	15-15-15-36	1.2	•	•
Hyper X	HX421C13SB/4(XMP)	4GB	SS	-	-	13-13-13-36	1.2	•	•
Hyper X	HX421C13SB/8(XMP)	8GB	DS	-	-	13-13-13-36	1.2	•	•
Hyper X	HX421C13SBK2/16(XMP)	16GB (2x 8GB)	DS	-	-	13-13-13-36	1.2	•	•
Hyper X	HX421C13SBK2/8(XMP)	8GB (2x 4GB)	SS	-	-	13-13-13-36	1.2	•	•
Hyper X	HX421C13SBK4/16(XMP)	16GB (4x 4GB)	SS	-	-	13-13-13-36	1.2	•	•
Hyper X	HX421C13SBK4/32(XMP)	32GB (4x 8GB)	DS	-	-	13-13-13-36	1.2	•	•
Hyper X	HX421C14FB/4	4GB	SS	-	-	14-14-14-35	1.2	•	•
Hyper X	HX421C14FB/8	8GB	DS	-	-	14-14-14-35	1.2	•	•
Hyper X	HX421C14FBK4/32(XMP)	32GB (4x 8GB)	SS	-	-	14-14-14-35	1.2	•	•
Hyper X	HX421C14FBK2/16	16GB (2x 8GB)	DS	-	-	14-14-14-35	1.2	•	•
Hyper X	HX421C14FBK2/8	8GB (2x 4GB)	SS	-	-	14-14-14-35	1.2	•	•
Hyper X	HX421C14FBK4/16	16GB (4x 4GB)	SS	-	-	14-14-14-35	1.2	•	•

Hyper X	HX421C14FBK4/32	32GB (4x 8GB)	DS	-	-	14-14-14-35	1.2	•	•
Hyper X	HX421C14FBK4/64	64GB (4x 16GB)	DS	-	-	15-15-15-35	1.2	•	•
Hyper X	HX421C14FBK8/64	64GB (8x 8GB)	DS	-	-	14-14-14-35	1.2	•	•
Kingston	KVR21N15D8/16	16GB	DS	Micron	D9TBH	15-15-15-36	1.2	•	•
Kingston	KVR21N15D8/8	8GB	DS	SK Hynix	H5AN4G8NAFR	15-15-15-36	1.2	•	•
Kingston	KVR21N15D8/8	8GB	DS	SK hynix	H5AN4G8NMFRTFC	15-15-15-37	1.2	•	•
Kingston	KVR21N15S8/4	4GB	SS	SK Hynix	H5AN4G8NAFR	15-15-15-36	1.2	•	•
Kingston	KVR21N15S8/4	4GB	SS	SK Hynix	H5AN4G8NAFR TFC	15-15-15-36	1.2	•	•
Kingston	KVR21N15S8/4	4GB	SS	SK Hynix	H5AN4G8NMFRTFC	15-15-15-37	1.2	•	•
Klevv	IM44GU48N21-FFFHAB(XMP)	4GB	SS	-	-	15-15-15-35	1.2	•	•
Klevv	KM4B4GX1N-2133-15-15-15-35-0	4GB	SS	-	-	15-15-15-35	1.2	•	•
Klevv	KM4B4GX2N-2133-15-15-15-35-0	4GB	SS	-	-	15-15-15-35	1.2	•	•
Klevv	KM4B4GX4N-2133-15-15-15-35-0	4GB	SS	-	-	15-15-15-35	1.2	•	•
Klevv	IM48GU88N21-FFFHMB(XMP)	8GB	SS	-	-	15-15-15-35	1.2	•	•
Klevv	KM4B8GX1N-2133-15-15-15-35-0	8GB	SS	-	-	15-15-15-35	1.2	•	•
Klevv	KM4B8GX2N-2133-15-15-15-35-0	8GB	SS	-	-	15-15-15-35	1.2	•	•
Klevv	KM4B8GX4N-2133-15-15-15-35-0	8GB	SS	-	-	15-15-15-35	1.2	•	•
Klevv	IM4AGU88N21-FFFHMB(XMP)	16GB	DS	-	-	15-15-15-35	1.2	•	•
Klevv	KM4B16X1N-2133-15-15-15-35-0	16GB	DS	-	-	15-15-15-35	1.2	•	•
Klevv	KM4B16X2N-2133-15-15-15-35-0	16GB	DS	-	-	15-15-15-35	1.2	•	•
Klevv	KM4B16X4N-2133-15-15-15-35-0	16GB	DS	-	-	15-15-15-35	1.2	•	•
Klevv	KM4C4GX4N-2133-15-15-15-35-0	4GB	SS	-	-	15-15-15-35	1.2	•	•
Klevv	KM4C4GX4N-2133-15-15-15-35-1	16GB (4x 4GB)	SS	-	-	15-15-15-35	1.2	•	•
Klevv	KM4C8GX4N-2133-15-15-15-35-0	8GB	DS	-	-	15-15-15-35	1.2	•	•
Klevv	KM4C8GX4N-2133-15-15-15-35-1	32GB (4x 8GB)	DS	-	-	15-15-15-35	1.2	•	•
Micron	MTA16ATF2G64AZ-2G1B1	16GB	DS	Micron	D9TBH	15-15-15-36	1.2	•	•
Micron	MTA8ATF1G64AZ-2G1B1	8GB	SS	-	-	15-15-15-36	1.2	•	•
panram	W4U2133PS-8G	8GB	SS	panram	DTCC872HA2	16-16-16-36	-	•	•
SanMax	SMD-4G28HP-21P	4GB	SS	SK Hynix	H5AN4G8NMFRTFC	15-15-15-37	-	•	•
SanMax	SMD-8G28HP-21P	8GB	DS	SK Hynix	H5AN4G8NMFRTFC	15-15-15-37	-	•	•
Silicon Power	SP004GBLFU213N01	4GB	SS	Samsung	K4A4G085WD	15-15-15-37	-	•	•
Silicon Power	SP008GBLFU213N01	8GB	DS	Samsung	K4A4G085WD	15-15-15-37	-	•	•
SK Hynix	HMA41GU7AFR8N-TF	8GB	DS	SK Hynix	H5AN4G8NAFR TFC	15-15-15-36	-	•	•
SK Hynix	HMA451U7AFR8N-TF	4GB	SS	SK Hynix	H5AN4G8NAFR	15-15-15-36	-	•	•
SK Hynix	HMA82GU6MFR8N-TF	16GB	DS	SK Hynix	H5AN8G8NMFRTFC	15-15-15-36	-	•	•
SK Hynix	HMA82GU7MFR8N-TF	16GB	DS	SK Hynix	H5AN8G8NMFRTFC	15-15-15-36	-	•	•
SUPER TALENT	FBU2B008GM	8GB	DS	Micron	D9RGO	15-15-15-36	1.2	•	•
Team	TED416G2133C15BK	16GB	DS	Team	T4D10248MT-24	15-15-15-36	1.2	•	•
Team	TED464G2133C15QC01	64GB(16GB*4)	DS	Team	T4D10248MT-24	15-15-15-36	1.2	•	•
Team	TPRD464G2133HC15QC01	64GB(16GB*4)	DS	Team	T4D10248MT-24	15-15-15-36	1.2	•	•
Team	TPD464G2133HC15QC01	64GB(16GB*4)	DS	Team	T4D10248MT-24	15-15-15-36	1.2	•	•
Team	TED432G2133C15DC01	32GB(16GB*2)	DS	Team	T4D10248MT-24	15-15-15-36	1.2	•	•
Team	TPRD432G2133HC15DC01	32GB(16GB*2)	DS	Team	T4D10248MT-24	15-15-15-36	1.2	•	•
Team	TPD432G2133HC15DC01	32GB(16GB*2)	DS	Team	T4D10248MT-24	15-15-15-36	1.2	•	•
Team	TED416G2133C1501	16GB	DS	Team	T4D10248MT-24	15-15-15-36	1.2	•	•
Team	TPRD416G2133HC1501	16GB	DS	Team	T4D10248MT-24	15-15-15-36	1.2	•	•
Team	TPD416G2133HC1501	16GB	DS	Team	T4D10248MT-24	15-15-15-36	1.2	•	•
Team	TED44GM2133C15ABK	4GB	SS	SK Hynix	H5AN4G8NMFRTFC	15-15-15-36	1.2	•	•
Team	TED48GM2133C15BK	8GB	DS	SK hynix	H5AN4G8NMFRTFC	15-15-15-36	1.2	•	•
Team	TED432G2133C15QC01	32GB(8GB*4)	DS	SK hynix	H5AN4G8NMFRTFC	15-15-15-36	1.2	•	•
Team	TPRD432G2133HC15QC01	32GB(8GB*4)	DS	SK hynix	H5AN4G8NMFRTFC	15-15-15-36	1.2	•	•
Team	TPD432G2133HC15QC01	32GB(8GB*4)	DS	SK hynix	H5AN4G8NMFRTFC	15-15-15-36	1.2	•	•
Team	TED416G2133C15DC01	16GB(8GB*2)	DS	SK hynix	H5AN4G8NMFRTFC	15-15-15-36	1.2	•	•
Team	TPRD416G2133HC15DC01	16GB(8GB*2)	DS	SK hynix	H5AN4G8NMFRTFC	15-15-15-36	1.2	•	•
Team	TPD416G2133HC15DC01	16GB(8GB*2)	DS	SK hynix	H5AN4G8NMFRTFC	15-15-15-36	1.2	•	•
Team	TED48G2133C1501	8GB	DS	SK hynix	H5AN4G8NMFRTFC	15-15-15-36	1.2	•	•
Team	TPRD48G2133HC1501	8GB	DS	SK hynix	H5AN4G8NMFRTFC	15-15-15-36	1.2	•	•
Team	TPD48G2133HC1501	8GB	DS	SK hynix	H5AN4G8NMFRTFC	15-15-15-36	1.2	•	•
UMAX	84G44G93MC-21OMCALGF15	4GB	SS	Micron	D9RGO	15-15-15-36	-	•	•
UMAX	84G48G93MC-21OMCGNGF15	8GB	DS	Micron	D9RGO	15-15-15-36	-	•	•
V-color	TC48G21S815-IMS	8GB	SS	-	-	15-15-15-36	1.2	•	•

8 DIMM Slots

- When installing total memory of 4GB capacity or more, Windows 32-bit operation system may only recognize less than 3GB. Hence, a total installed memory of less than 3GB is recommended.
- It is recommended to install the memory modules from the slots for better overclocking capability.
- The default DIMM frequency depends on its Serial Presence Detect (SPD), which is the standard way of accessing information from a memory module. Under the default state, some memory modules for overclocking may operate at a lower frequency than the vendor-marked value.
- Memory module with memory frequency higher than 2133 MHz and its corresponding timing or the loaded XMP Profile is not the JEDEC memory standard. The stability and compatibility of these memory modules depend on the CPU's capabilities and other installed devices.
- Always install DIMMs with the same CAS latency. For optimal compatibility, we recommend that you install memory modules of the same version or date code (D/C) from the same vendor. Check with the retailer to get the correct memory modules.

X299-Skylake-X

DDR4 2400 Qualified Vendors List (QVL)										
Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	DIMM socket support (Optional)		
								2 DIMM	4 DIMM	
ADATA	AD4U2400W4G17-B	4GB	SS	SK Hynix	H5AN4G8NAFR7FC	15-15-15-35	1.2	•	•	
ADATA	AD4U2400W8G17-B	8GB	DS	SK Hynix	H5AN4G8NAFR7FC	15-15-15-35	1.2	•	•	
ADATA	AX4U2400316G16-DRD(XMP)	16GB	DS	-	-	16-16-16-39	1.2	•	•	
ADATA	AX4U2400316G16-SBF(XMP)	16GB	DS	-	-	16-16-16-36	1.2	•	•	
ADATA	AX4U240038G16-SBF(XMP)	8GB	SS	-	-	16-16-16-39	1.2	•	•	
ADATA	AX4U2400W8G16-BRZ(XMP)	8GB	DS	-	-	16-16-16-39	1.2	•	•	
ADATA	AX4U2400W8G16-DRD(XMP)	8GB	DS	-	-	16-16-16-39	1.2	•	•	
Apacer	78.B1GMS.4050B	16GB (4x 4GB)	SS	Samsung	K4A4G085WD	17-17-17-39	-	•	•	
Apacer	78.C1GMS.4010B	32GB (4x 8GB)	DS	Samsung	K4A4G085WD	17-17-17-39	-	•	•	
Apacer	EL.08G2T.GFM	8GB	SS	Apacer	AM6F6308MHHSB2	17-17-17-39	-	•	•	
Apacer	AU08GGB24CEYBGC (EL.08G2T.GFM)	8GB	SS	Apacer	AM6F6308MHHSB2	17-17-17-39	1.2	•	•	
Apacer	AHU08GGB24CDT7G (EK.08G2T.KEC)	8GB	DS	Apacer	-	16-16-16-36	1.2	•	•	
Apacer	AHU08GGB24CDU7G (EK.08G2T.GEC)	8GB	SS	Apacer	-	16-16-16-36	1.2	•	•	
Apacer	AHU08GGB24CDU6H (EK.16GAT.GEAK2)	16GB (2x 8GB)	SS	Apacer	-	16-16-16-36	1.2	•	•	
Apacer	AHU08GGB24CDU5H (EK.16GAT.GEBK2)	16GB (2x 8GB)	SS	Apacer	-	16-16-16-36	1.2	•	•	
CORSAIR	CMD16GX4M4A2400C14(Ver4.23)(XMP)	16GB (4x 4GB)	SS	-	-	14-16-16-31	1.2	•	•	
CORSAIR	CMD32GX4M4A2400C14(Ver4.23)(XMP)	32GB (4x 8GB)	DS	-	-	14-16-16-31	1.2	•	•	
CORSAIR	CMK128GX4M8A2400C14(Ver5.30)(XMP)	128GB (8x 16GB)	DS	-	-	14-16-16-31	1.2	•	•	
CORSAIR	CMK16GX4M2A2400C16(Ver3.31)(XMP)	16GB (2x 8GB)	DS	-	-	16-16-16-39	1.2	•	•	
CORSAIR	CMK16GX4M2Z2400C16(Ver3.31)	16GB (2x 8GB)	SS	-	-	16-16-16-39	1.2	•	•	
CORSAIR	CMK16GX4M4A2400C14(Ver4.23)(XMP)	16GB (4x 4GB)	SS	-	-	14-16-16-31	1.2	•	•	
CORSAIR	CMK32GX4M4A2400C14(Ver4.23)(XMP)	32GB (4x 8GB)	DS	-	-	14-16-16-31	1.2	•	•	
CORSAIR	CMK32GX4M4A2400C16(Ver3.31)(XMP)	32GB (4x 8GB)	SS	-	-	16-16-16-39	1.2	•	•	
CORSAIR	CMK64GX4M4A2400C14(Ver3.31)(XMP)	64GB (4x 16GB)	DS	-	-	14-16-16-31	1.2	•	•	
CORSAIR	CMK64GX4M4A2400C14(Ver4.31)(XMP)	64GB (4x 16GB)	DS	-	-	14-16-16-31	1.2	•	•	
crucial	BLS16G4D240FSB.16FBD(XMP)	16GB	DS	-	-	16-16-16-39	1.2	•	•	
crucial	BLS4G4D240FSB.8FBD(XMP)	4GB	SS	-	-	16-16-16-39	1.2	•	•	
crucial	BLS8G4D240FSBK.8FBD(XMP)	8GB	SS	-	-	16-16-16-39	1.2	•	•	
crucial	CT16G4DFD824A.16FB1	16GB	DS	Micron	D9TBH	17-17-17-39	1.2	•	•	
crucial	CT16G4DFD824A.C16FDR1	16GB	DS	Micron	C9BGV	17-17-17-39	1.2	•	•	
G.SKILL	F4-2400C14Q2-128GRK(XMP)	128GB (8x 16GB)	DS	-	-	14-14-14-34	1.2	•	•	
G.SKILL	F4-2400C15Q-16GRR(XMP)	16GB (4x 4GB)	SS	-	-	15-15-15-35	1.2	•	•	
G.SKILL	F4-2400C15Q-16GVR	16GB (4x 4GB)	SS	-	-	15-15-15-35	1.2	•	•	
G.SKILL	F4-2400C15Q-16GVB	16GB (4x 4GB)	SS	-	-	15-15-15-35	1.2	•	•	
G.SKILL	F4-2400C15Q-16GVG	16GB (4x 4GB)	SS	-	-	15-15-15-35	1.2	•	•	
G.SKILL	F4-2400C15Q-16GVK	16GB (4x 4GB)	SS	-	-	15-15-15-35	1.2	•	•	
G.SKILL	F4-2400C15Q-16GVS	16GB (4x 4GB)	SS	-	-	15-15-15-35	1.2	•	•	
G.SKILL	F4-2400C15Q-16GRK	16GB (4x 4GB)	SS	-	-	15-15-15-35	1.2	•	•	
G.SKILL	F4-2400C15Q-16GRB	16GB (4x 4GB)	SS	-	-	15-15-15-35	1.2	•	•	
G.SKILL	F4-2400C15Q2-128GRK(XMP)	128GB (8x 16GB)	DS	-	-	15-15-15-35	1.2	•	•	
G.SKILL	F4-2400C15Q2-128GVR	128GB (8x 16GB)	DS	-	-	15-15-15-35	1.2	•	•	
G.SKILL	F4-2400C15Q2-64GRK(XMP)	64GB (8x 8GB)	DS	-	-	15-15-15-35	1.2	•	•	
G.SKILL	F4-2400C15Q-32GRR(XMP)	32GB (4x 8GB)	DS	-	-	15-15-15-35	1.2	•	•	
G.SKILL	F4-2400C15Q-32GVR	32GB (4x 8GB)	DS	-	-	15-15-15-35	1.2	•	•	
G.SKILL	F4-2400C15Q-32GVB	32GB (4x 8GB)	DS	-	-	15-15-15-35	1.2	•	•	
G.SKILL	F4-2400C15Q-32GVG	32GB (4x 8GB)	DS	-	-	15-15-15-35	1.2	•	•	
G.SKILL	F4-2400C15Q-32GVK	32GB (4x 8GB)	DS	-	-	15-15-15-35	1.2	•	•	
G.SKILL	F4-2400C15Q-32GVS	32GB (4x 8GB)	DS	-	-	15-15-15-35	1.2	•	•	
G.SKILL	F4-2400C15Q-32GRK	32GB (4x 8GB)	DS	-	-	15-15-15-35	1.2	•	•	
G.SKILL	F4-2400C15Q-32GRB	32GB (4x 8GB)	DS	-	-	15-15-15-35	1.2	•	•	
GeIL	GFR416GB2400C16S(XMP)	16GB	SS	-	-	16-16-16-36	1.2	•	•	
GeIL	GFR432GB2400C16D(XMP)	16GB	SS	-	-	16-16-16-36	1.2	•	•	
GeIL	GLR464GB2400C14QC(XMP)	64GB (4x 16GB)	DS	-	-	14-14-14-35	1.2	•	•	

GeIL	GPR416GB2400C15QC(XMP)	16GB (4x 4GB)	SS	-	-	15-15-15-35	1.2	•	•
GeIL	GPR432GB2400C15QC(XMP)	32GB (4x 8GB)	DS	-	-	15-15-15-35	1.2	•	•
GeIL	GPR432GB2400C16QC(XMP)	32GB (4x 8GB)	SS	-	-	16-16-16-36	1.2	•	•
Hyper X	HX424C12PB2K4/16	16GB (4x 4GB)	SS	-	-	12-13-13-35	1.2	•	•
Hyper X	HX424C12SB2/4(XMP)	4GB	SS	-	-	12-14-14-35	1.35	•	•
Hyper X	HX424C12SB2/8(XMP)	8GB	DS	-	-	12-14-14-35	1.35	•	•
Hyper X	HX424C12SB2K2/16(XMP)	16GB (2x 8GB)	DS	-	-	12-14-14-35	1.35	•	•
Hyper X	HX424C12SB2K2/16(XMP)	16GB (2x 8GB)	DS	Nanya	NT5AD512M8B1-GN	12-14-14-35	1.35	•	•
Hyper X	HX424C12SB2K4/16(XMP)	16GB (4x 4GB)	SS	-	-	12-14-14-35	1.35	•	•
Hyper X	HX424C12SB2K4/32(XMP)	32GB (4x 8GB)	DS	-	-	12-14-14-35	1.35	•	•
Hyper X	HX424C12SB2K4/32(XMP)	32GB (4x 8GB)	DS	Nanya	NT5AD512M8B1-GN	12-14-14-35	1.35	•	•
Hyper X	HX424C15B2K4/32(XMP)	32GB (4x 8GB)	SS	-	-	15-15-15-35	1.2	•	•
Hyper X	HX424C15FB/4	4GB	SS	-	-	15-15-15-35	1.2	•	•
Hyper X	HX424C15FB/8(XMP)	8GB	SS	-	-	15-15-15-35	1.2	•	•
Hyper X	HX424C15FB/8(XMP)	8GB	DS	-	-	15-15-15-35	1.2	•	•
Hyper X	HX424C15FBK2/16	32GB (2x 16GB)	DS	-	-	15-15-15-35	1.2	•	•
Hyper X	HX424C15FBK2/8	8GB (2x 4GB)	SS	-	-	15-15-15-35	1.2	•	•
Hyper X	HX424C15FBK4/16	16GB (4x 4GB)	SS	-	-	15-15-15-35	1.2	•	•
Hyper X	HX424C15FBK4/16	16GB (4x4GB)	SS	-	-	15-15-15-35	1.2	•	•
Hyper X	HX424C15FBK4/32	32GB (4x 8GB)	DS	-	-	15-15-15-35	1.2	•	•
Hyper X	HX424C15FBK4/64	64GB (4x 16GB)	DS	-	-	15-15-15-35	1.2	•	•
J&A	AD4U24001716-16M	16GB	DS	-	-	17-17-17-39	-	•	•
J&A	JAD4U24001708-04M	4GB	SS	-	-	17-17-17-39	-	•	•
J&A	JAD4U24001708-08M	8GB	SS	-	-	17-17-17-39	-	•	•
KINGMAX	GLLF62F-DAKZIG-CLBU	4GB	SS	KINGMAX	KGDACZ-CU	17-17-17-39	-	•	•
Kingston	KVR24N17D8/16	16GB	DS	Micron	D9SRJ	17-17-17-39	1.2	•	•
Kingston	KVR24N17D8/8	8GB	DS	Micron	D9TGG	17-17-17-39	1.2	•	•
Kingston	KVR24N17S8/4	4GB	SS	Micron	D9TGG	17-17-17-39	1.2	•	•
Kingston	KVR24N17S8/8	8GB	SS	Micron	D9TBH	17-17-17-39	1.2	•	•
Kingston	KVR24N17S8/8	8GB	SS	-	-	17-17-17-39	1.2	•	•
Klevv	IM44GU48N24-FFFHAB(XMP)	4GB	SS	-	-	15-15-15-35	1.2	•	•
Klevv	KM4B4GX1N-2133-15-15-15-35-0	4GB	SS	-	-	15-15-15-35	1.2	•	•
Klevv	KM4B4GX2N-2133-15-15-15-35-0	4GB	SS	-	-	15-15-15-35	1.2	•	•
Klevv	KM4B4GX4N-2133-15-15-15-35-0	4GB	SS	-	-	15-15-15-35	1.2	•	•
Klevv	IM44GU48N24-FFFHAZ(XMP)	4GB	SS	-	-	15-15-15-35	1.2	•	•
Klevv	KM4Z4GX1N-2400-15-15-15-35-1	4GB	SS	-	-	15-15-15-35	1.2	•	•
Klevv	KM4Z4GX2N-2400-15-15-15-35-1	4GB	SS	-	-	15-15-15-35	1.2	•	•
Klevv	KM4Z4GX4N-2400-15-15-15-35-1	4GB	SS	-	-	15-15-15-35	1.2	•	•
Klevv	IM48GU88N24-FFFHMB(XMP)	8GB	SS	-	-	15-15-15-35	1.2	•	•
Klevv	KM4B8GX1N-2400-15-15-15-35-0	8GB	SS	-	-	15-15-15-35	1.2	•	•
Klevv	KM4B8GX2N-2400-15-15-15-35-0	8GB	SS	-	-	15-15-15-35	1.2	•	•
Klevv	KM4B8GX4N-2400-15-15-15-35-0	8GB	SS	-	-	15-15-15-35	1.2	•	•
Klevv	IM48GU88N24-FFFHMZ(XMP)	8GB	SS	-	-	15-15-15-35	1.2	•	•
Klevv	KM4Z8GX1N-2400-15-15-15-35-1	8GB	SS	-	-	15-15-15-35	1.2	•	•
Klevv	KM4Z8GX2N-2400-15-15-15-35-1	8GB	SS	-	-	15-15-15-35	1.2	•	•
Klevv	KM4Z8GX4N-2400-15-15-15-35-1	8GB	SS	-	-	15-15-15-35	1.2	•	•
Klevv	IM4AGU88N24-FFFHMB(XMP)	16GB	DS	-	-	15-15-15-35	1.2	•	•
Klevv	KM4B16X1N-2133-15-15-15-35-0	16GB	DS	-	-	15-15-15-35	1.2	•	•
Klevv	KM4B16X2N-2133-15-15-15-35-0	16GB	DS	-	-	15-15-15-35	1.2	•	•
Klevv	KM4B16X2N-2133-15-15-15-35-0	16GB	DS	-	-	15-15-15-35	1.2	•	•
Klevv	IM4AGU88N24-FFFHMZ(XMP)	16GB	DS	-	-	15-15-15-35	1.2	•	•
Klevv	KM4Z16X1N-2400-15-15-15-35-0	16GB	DS	-	-	15-15-15-35	1.2	•	•
Klevv	KM4Z16X2N-2400-15-15-15-35-0	16GB	DS	-	-	15-15-15-35	1.2	•	•
Klevv	KM4Z16X4N-2400-15-15-15-35-0	16GB	DS	-	-	15-15-15-35	1.2	•	•
Micron	MTA16ATF2G64AZ-2G3B1	16GB	DS	Micron	D9TBH	17-17-17-39	1.2	•	•
panram	W4U2400PS-8G	8GB	SS	panram	DTCCH912G2	14-14-14-31	-	•	•
PATRIOT	PSD416G24002	16GB	DS	Samsung	K4A8G085WB	17-17-17-39	1.2	•	•
PATRIOT	PSD44G240081	4GB	SS	Samsung	K4A4G085WE	16-16-16-39	1.2	•	•
PATRIOT	PSD44G240081	4GB	SS	PATRIOT	PM5128D4BU-083	16-16-16-39	1.2	•	•
PATRIOT	PSD48G240081	8GB	SS	Samsung	K4A8G085WB	17-17-17-39	1.2	•	•
PATRIOT	PV432G240C5QK(XMP)	32GB (4x 8GB)	SS	-	-	15-15-15-35	1.2	•	•
PATRIOT	PVE416G240C5KBL(XMP)	16GB (2x 8GB)	SS	-	-	15-15-15-35	-	•	•
PATRIOT	PVE48G240C5KRD(XMP)	8GB (2x 4GB)	SS	-	-	15-15-15-35	-	•	•
SK Hynix	HMA81GU6AFR8N-UH	8GB	SS	SK Hynix	H5AN8GBNAFRUHC	17-17-17-39	-	•	•
SK Hynix	HMA82GU6AFR8N-UH	16GB	DS	SK Hynix	H5AN8GBNAFRUHC	17-17-17-39	-	•	•
Team	TD44G2400C14BK(XMP)	4GB	SS	SK Hynix	H5AN4GBNAFRUHC	14-16-16-31	1.2	•	•

Team	TLRED416G2400HC14QC01	16GB(4GB*4)	SS	SK Hynix	H5AN4GBNAFRTFC	14-16-16-31	1.2	•
Team	TLGD416G2400HC14QC01	16GB(4GB*4)	SS	SK Hynix	H5AN4GBNAFRTFC	14-16-16-31	1.2	•
Team	TDRED416G2400HC14QC01	16GB(4GB*4)	SS	SK Hynix	H5AN4GBNAFRTFC	14-16-16-31	1.2	•
Team	TDGED416G2400HC14QC01	16GB(4GB*4)	SS	SK Hynix	H5AN4GBNAFRTFC	14-16-16-31	1.2	•
Team	TLRED48G2400HC14DC01	8GB(4GB*2)	SS	SK Hynix	H5AN4GBNAFRTFC	14-16-16-31	1.2	•
Team	TLGD48G2400HC14DC01	8GB(4GB*2)	SS	SK Hynix	H5AN4GBNAFRTFC	14-16-16-31	1.2	•
Team	TDRED48G2400HC14DC01	8GB(4GB*2)	SS	SK Hynix	H5AN4GBNAFRTFC	14-16-16-31	1.2	•
Team	TDGED48G2400HC14DC01	8GB(4GB*2)	SS	SK Hynix	H5AN4GBNAFRTFC	14-16-16-31	1.2	•
Team	TLRED44G2400HC1401	4GB	SS	SK Hynix	H5AN4GBNAFRTFC	14-16-16-31	1.2	•
Team	TLGD44G2400HC1401	4GB	SS	SK Hynix	H5AN4GBNAFRTFC	14-16-16-31	1.2	•
Team	TDRED44G2400HC1401	4GB	SS	SK Hynix	H5AN4GBNAFRTFC	14-16-16-31	1.2	•
Team	TDGED44G2400HC1401	4GB	SS	SK Hynix	H5AN4GBNAFRTFC	14-16-16-31	1.2	•
Team	TCD48G2400C14BK(XMP)	8GB	DS	Team	T4D1024BMT-24	14-16-16-31	1.2	•
Team	TLRED432G2400HC14QC01	32GB(8GB*4)	DS	Team	T4D1024BMT-24	14-16-16-31	1.2	•
Team	TLGD432G2400HC14QC01	32GB(8GB*4)	DS	Team	T4D1024BMT-24	14-16-16-31	1.2	•
Team	TDRED432G2400HC14QC01	32GB(8GB*4)	DS	Team	T4D1024BMT-24	14-16-16-31	1.2	•
Team	TDGED432G2400HC14QC01	32GB(8GB*4)	DS	Team	T4D1024BMT-24	14-16-16-31	1.2	•
Team	TLRED416G2400HC14DC01	16GB(8GB*2)	DS	Team	T4D1024BMT-24	14-16-16-31	1.2	•
Team	TLGD416G2400HC14DC01	16GB(8GB*2)	DS	Team	T4D1024BMT-24	14-16-16-31	1.2	•
Team	TDRED416G2400HC14DC01	16GB(8GB*2)	DS	Team	T4D1024BMT-24	14-16-16-31	1.2	•
Team	TDGED416G2400HC14DC01	16GB(8GB*2)	DS	Team	T4D1024BMT-24	14-16-16-31	1.2	•
Team	TLRED48G2400HC1401	8GB	DS	Team	T4D1024BMT-24	14-16-16-31	1.2	•
Team	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	TDTRD416G2400HC15AQC01	16GB(4GB*4)	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	TDTRD48G2400HC15ADC01	8GB(4GB*2)	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	TDTRD44G2400HC15A01	4GB	SS	Team	T4D5128HT-24	15-15-15-35	1.2	•
Team	TDTRD44G2400HC15A01	4GB	SS	Team	T4D5128HT-24	15-15-15-35	1.2	•
Team	TDTRD44G2400HC15A01	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	TDTRD432G2400HC15AQC01	32GB(8GB*4)	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	TDTRD416G2400HC15ADC01	16GB(8GB*2)	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	TDTRD416G2400HC15ADC01	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	TD TBD48G2400HC15A01	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	TD TBD464G2400HC15BQC01	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	TD TBD432G2400HC15BDC01	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	TD TBD416G2400HC15B01	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	•	•

8 DIMM Slots

-When installing total memory of 4GB capacity or more, Windows 32-bit operation system may only recognize less than 3GB. Hence, a total installed memory of less than 3GB is recommended.

-It is recommended to install the memory modules from the slots for better overclocking capability.

-The default DIMM frequency depends on its Serial Presence Detect (SPD), which is the standard way of accessing information from a memory module. Under the default state, some memory modules for overclocking may operate at a lower frequency than the vendor-marked value.

-Memory module with memory frequency higher than 2133 MHz and its corresponding timing or the loaded XMP Profile is not the JEDEC memory standard. The stability and compatibility of these memory modules depend on the CPU's capabilities and other installed devices.

-Always install DIMMs with the same CAS latency. For optimal compatibility, we recommend that you install memory modules of the same version or date code (D/C) from the same vendor. Check with the retailer to get the correct memory modules.

X299-Skylake-X

DDR4 2666 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	DIMM socket support (Optional)	
								2 DIMM	4 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	•	•
CORSAIR	CMD64GX4M8A2666C15(Ver4.23)(XMP)	64GB (8x 8GB)	DS	-	-	15-17-17-35	1.2	•	•
CORSAIR	CMD64GX4M8A2666C15(Ver4.24)(XMP)	64GB (8x 8GB)	DS	-	-	15-17-17-35	1.2	•	•
CORSAIR	CMD8GX4M2A2666C15(Ver4.23)(XMP)	8GB (2x 4GB)	DS	-	-	15-17-17-35	1.2	•	•
CORSAIR	CMK128GX4M8A2666C16(Ver5.39)(XMP)	128GB (8x 16GB)	DS	-	-	16-18-18-35	1.2	•	•
CORSAIR	CMK16GX4M2A2666C16(Ver5.29)(XMP)	16GB (2x 8GB)	DS	-	-	16-18-18-35	1.2	•	•
CORSAIR	CMK16GX4M2A2666C16(Ver5.30)(XMP)	16GB (2x 8GB)	SS	-	-	16-18-18-35	1.2	•	•
CORSAIR	CMK16GX4M4A2666C15(Ver4.23)(XMP)	16GB (4x 4GB)	SS	-	-	15-17-17-35	1.2	•	•
CORSAIR	CMK16GX4M4A2666C15(Ver5.29)(XMP)	16GB (4x 4GB)	SS	-	-	15-17-17-35	1.2	•	•
CORSAIR	CMK16GX4M4A2666C16(Ver3.21)(XMP)	16GB (4x 4GB)	SS	-	-	16-18-18-35	1.2	•	•
CORSAIR	CMK16GX4M4A2666C16(Ver4.23)(XMP)	16GB (4x 4GB)	SS	-	-	16-18-18-35	1.2	•	•
CORSAIR	CMK16GX4M4A2666C16(Ver5.29)(XMP)	16GB (4x 4GB)	SS	-	-	16-18-18-35	1.2	•	•
CORSAIR	CMK32GX4M2A2666C16(Ver4.31)(XMP)	32GB (2x 16GB)	DS	-	-	16-18-18-35	1.2	•	•
CORSAIR	CMK32GX4M2A2666C16R(Ver3.31)(XMP)	32GB (2x 16GB)	DS	-	-	16-18-18-35	1.2	•	•
CORSAIR	CMK32GX4M4A2666C15(Ver4.23)(XMP)	32GB (4x 8GB)	DS	-	-	15-17-17-35	1.2	•	•
CORSAIR	CMK32GX4M4A2666C15(Ver5.29)(XMP)	32GB (4x 8GB)	DS	-	-	15-17-17-35	1.2	•	•
CORSAIR	CMK32GX4M4A2666C16(Ver3.20)(XMP)	32GB (4x 8GB)	DS	-	-	16-18-18-35	1.2	•	•
CORSAIR	CMK32GX4M4A2666C16(Ver3.21)(XMP)	32GB (4x 8GB)	DS	-	-	16-18-18-35	1.2	•	•
CORSAIR	CMK32GX4M4A2666C16(Ver5.29)(XMP)	32GB (4x 8GB)	DS	-	-	16-16-18-35	1.2	•	•
CORSAIR	CMK32GX4M4A2666C16(Ver5.30)(XMP)	32GB (4x 8GB)	SS	-	-	16-18-18-35	1.2	•	•
CORSAIR	CMK32GX4M4A2666C16R(Ver4.23)(XMP)	32GB (4x 8GB)	DS	-	-	16-18-18-35	1.2	•	•
CORSAIR	CMK64GX4M4A2666C16(Ver3.31)(XMP)	64GB (4x 16GB)	DS	-	-	16-18-18-35	1.2	•	•
CORSAIR	CMK64GX4M4A2666C16(Ver4.31)(XMP)	64GB (4x 16GB)	DS	-	-	16-18-18-35	1.2	•	•
CORSAIR	CMU32GX4M4A2666C16(Ver5.30)(XMP)	32GB (4x 8GB)	SS	-	-	16-18-18-35	1.2	•	•
crucial	BLE4G4D26AFE.8FAD(XMP)	4GB	SS	-	-	16-17-17-36	1.2	•	•
crucial	BLE8G4D26AFE.16FAD(XMP)	8GB	DS	-	-	16-17-17-36	1.2	•	•
crucial	BLS16G4D26BFSC.16FBD(XMP)	16GB	DS	-	-	16-18-18-38	1.2	•	•
crucial	BLS4G4D26BFSC.8FBR2(XMP)	4GB	SS	-	-	16-18-18-38	1.2	•	•
crucial	BLS8G4D26BFSC.16FBR2(XMP)	8GB	DS	-	-	16-18-18-38	1.2	•	•
crucial	BLT4G4D26AFTA.8FADG(XMP)	16GB (4x4GB)	SS	-	-	16-17-17-36	1.2	•	•
crucial	BLT4G4D26AFTA.8FADG(XMP)	4GB	SS	-	-	16-17-17-36	1.2	•	•
crucial	BLT8G4D26AFTA.16FAD(XMP)	32GB (4x 8GB)	DS	-	-	16-17-17-36	1.2	•	•
crucial	BLT8G4D26AFTA.16FAD(XMP)	8GB	DS	-	-	16-17-17-36	1.2	•	•
G.SKILL	F4-2666C15Q-16GRR(XMP)	16GB (4x 4GB)	SS	-	-	15-15-15-35	1.2	•	•
G.SKILL	F4-2666C15Q-16GVR	16GB (4x 4GB)	SS	-	-	15-15-15-35	1.2	•	•
G.SKILL	F4-2666C15Q-16GVB	16GB (4x 4GB)	SS	-	-	15-15-15-35	1.2	•	•
G.SKILL	F4-2666C15Q-16GVG	16GB (4x 4GB)	SS	-	-	15-15-15-35	1.2	•	•
G.SKILL	F4-2666C15Q-16GVK	16GB (4x 4GB)	SS	-	-	15-15-15-35	1.2	•	•
G.SKILL	F4-2666C15Q-16GVS	16GB (4x 4GB)	SS	-	-	15-15-15-35	1.2	•	•
G.SKILL	F4-2666C15Q-16GRK	16GB (4x 4GB)	SS	-	-	15-15-15-35	1.2	•	•
G.SKILL	F4-2666C15Q-16GRB	16GB (4x 4GB)	SS	-	-	15-15-15-35	1.2	•	•
G.SKILL	F4-2666C15Q-32GRR(XMP)	32GB (4x 8GB)	DS	-	-	15-15-15-35	1.2	•	•
G.SKILL	F4-2666C15Q-32GVR	32GB (4x 8GB)	DS	-	-	15-15-15-35	1.2	•	•

G.SKILL	F4-2666C15Q-32GVB	32GB (4x 8GB)	DS			15-15-15-35	1.2	•	•
G.SKILL	F4-2666C15Q-32GVG	32GB (4x 8GB)	DS			15-15-15-35	1.2	•	•
G.SKILL	F4-2666C15Q-32GVK	32GB (4x 8GB)	DS			15-15-15-35	1.2	•	•
G.SKILL	F4-2666C15Q-32GVS	32GB (4x 8GB)	DS			15-15-15-35	1.2	•	•
G.SKILL	F4-2666C15Q-32GRK	32GB (4x 8GB)	DS			15-15-15-35	1.2	•	•
G.SKILL	F4-2666C15Q-32GRB	32GB (4x 8GB)	DS			15-15-15-35	1.2	•	•
G.SKILL	F4-2666C16Q2-128GVK(XMP)	128GB (8x 16GB)	DS	-	-	16-16-16-36	1.2	•	•
G.SKILL	F4-2666C16Q2-128GVR	128GB (8x 16GB)	DS			16-16-16-36	1.2	•	•

|
8 DIMM Slots

-When installing total memory of 4GB capacity or more, Windows 32-bit operation system may only recognize less than 3GB. Hence, a total installed memory of less than 3GB is recommended.

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X299-Skylake-X

DDR4 2800 Qualified Vendors List (QVL)									
Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	DIMM socket support (Optional)	
								2 DIMM	4 DIMM
ADATA	AX4U2800316G16(XMP)	16GB	DS	-	-	16-16-16-36	1.2	•	•
ADATA	AX4U2800316G16-SBF(XMP)	16GB	DS	-	-	16-16-16-36	1.2	•	•
ADATA	AX4U280038G17-SBF(XMP)	8GB	SS	-	-	17-17-17-36	1.2	•	•
ADATA	AX4U2800W4G17-BRZ(XMP)	4GB	SS	-	-	17-17-17-36	1.2	•	•
ADATA	AX4U2800W8G15(XMP)	8GB	DS	-	-	15-16-16-35	1.25	•	•
ADATA	AX4U2800W8G17-BRD(XMP)	8GB	DS	-	-	17-17-17-36	1.2	•	•
ADATA	AX4U2800W8G17-BRZ(XMP)	8GB	DS	-	-	17-17-17-36	1.2	•	•
Apacer	78.BAGM8.AF20B(XMP)	16GB (4x 4GB)	SS	-	-	17-17-17-36	-	•	•
Apacer	EK.16GAW.KFAK2(XMP)	8GB	DS	-	-	17-17-17-36	-	•	•
Apacer	AHU08GGB28CET6H (EK.16GAW.KFAK2)	8GB	DS	Apacer	-	17-17-17-36	1.2	•	•
Apacer	AHU08GGB28CEU6H (EK.16GAW.GFAK2)	16GB (2x 8GB)	SS	Apacer	-	17-17-17-36	1.2	•	•
Apacer	AHU08GGB28CEU5H (EK.16GAW.GFBK2)	16GB (2x 8GB)	SS	Apacer	-	17-17-17-36	1.2	•	•
CORSAIR	CMD16GX4M4A2800C16(Ver4.23)(XMP)	16GB (4x 4GB)	SS	-	-	16-18-18-36	1.2	•	•
CORSAIR	CMD16GX4M4A2800C16(Ver5.29)(XMP)	16GB (4x 4GB)	SS	-	-	16-18-18-36	1.2	•	•
CORSAIR	CMK16GX4M4A2800C16(Ver4.23)(XMP)	16GB (4x 4GB)	SS	-	-	16-16-18-36	1.2	•	•
CORSAIR	CMK16GX4M4A2800C16(Ver5.29)(XMP)	16GB (4x 4GB)	SS	-	-	16-18-18-36	1.2	•	•
G.SKILL	F4-2800C14Q-64GVK(XMP)	64GB (4x 16GB)	DS	-	-	14-14-14-35	1.35	•	•
G.SKILL	F4-2800C15Q2-128GRKD(XMP)	128GB (8x 16GB)	DS	-	-	15-15-15-35	1.35	•	•
G.SKILL	F4-2800C15Q2-64GRK(XMP)	64GB (8x 8GB)	DS	-	-	15-16-16-35	1.25	•	•
G.SKILL	F4-2800C16Q-16GRK(XMP)	16GB (4x 4GB)	SS	-	-	16-16-16-36	1.2	•	•
G.SKILL	F4-2800C16Q-16GVR	16GB (4x 4GB)	SS	-	-	16-16-16-36	1.2	•	•
G.SKILL	F4-2800C16Q-16GVB	16GB (4x 4GB)	SS	-	-	16-16-16-36	1.2	•	•
G.SKILL	F4-2800C16Q-16GVK	16GB (4x 4GB)	SS	-	-	16-16-16-36	1.2	•	•
G.SKILL	F4-2800C16Q-16GVG	16GB (4x 4GB)	SS	-	-	16-16-16-36	1.2	•	•
G.SKILL	F4-2800C16Q-16GVS	16GB (4x 4GB)	SS	-	-	16-16-16-36	1.2	•	•
G.SKILL	F4-2800C16Q-16GRR(XMP)	16GB (4x 4GB)	SS	-	-	16-16-16-36	1.2	•	•
G.SKILL	F4-2800C16Q-32GRK(XMP)	32GB (4x 8GB)	DS	-	-	16-16-16-36	1.2	•	•
G.SKILL	F4-2800C16Q-32GRR(XMP)	32GB (4x 8GB)	DS	-	-	16-16-16-36	1.2	•	•
G.SKILL	F4-2800C16Q-32GVR	32GB (4x 8GB)	DS	-	-	16-16-16-36	1.2	•	•
G.SKILL	F4-2800C16Q-32GVB	32GB (4x 8GB)	DS	-	-	16-16-16-36	1.2	•	•
G.SKILL	F4-2800C16Q-32GVK	32GB (4x 8GB)	DS	-	-	16-16-16-36	1.2	•	•
G.SKILL	F4-2800C16Q-32GVG	32GB (4x 8GB)	DS	-	-	16-16-16-36	1.2	•	•
G.SKILL	F4-2800C16Q-32GVS	32GB (4x 8GB)	DS	-	-	16-16-16-36	1.2	•	•
GeIL	GPR416GB2800C16QC(XMP)	16GB (4x 4GB)	SS	-	-	16-16-16-36	1.2	•	•
GeIL	GPR432GB2800C16QC(XMP)	32GB (4x 8GB)	DS	-	-	16-16-16-36	1.2	•	•
Hyper X	HX428C14PBK8/64(XMP)	64GB (8x 8GB)	DS	-	-	14-15-15-39	1.35	•	•
Hyper X	HX428C14SB2/4(XMP)	4GB	SS	-	-	14-16-16-39	1.35	•	•
Hyper X	HX428C14SB2/8(XMP)	8GB	DS	-	-	14-16-16-39	1.35	•	•
Hyper X	HX428C14SB2K2/16(XMP)	16GB (2x 8GB)	DS	-	-	14-16-16-39	1.35	•	•
Hyper X	HX428C14SB2K2/8(XMP)	8GB (2x 4GB)	SS	-	-	14-16-16-39	1.35	•	•
Hyper X	HX428C14SB2K4/16(XMP)	16GB (4x 4GB)	SS	-	-	14-16-16-39	1.35	•	•
Hyper X	HX428C14SB2K4/32(XMP)	32GB (4x 8GB)	DS	-	-	14-16-16-39	1.35	•	•
Klevv	IMA451U6MFR8N-DG0(Ver1.05)(XMP)	4GB	SS	-	-	16-16-16-36	1.2	•	•
NEO FORZA	NMUD416E81-2800EB30	64GB(4x16GB)	DS	-	-	2800-17-17-17-36	-	•	•
NEO FORZA	NMUD416E82-2800EB30	64GB(4x16GB)	DS	-	-	2800-17-17-17-36	-	•	•
NEO FORZA	NMUD416E81-2800EC30	64GB(4x16GB)	DS	-	-	2800-17-17-17-36	-	•	•
NEO FORZA	NMUD416E82-2800EC30	64GB(4x16GB)	DS	-	-	2800-17-17-17-36	-	•	•
NEO FORZA	NMUD416E81-2800ED30	64GB(4x16GB)	DS	-	-	2800-17-17-17-36	-	•	•
NEO FORZA	NMUD416E82-2800ED30	64GB(4x16GB)	DS	-	-	2800-17-17-17-36	-	•	•
NEO FORZA	NMUD480E81-2800EB30	32GB (4x 8GB)	SS	-	-	2800-17-17-17-36	-	•	•
NEO FORZA	NMUD480E82-2800EB30	32GB (4x 8GB)	SS	-	-	2800-17-17-17-36	-	•	•
NEO FORZA	NMUD480E81-2800EC30	32GB (4x 8GB)	SS	-	-	2800-17-17-17-36	-	•	•
NEO FORZA	NMUD480E82-2800EC30	32GB (4x 8GB)	SS	-	-	2800-17-17-17-36	-	•	•
NEO FORZA	NMUD480E8-2800DD2A(XMP)	32GB (4x 8GB)	SS	-	-	2800-17-17-17-36	-	•	•
NEO FORZA	NMUD480E81-2800ED30	32GB (4x 8GB)	SS	-	-	2800-17-17-17-36	-	•	•
NEO FORZA	NMUD480E82-2800ED30	32GB (4x 8GB)	SS	-	-	2800-17-17-17-36	-	•	•
Team	TCD44G2800C16CBK(XMP)	4GB	SS	Team	T4D5128HT-30	16-18-18-38	1.2	•	•
Team	TLRED416G2800HC16CQC01	16GB(4GB*4)	SS	Team	T4D5128HT-30	16-18-18-38	1.2	•	•
Team	TLGD416G2800HC16CQC01	16GB(4GB*4)	SS	Team	T4D5128HT-30	16-18-18-38	1.2	•	•

Team	TDRED416G2800HC16CQC01	16GB(4GB*4)	SS	Team	T4D5128HT-30	16-18-18-38	1.2	•
Team	TDGED416G2800HC16CQC01	16GB(4GB*4)	SS	Team	T4D5128HT-30	16-18-18-38	1.2	•
Team	TLRED48G2800HC16CDC01	8GB(4GB*2)	SS	Team	T4D5128HT-30	16-18-18-38	1.2	•
Team	TLGD48G2800HC16CDC01	8GB(4GB*2)	SS	Team	T4D5128HT-30	16-18-18-38	1.2	•
Team	TDRED48G2800HC16CDC01	8GB(4GB*2)	SS	Team	T4D5128HT-30	16-18-18-38	1.2	•
Team	TDGED48G2800HC16CDC01	8GB(4GB*2)	SS	Team	T4D5128HT-30	16-18-18-38	1.2	•
Team	TFRD48G2800C16CBK(XMP)	8GB	DS	-	K4A4G085WSBCPB	16-18-18-38	1.2	•
Team	TLRED432G2800HC16CQC01	32GB(8GB*4)	DS	-	K4A4G085WSBCPB	16-18-18-38	1.2	•
Team	TLGD432G2800HC16CQC01	32GB(8GB*4)	DS	-	K4A4G085WSBCPB	16-18-18-38	1.2	•
Team	TDRED432G2800HC16CQC01	32GB(8GB*4)	DS	-	K4A4G085WSBCPB	16-18-18-38	1.2	•
Team	TDGED432G2800HC16CQC01	32GB(8GB*4)	DS	-	K4A4G085WSBCPB	16-18-18-38	1.2	•
Team	THRD432G2800HC16CQC01	32GB(8GB*4)	DS	-	K4A4G085WSBCPB	16-18-18-38	1.2	•
Team	THWD432G2800HC16CQC01	32GB(8GB*4)	DS	-	K4A4G085WSBCPB	16-18-18-38	1.2	•
Team	THBD432G2800HC16CQC01	32GB(8GB*4)	DS	-	K4A4G085WSBCPB	16-18-18-38	1.2	•
Team	TLRED416G2800HC16CDC01	16GB(8GB*2)	DS	-	K4A4G085WSBCPB	16-18-18-38	1.2	•
Team	TLGD416G2800HC16CDC01	16GB(8GB*2)	DS	-	K4A4G085WSBCPB	16-18-18-38	1.2	•
Team	TDRED416G2800HC16CDC01	16GB(8GB*2)	DS	-	K4A4G085WSBCPB	16-18-18-38	1.2	•
Team	TDGED416G2800HC16CDC01	16GB(8GB*2)	DS	-	K4A4G085WSBCPB	16-18-18-38	1.2	•
Team	THRD416G2800HC16CDC01	16GB(8GB*2)	DS	-	K4A4G085WSBCPB	16-18-18-38	1.2	•
Team	THWD416G2800HC16CDC01	16GB(8GB*2)	DS	-	K4A4G085WSBCPB	16-18-18-38	1.2	•
Team	THBD416G2800HC16CDC01	16GB(8GB*2)	DS	-	K4A4G085WSBCPB	16-18-18-38	1.2	•

8 DIMM Slots

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X299-Skylake-X-3000

DDR4 3000 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	DIMM socket support (Optional)	
								2 DIMM	4 DIMM
ADATA	AX4U3000316G16-BGZ(XMP)	16GB	DS	-	-	16-18-18-36	1.35	•	•
ADATA	AX4U300038G16-DBZ(XMP)	8GB	SS	-	-	16-18-18-36	1.35	•	•
ADATA	AX4U3000W4G16-BWZ(XMP)	4GB	SS	-	-	16-16-16-36	1.35	•	•
ADATA	AX4U3000W8G16-BWZ(XMP)	8GB	DS	-	-	16-16-16-36	1.35	•	•
Apacer	EK.16GAW.KFBK2(XMP)	8GB	DS	-	-	16-16-16-36	-	•	•
Apacer	AHU08GGB30CDG6H (EK.16GAZ.GEAK2)	16GB (2x 8GB)	SS	Apacer	-	16-16-16-36	1.35	•	•
Apacer	AHU08GGB30CDU5H (EK.16GAZ.GEBK2)	16GB (2x 8GB)	SS	Apacer	-	16-16-16-36	1.35	•	•
CORSAIR	CMD16GX4M2B3000C15(Ver4.23)(XMP)	16GB (2x 8GB)	DS	-	-	15-17-17-35	1.35	•	•
CORSAIR	CMD16GX4M2B3000C15(Ver5.30)(XMP)	16GB (2x 8GB)	SS	-	-	15-17-17-35	1.35	•	•
CORSAIR	CMD16GX4M4B3000C15(Ver4.23)(XMP)	16GB (4x 4GB)	SS	-	-	15-17-17-35	1.35	•	•
CORSAIR	CMD16GX4M4B3000C15(Ver5.29)(XMP)	16GB (4x 4GB)	DS	-	-	15-17-17-35	1.35	•	•
CORSAIR	CMD32GX4M4B3000C15(Ver4.23)(XMP)	32GB (4x 8GB)	DS	-	-	15-17-17-35	1.35	•	•
CORSAIR	CMD32GX4M4C3000C15(Ver5.30)(XMP)	32GB (4x 8GB)	SS	-	-	15-17-17-35	1.35	•	•
CORSAIR	CMK16GX4M2B3000C15(Ver4.23)(XMP)	16GB (2x 8GB)	DS	-	-	15-17-17-35	1.35	•	•
CORSAIR	CMK16GX4M2B3000C15(Ver5.30)(XMP)	16GB (2x 8GB)	SS	-	-	15-17-17-35	1.35	•	•
CORSAIR	CMK16GX4M4B3000C15(Ver5.29)(XMP)	16GB (4x 4GB)	SS	-	-	15-17-17-35	1.35	•	•
CORSAIR	CMK32GX4M2B3000C15(Ver4.31)(XMP)	32GB (2x 16GB)	DS	-	-	15-17-17-35	1.35	•	•
CORSAIR	CMK32GX4M4B3000C15(Ver4.24)(XMP)	32GB (4x 8GB)	DS	-	-	15-17-17-35	1.35	•	•
CORSAIR	CMK64GX4M4B3000C15(Ver4.31)(XMP)	64GB (4x 16GB)	DS	-	-	15-17-17-35	1.35	•	•
CORSAIR	CMK8GX4M2B3000C15(Ver4.23)(XMP)	8GB (2x 4GB)	DS	-	-	15-17-17-35	1.35	•	•
CORSAIR	CMR16GX4M2C3000C15(Ver4.31)(XMP)	16GB (2x 8GB)	SS	-	-	15-17-17-35	1.35	•	•
CORSAIR	CMR32GX4M4C3000C15(Ver4.31)(XMP)	32GB (4x 8GB)	SS	-	-	15-17-17-35	1.35	•	•
CORSAIR	CMU16GX4M2C3000C15(Ver3.21)(XMP)	16GB (2x 8GB)	DS	-	-	15-17-17-35	1.35	•	•
crucial	BLE4G4D30AEEA.K8FE(XMP)	4GB	SS	-	-	15-16-16-35	1.35	•	•
crucial	BLE8G4D30AEEA.K16FE(XMP)	8GB	DS	-	-	15-16-16-35	1.35	•	•
crucial	BLT4G4D30AETA.K8FE(XMP)	4GB	SS	-	-	15-16-16-35	1.35	•	•
crucial	BLT8G4D30AETA.K16FE(XMP)	8GB	DS	-	-	15-16-16-35	1.35	•	•
G.SKILL	F4-3000C14Q2-128GVK(XMP)	128GB (8x 16GB)	DS	-	-	14-14-14-34	1.35	•	•
G.SKILL	F4-3000C14Q2-128GVRD	128GB (8x 16GB)	DS	-	-	14-14-14-34	1.35	•	•
G.SKILL	F4-3000C14Q2-128GVKD	128GB (8x 16GB)	DS	-	-	14-14-14-34	1.35	•	•
G.SKILL	F4-3000C15D-8GTZB(XMP)	8GB (2x 4GB)	SS	-	-	15-16-16-35	1.35	•	•
G.SKILL	F4-3000C15D-8GTZB	8GB (2x 4GB)	SS	-	-	15-16-16-35	1.35	•	•
G.SKILL	F4-3000C15D-8GVRB	8GB (2x 4GB)	SS	-	-	15-16-16-35	1.35	•	•
G.SKILL	F4-3000C15Q-16GRK(XMP)	16GB (4x 4GB)	SS	-	-	15-15-15-35	1.35	•	•
G.SKILL	F4-3000C15Q-16GTZ	16GB (4x 4GB)	SS	-	-	15-15-15-35	1.35	•	•
G.SKILL	F4-3000C15Q-16GVR	16GB (4x 4GB)	SS	-	-	15-15-15-35	1.35	•	•
G.SKILL	F4-3000C15Q-16GVB	16GB (4x 4GB)	SS	-	-	15-15-15-35	1.35	•	•
G.SKILL	F4-3000C15Q-16GVK	16GB (4x 4GB)	SS	-	-	15-15-15-35	1.35	•	•
G.SKILL	F4-3000C15Q-16GVG	16GB (4x 4GB)	SS	-	-	15-15-15-35	1.35	•	•
G.SKILL	F4-3000C15Q-16GVS	16GB (4x 4GB)	SS	-	-	15-15-15-35	1.35	•	•
G.SKILL	F4-3000C15Q-16GRR(XMP)	16GB (4x 4GB)	SS	-	-	15-15-15-35	1.35	•	•
G.SKILL	F4-3000C15Q-32GRK(XMP)	32GB (4x 8GB)	DS	-	-	15-15-15-35	1.35	•	•
G.SKILL	F4-3000C15Q-32GTZ	32GB (4x 8GB)	DS	-	-	15-15-15-35	1.35	•	•
G.SKILL	F4-3000C15Q-32GVR	32GB (4x 8GB)	DS	-	-	15-15-15-35	1.35	•	•
G.SKILL	F4-3000C15Q-32GVB	32GB (4x 8GB)	DS	-	-	15-15-15-35	1.35	•	•
G.SKILL	F4-3000C15Q-32GVK	32GB (4x 8GB)	DS	-	-	15-15-15-35	1.35	•	•
G.SKILL	F4-3000C15Q-32GVG	32GB (4x 8GB)	DS	-	-	15-15-15-35	1.35	•	•
G.SKILL	F4-3000C15Q-32GVS	32GB (4x 8GB)	DS	-	-	15-15-15-35	1.35	•	•
G.SKILL	F4-3000C16Q2-128GVKB(XMP)	128GB (8x 16GB)	DS	-	-	16-18-18-38	1.35	•	•
GeIL	GLR416GB3000C16QC(XMP)	16GB (4x 4GB)	SS	-	-	16-16-16-36	1.35	•	•

GeIL	GWW416GB3000C15DC(XMP)	16GB (2x 8GB)	DS	GeIL	CG4L512G88BA093L	15-17-17-35	1.35	•	
Hyper X	HX430C15PB3K4/64(XMP)	64GB (4x 16GB)	DS	-	-	15-17-17-36	1.35	•	•
Hyper X	HX430C15SB2/4(XMP)	4GB	SS	-	-	15-17-17-39	1.35	•	•
Hyper X	HX430C15SB2K2/8(XMP)	8GB (2x 4GB)	SS	-	-	15-17-17-39	1.35	•	
Hyper X	HX430C15SB2K4/16(XMP)	16GB (4x 4GB)	SS	-	-	15-17-17-39	1.35	•	•
Hyper X	HX430C15SBK2/16(XMP)	16GB (2x 8GB)	DS	-	-	15-16-16-39	1.35	•	
Hyper X	HX430C16PBK4/64(XMP)	64GB (4x 16GB)	DS	-	-	16-16-16-39	1.35	•	•
Klevv	IM44GU48A30-FGGHAZ(XMP)	4GB	SS	-	-	15-15-16-36	1.35	•	•
Klevv	IM44GU48A30-GIIHMC(XMP)	4GB	SS	-	-	16-18-18-36	1.35	•	•
Klevv	IM44GU48N30-FFFHAB(XMP)	4GB	SS	-	-	15-15-16-36	1.2	•	•
Klevv	IM48GU48A30-GIIHMC(XMP)	8GB	DS	-	-	16-18-18-36	1.35	•	•
Klevv	IM48GU88A30-FGGHMZ(XMP)	8GB	DS	-	-	15-15-16-36	1.35	•	•
Klevv	IM4AGU88A30-FGGHMZ(XMP)	16GB	DS	-	-	15-15-16-36	1.35	•	•
Klevv	IM4AGU88N30-FFFHMB(XMP)	16GB	DS	-	-	15-15-16-36	1.2	•	•
NEO FORZA	NFMUD416E8-3000DB2A(XMP)	16GB	DS	-	-	15-17-17-35	-	•	•
NEO FORZA	NFMUD416E8-3000DB3A(XMP)	16GB	DS	-	-	15-17-17-35	-	•	•
NEO FORZA	NFMUD416E8-3000DC2A(XMP)	16GB	DS	-	-	15-17-17-35	-	•	•
NEO FORZA	NFMUD416E8-3000DC3A(XMP)	16GB	DS	-	-	15-17-17-35	-	•	•
NEO FORZA	NFMUD416E8-3000DD2A(XMP)	16GB	DS	-	-	15-17-17-35	-	•	•
NEO FORZA	NFMUD416E8-3000DD3A(XMP)	16GB	DS	-	-	15-17-17-35	-	•	•
NEO FORZA	NFMUD416E8-3000DH2A(XMP)	16GB	DS	-	-	15-17-17-35	-	•	•
NEO FORZA	NFMUD416E8-3000DH2A(XMP)	16GB	DS	-	-	15-17-17-35	-	•	•
NEO FORZA	NFMUD480E8-3000DB2A(XMP)	8GB	SS	-	-	15-17-17-35	-	•	•
NEO FORZA	NFMUD480E8-3000DB3A(XMP)	8GB	SS	-	-	15-17-17-35	-	•	•
NEO FORZA	NFMUD480E8-3000DC2A(XMP)	8GB	SS	-	-	15-17-17-35	-	•	•
NEO FORZA	NFMUD480E8-3000DC3A(XMP)	8GB	SS	-	-	15-17-17-35	-	•	•
NEO FORZA	NFMUD480E8-3000DD2A(XMP)	8GB	SS	-	-	15-17-17-35	-	•	•
NEO FORZA	NFMUD480E8-3000DD3A(XMP)	8GB	SS	-	-	15-17-17-35	-	•	•
NEO FORZA	NFMUD480E8-3000DH2A(XMP)	8GB	SS	-	-	15-17-17-35	-	•	•
NEO FORZA	NFMUD480E8-3000DH2A(XMP)	8GB	SS	-	-	15-17-17-35	-	•	•
PATRIOT	PV416G300C6QK(XMP)	16GB (4x 4GB)	SS	-	-	16-16-16-36	1.35	•	•
PATRIOT	PVE416G300C6KBL(XMP)	16GB (2x 8GB)	SS	-	-	16-16-16-36	-	•	
PATRIOT	PVE48G300C6KRD(XMP)	8GB (2x 4GB)	SS	-	-	16-16-16-36	-	•	
Team	TCD44G3000C16CBK(XMP)	4GB	SS	Team	T4D5128HT-30	16-18-18-38	1.35	•	•
Team	TLRED416G3000HC16CQC01	16GB(4GB*4)	SS	Team	T4D5128HT-30	16-18-18-38	1.35	•	•
Team	TLGD416G3000HC16CQC01	16GB(4GB*4)	SS	Team	T4D5128HT-30	16-18-18-38	1.35	•	•
Team	TDRED416G3000HC16CQC01	16GB(4GB*4)	SS	Team	T4D5128HT-30	16-18-18-38	1.35	•	•
Team	TDGED416G3000HC16CQC01	16GB(4GB*4)	SS	Team	T4D5128HT-30	16-18-18-38	1.35	•	•
Team	TLRED48G3000HC16CDC01	8GB(4GB*2)	SS	Team	T4D5128HT-30	16-18-18-38	1.35	•	•
Team	TLGD48G3000HC16CDC01	8GB(4GB*2)	SS	Team	T4D5128HT-30	16-18-18-38	1.35	•	•
Team	TDRED48G3000HC16CDC01	8GB(4GB*2)	SS	Team	T4D5128HT-30	16-18-18-38	1.35	•	•
Team	TDGED48G3000HC16CDC01	8GB(4GB*2)	SS	Team	T4D5128HT-30	16-18-18-38	1.35	•	•
Team	TFRD48G3000C16CBK(XMP)	8GB	DS	-	K4A4G085WSBCPB	16-18-18-38	1.35	•	•
Team	TLRED432G3000HC16CQC01	32GB(8GB*4)	DS	-	K4A4G085WSBCPB	16-18-18-38	1.35	•	•
Team	TLGD432G3000HC16CQC01	32GB(8GB*4)	DS	-	K4A4G085WSBCPB	16-18-18-38	1.35	•	•
Team	TDRED432G3000HC16CQC01	32GB(8GB*4)	DS	-	K4A4G085WSBCPB	16-18-18-38	1.35	•	•
Team	TDGED432G3000HC16CQC01	32GB(8GB*4)	DS	-	K4A4G085WSBCPB	16-18-18-38	1.35	•	•
Team	TDPRD432G3000HC16CQC01	32GB(8GB*4)	DS	-	K4A4G085WSBCPB	16-18-18-38	1.35	•	•
Team	TDPGD432G3000HC16CQC01	32GB(8GB*4)	DS	-	K4A4G085WSBCPB	16-18-18-38	1.35	•	•
Team	THRD432G3000HC16CQC01	32GB(8GB*4)	DS	-	K4A4G085WSBCPB	16-18-18-38	1.35	•	•
Team	THWD432G3000HC16CQC01	32GB(8GB*4)	DS	-	K4A4G085WSBCPB	16-18-18-38	1.35	•	•
Team	THBD432G3000HC16CQC01	32GB(8GB*4)	DS	-	K4A4G085WSBCPB	16-18-18-38	1.35	•	•
Team	TDTRD432G3000HC16CQC01	32GB(8GB*4)	DS	-	K4A4G085WSBCPB	16-18-18-38	1.35	•	•
Team	TDTWD432G3000HC16CQC01	32GB(8GB*4)	DS	-	K4A4G085WSBCPB	16-18-18-38	1.35	•	•
Team	TDTBD432G3000HC16CQC01	32GB(8GB*4)	DS	-	K4A4G085WSBCPB	16-18-18-38	1.35	•	•
Team	TLRED416G3000HC16CDC01	16GB(8GB*2)	DS	-	K4A4G085WSBCPB	16-18-18-38	1.35	•	•
Team	TLGD416G3000HC16CDC01	16GB(8GB*2)	DS	-	K4A4G085WSBCPB	16-18-18-38	1.35	•	•
Team	TDRED416G3000HC16CDC01	16GB(8GB*2)	DS	-	K4A4G085WSBCPB	16-18-18-38	1.35	•	•
Team	TDGED416G3000HC16CDC01	16GB(8GB*2)	DS	-	K4A4G085WSBCPB	16-18-18-38	1.35	•	•
Team	TDPRD416G3000HC16CDC01	16GB(8GB*2)	DS	-	K4A4G085WSBCPB	16-18-18-38	1.35	•	•
Team	TDPRD416G3000HC16CDC01	16GB(8GB*2)	DS	-	K4A4G085WSBCPB	16-18-18-38	1.35	•	•

Team	TDPGD416G3000HC16CDC01	16GB(8GB*2)	DS	-	K4A4G085WSBCPB	16-18-18-38	1.35	•
Team	THRD416G3000HC16CDC01	16GB(8GB*2)	DS	-	K4A4G085WSBCPB	16-18-18-38	1.35	•
Team	THWD416G3000HC16CDC01	16GB(8GB*2)	DS	-	K4A4G085WSBCPB	16-18-18-38	1.35	•
Team	THBD416G3000HC16CDC01	16GB(8GB*2)	DS	-	K4A4G085WSBCPB	16-18-18-38	1.35	•
Team	TDTRD416G3000HC16CDC01	16GB(8GB*2)	DS	-	K4A4G085WSBCPB	16-18-18-38	1.35	•
Team	TDTWD416G3000HC16CDC01	16GB(8GB*2)	DS	-	K4A4G085WSBCPB	16-18-18-38	1.35	•
Team	TD TBD416G3000HC16CDC01	16GB(8GB*2)	DS	-	K4A4G085WSBCPB	16-18-18-38	1.35	•
Team	TFWD416G3000C16CBK(XMP)	16GB	DS	Team	T4D10248HT-30	16-18-18-38	1.35	•
Team	TDP RD464G3000HC16CQC01	64GB(16GB*4)	DS	Team	T4D10248HT-30	16-18-18-38	1.35	•
Team	TDP GD464G3000HC16CQC01	64GB(16GB*4)	DS	Team	T4D10248HT-30	16-18-18-38	1.35	•
Team	THRD464G3000HC16CQC01	64GB(16GB*4)	DS	Team	T4D10248HT-30	16-18-18-38	1.35	•
Team	THWD464G3000HC16CQC01	64GB(16GB*4)	DS	Team	T4D10248HT-30	16-18-18-38	1.35	•
Team	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	TD TBD464G3000HC16CQC01	64GB(16GB*4)	DS	Team	T4D10248HT-30	16-18-18-38	1.35	•
Team	TDP RD432G3000HC16CDC01	32GB(16GB*2)	DS	Team	T4D10248HT-30	16-18-18-38	1.35	•
Team	TDP GD432G3000HC16CDC01	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	TD TBD432G3000HC16CDC01	32GB(16GB*2)	DS	Team	T4D10248HT-30	16-18-18-38	1.35	•

8 DIMM Slots

-When installing total memory of 4GB capacity or more, Windows 32-bit operation system may only recognize less than 3GB. Hence, a total installed memory of less than 3GB is recommended.

-It is recommended to install the memory modules from the slots for better overclocking capability.

-The default DIMM frequency depends on its Serial Presence Detect (SPD), which is the standard way of accessing information from a memory module. Under the default state, some memory modules for overclocking may operate at a lower frequency than the vendor-marked value.

-Memory module with memory frequency higher than 2133 MHz and its corresponding timing or the loaded XMP Profile is not the JEDEC memory standard. The stability and compatibility of these memory modules depend on the CPU's capabilities and other installed devices.

-Always install DIMMs with the same CAS latency. For optimal compatibility, we recommend that you install memory modules of the same version or date code (D/C) from the same vendor. Check with the retailer to get the correct memory modules.