

DDR4 2133 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	DIMM socket support (Optional)		
								1 DIMM	2 DIMM	4 DIMM
SAMSUNG	M378A5143DB0-CPB	4GB	SS	SEC 428 BCPB	K4A4G085WD	15-15-15-36	1.2V	*	*	*
SAMSUNG	M378A1G43DB0-CPB	8GB	DS	SEC 428 BCPB	K4A4G085WD	15-15-15-36	1.2V	*	*	*
G.SKILL	F4-2133C15Q-32GRK	32GB(8GB*4)	DS	N/A	Heat-Sink Package	15-15-15-35	1.2V	*	*	*
GLOWAY	PC4-17000	4GB	SS	N/A	Heat-Sink Package	15-15-15-35	1.2V	*	*	*
HyperX	HX421C13PBK4/16	16GB(4GB*4)	SS	N/A	Heat-Sink Package	15-15-15-36	1.2V	*	*	*
PANRAM	PUD42133C138G4NJW	32GB(8GB*4)	DS	N/A	Heat-Sink Package	13-13-13-35	1.2V	*	*	*
PANRAM	PUD42133C134G4NJW	16GB(4GB*4)	SS	N/A	Heat-Sink Package	13-13-13-35	1.2V	*	*	*
CORSAIR	CMK16GX4M4A2133C15	16GB(4GB*4)	SS	N/A	Heat-Sink Package	15-15-15-36	1.2V	*	*	*
CRUCIAL	MTA8ATF51264AZ-2G1A1	4GB	SS	MICRON	4QA77D9RCQ	15-15-15-36	1.2V	*	*	*
CORSAIR	CMV4GX4M1A2133C15	4GB	SS	N/A	4GA7229RGR	15-15-15-36	1.2V	*	*	*
CORSAIR	CMV8GX4M1A2133C15	8GB	DS	SEC 446 BCPB	K4A4G085WD	15-15-15-36	1.2V	*	*	*
HyperX	HX421C14FB/8	8GB	DS	N/A	Heat-Sink Package	14-14-14-35	1.2V	*	*	*
TEAM	TED44GM2133C15BK	8GB	DS	SEC 437BCBP	K4A4G085WD	15-15-15-36	1.2V	*	*	*
HyperX	HX421C13SBK4/32	32GB(8GB*4)	DS	N/A	Heat-Sink Package	15-15-15-36	1.2V	*	*	*
HyperX	HX421C13SBK4/16	16GB(4GB*4)	SS	N/A	Heat-Sink Package	15-15-15-36	1.2V	*	*	*
KINGSTON	KVR21N15D8/8	8GB	DS	SK HYNIX	H5AN4G8NAFR	15-15-15-36	1.2V	*	*	*
GALAXY	GAM4DBLBM2133D15IE041C	4GB	DS	N/A	Heat-Sink Package	15-15-15-36	1.2V	*	*	*
Silicon Power	SP004GBLFU2113N02	4GB	SS	SP	4N4083HMBE S1543X	15-15-15-36	1.2V	*	*	*
GALAXY	GAM4DBLBM2133I5IE081C	8GB	DS	N/A	Heat-Sink Package	15-15-15-35	1.2V	*	*	*
AVEXIR	AVD4U21331508G-1COB	8GB	DS	N/A	Heat-Sink Package	15-15-15-35	1.2V	*	*	*
CORSAIR	CMK16GX4M4A2133C13	16GB(4GB*4)	SS	N/A	Heat-Sink Package	13-15-15-28	1.2V	*	*	*
GEIL	GPR48GB2133C15DC	8GB(4GB*2)	SS	N/A	Heat-Sink Package	15-15-15-36	1.2V	*	*	*
HyperX	HX421C14FBK4/32	32GB(8GB*4)	DS	N/A	Heat-Sink Package	14-14-14-35	1.2V	*	*	*
TEKISM	T4U2133B8G15-SAD	8GB	DS	SEC 446 BCPB	K4A4G085WD	15-15-15-36	1.2V	*	*	*
G.SKILL	F4-2133C15Q-16GRB	16GB(4GB*4)	SS	N/A	Heat-Sink Package	15-15-15-35	1.2V	*	*	*
KINGSTON	KVR21N15S8/4	4GB	SS	SK HYNIX	H5AN4G8NMFR	15-15-15-36	1.2V	*	*	*
AMD	R748G2133U2S	8GB	DS	N/A	Heat-Sink Package	15-15-15-36	1.2V	*	*	*
ADATA	AX4U2133W4G15-QRZ	16GB(4GB*4)	SS	N/A	Heat-Sink Package	15-15-15	1.2V	*	*	*
TEAM	TED48GM2133C15BK	8GB	DS	SK HYNIX	H5AN4G8NMFR	15-15-15-36	1.2V	*	*	*
ADATA	AD4U2133W8G15-B	128GB(8GB*16)	DS	SK HYNIX	H5AN4G8NAFR			*	*	*
CRUCIAL	CT8G4DFD8213.16FA11	32GB(8GB*4)	DS	MICRO	5CA77D9RGQ		1.2V	*	*	*
KINGSTON	KVR21E15S8/4	4GB	SS	SK HYNIX	H5AN4G8NAFR		1.2V	*	*	*
G.SKILL	F4-2133C155-4GNT	4GB	SS	G.SKILL	D4 512M8GE15	15-15-15-35	1.2V	*	*	*
TEAM	TPAD44G2133HC15BK	4GB	SS	N/A	Heat-Sink Package	15-15-15-36	1.2V	*	*	*
APACER	AHU08GG813CGT7G	8GB	DS	N/A	Heat-Sink Package			*	*	*
ASINT	SLB404G08-CCN2B 1615	8GB	DS	SK HYNIX	H5AN4G8NMFR			*	*	*
PATRIOT	PSD44G213381	4GB	SS	PAIROT	1621B5454512X8DDR4			*	*	*
PATRIOT	PSD48G21332	8GB	DS	PAIROT	PM512M8D4BU-083			*	*	*
APACER	AU08GG813CDBT8G	8GB	DS	APACER	AM6F6008THSA11550F			*	*	*
SAMSUNG	M378A1K43BB1-CPB	8GB	SS	SEC 610	K4A8G085WBBCPB			*	*	*
HyperX	HX421C14FB2/8	8GB	SS	N/A	Heat-Sink Package		1.2V	*	*	*
HyperX	HX421C14FBK2/8	8GB(4GB*2)	SS	N/A	Heat-Sink Package		1.2V	*	*	*
HyperX	HX421C14FB/4	4GB	SS	N/A	Heat-Sink Package		1.2V	*	*	*
KINGSTON	KVR21N15S8/8	8GB	SS	MIRCON	6HB77D9TBH		1.2V	*	*	*
GEIL	8G2133C151.2V	8GB	DS	GEIL	512X8DDR4Y		1.2V	*	*	*
V-COLOR	TC48G21S818-IMS	32GB(8GB*4)	SS	V-COLOR	N/A		1.2V	*	*	*
GOMOS	GRR-D4-2400-8GB	8GB	SS	GOMOS	GD4N8G8F-UH		1.2V	*	*	*
TEAM	TED416G2133C15BK	16GB	DS	TEAM	T4D10248MT-21	15-15-15-36	1.2V	*	*	*
TIGO	TMKU8GF58-2133P	8GB	DS	N/A	PPE08-093TP		1.2V	*	*	*
SAMSUNG	M378A5143EB1-CPB	4GB	SS	SEC 637	E8G2250WP			*	*	*
TEAM	TED48G2133C15BK	8GB	SS	TEAM	T4D10248KT-21	15-15-15-36	1.2V	*	*	*
ANUCCELL	GRPIF1621033818594	8GB	DS	ANUCCELL	P4P4GF3BLF-GMT	15-15-15-35	1.2V	*	*	*
GALAXY	GAL4AXLBM2133I5IE081C	8GB	SS	GALAXY	GA4L1GM888A093H	15-15-15-35	1.2V	*	*	*
TIGO	TMKU8G868-2133P	8GB	SS		PP020-093E TP			*	*	*
Xiede	1.2V-PC4-17000-1620	4GB	SS	MICON	6GA77D9RCQ			*	*	*
V-COLOR	TC48G21S815	8GB	SS	V-COLOR	TMCB134HA3	15-15-15-35	1.2V	*	*	*
V-COLOR	TC48G21S815-IMS	8GB	SS	V-COLOR	E0510	15-15-15-35	1.2V	*	*	*
SAMSUNG	M378A2K43BB1CPB	16GB	DS	SEC510	K4A8G085WBBCPB	15-15-15-36	1.2V	*	*	*
G.SKILL	F4-2133C15Q-32GRR	32GB(8GB*4)	SS	N/A	Heat-Sink Package	15-15-15-36	1.20V	*	*	*
G.SKILL	F4-2133C15Q2-64GRR	8G*8	SS	N/A	Heat-Sink Package	15-15-15-36	1.20V	*	*	*
HyperX	HX421C135B/4(XMP)	4GB	SS	-	-	13-13-13-36	1.2V	*	*	*
HyperX	HX421C135B/8(XMP)	8GB	DS	-	-	13-13-13-36	1.2V	*	*	*
HyperX	HX421C135BK2/16(XMP)	16GB(8GB*2)	DS	-	-	13-13-13-36	1.2V	*	*	*
HyperX	HX421C135BK2/8(XMP)	8GB(4GB*2)	SS	-	-	13-13-13-36	1.2V	*	*	*
HyperX	HX421C135BK4/16(XMP)	16GB(4GB*4)	SS	-	-	13-13-13-36	1.2V	*	*	*
HyperX	HX421C135BK4/32(XMP)	32GB(8GB*4)	DS	-	-	13-13-13-36	1.2V	*	*	*
HyperX	HX421C14FBK4/32(XMP)	32GB(8GB*4)	SS	-	-	14-14-14-35	1.2V	*	*	*
HyperX	HX421C14FBK2/16(XMP)	16GB(8GB*2)	DS	-	-	14-14-14-35	1.2V	*	*	*
HyperX	HX421C14FBK4/16(XMP)	16GB(4GB*4)	SS	-	-	14-14-14-35	1.2V	*	*	*
HyperX	HX421C14FBK4/64	64GB(16GB*4)	DS	-	-	15-15-15-35	1.2V	*	*	*
HyperX	HX421C14FBK8/64(XMP)	64GB(8GB*8)	DS	-	-	14-14-14-35	1.2V	*	*	*
Kingston	KVR21N15D8/16	16GB	DS	Micron	D9TBH	15-15-15-36	1.2V	*	*	*
AVEXIR	AVD4U21331504G-1BW	4GB(4GB*1)	SS	AVEXIR	512X8DDR4	15-15-15-35	1.2V	*	*	*
AVEXIR	AVD4U2121331504G-1COR	4GB(4GB*1)	SS	AVEXIR	512X8DDR4	15-15-15-35	1.2V	*	*	*
AVEXIR	AVD4U2121331504G-1COB	4GB(4GB*1)	SS	AVEXIR	512X8DDR4	15-15-15-35	1.2V	*	*	*
AVEXIR	AVD4U2121331504G-1COW	4GB(4GB*1)	SS	AVEXIR	512X8DDR4	15-15-15-35	1.2V	*	*	*
AVEXIR	AVD4U2121331504G-1COY	4GB(4GB*1)	SS	AVEXIR	512X8DDR4	15-15-15-35	1.2V	*	*	*
AVEXIR	AVD4U2121331504G-1COG	4GB(4GB*1)	SS	AVEXIR	512X8DDR4	15-15-15-35	1.2V	*	*	*
AVEXIR	AVD4U2121331504G-1COO	4GB(4GB*1)	SS	AVEXIR	512X8DDR4	15-15-15-35	1.2V	*	*	*
AVEXIR	AVD4U2121331504G-1CWW	4GB(4GB*1)	SS	AVEXIR	512X8DDR4	15-15-15-35	1.2V	*	*	*
AVEXIR	AVD4U2121331504G-2COR	8GB(4GB*2)	SS	AVEXIR	512X8DDR4	15-15-15-35	1.2V	*	*	*
AVEXIR	AVD4U2121331504G-2COB	8GB(4GB*2)	SS	AVEXIR	512X8DDR4	15-15-15-35	1.2V	*	*	*

AVEXIR	AVD4UZ121331504G-2COW	8GB(4GB*2)	SS	AVEXIR	512X8DDR4	15-15-15-35	1.2V	*	*	*
AVEXIR	AVD4UZ121331504G-2COY	8GB(4GB*2)	SS	AVEXIR	512X8DDR4	15-15-15-35	1.2V	*	*	*
AVEXIR	AVD4UZ121331504G-2COG	8GB(4GB*2)	SS	AVEXIR	512X8DDR4	15-15-15-35	1.2V	*	*	*
AVEXIR	AVD4UZ121331504G-2COO	8GB(4GB*2)	SS	AVEXIR	512X8DDR4	15-15-15-35	1.2V	*	*	*
AVEXIR	AVD4UZ121331504G-2CWWW	8GB(4GB*2)	SS	AVEXIR	512X8DDR4	15-15-15-35	1.2V	*	*	*
AVEXIR	AVD4UZ121331504G-4COR	16GB(4GB*4)	SS	AVEXIR	512X8DDR4	15-15-15-35	1.2V	*	*	*
AVEXIR	AVD4UZ121331504G-4COB	16GB(4GB*4)	SS	AVEXIR	512X8DDR4	15-15-15-35	1.2V	*	*	*
AVEXIR	AVD4UZ121331504G-4COW	16GB(4GB*4)	SS	AVEXIR	512X8DDR4	15-15-15-35	1.2V	*	*	*
AVEXIR	AVD4UZ121331504G-4COY	16GB(4GB*4)	SS	AVEXIR	512X8DDR4	15-15-15-35	1.2V	*	*	*
AVEXIR	AVD4UZ121331504G-4COG	16GB(4GB*4)	SS	AVEXIR	512X8DDR4	15-15-15-35	1.2V	*	*	*
AVEXIR	AVD4UZ121331504G-4COO	16GB(4GB*4)	SS	AVEXIR	512X8DDR4	15-15-15-35	1.2V	*	*	*
AVEXIR	AVD4UZ121331504G-4CWWW	16GB(4GB*4)	SS	AVEXIR	512X8DDR4	15-15-15-35	1.2V	*	*	*
AVEXIR	AVD4U21331508G-1BW	8GB(8GB*1)	DS	AVEXIR	512X8DDR4	15-15-15-35	1.2V	*	*	*
AVEXIR	AVD4UZ121331508G-1COR	8GB(8GB*1)	DS	AVEXIR	512X8DDR4	15-15-15-35	1.2V	*	*	*
AVEXIR	AVD4UZ121331508G-1COB	8GB(8GB*1)	DS	AVEXIR	512X8DDR4	15-15-15-35	1.2V	*	*	*
AVEXIR	AVD4UZ121331508G-1COW	8GB(8GB*1)	DS	AVEXIR	512X8DDR4	15-15-15-35	1.2V	*	*	*
AVEXIR	AVD4UZ121331508G-1COY	8GB(8GB*1)	DS	AVEXIR	512X8DDR4	15-15-15-35	1.2V	*	*	*
AVEXIR	AVD4UZ121331508G-1COG	8GB(8GB*1)	DS	AVEXIR	512X8DDR4	15-15-15-35	1.2V	*	*	*
AVEXIR	AVD4UZ121331508G-1COO	8GB(8GB*1)	DS	AVEXIR	512X8DDR4	15-15-15-35	1.2V	*	*	*
AVEXIR	AVD4UZ121331508G-1CWWW	8GB(8GB*1)	DS	AVEXIR	512X8DDR4	15-15-15-35	1.2V	*	*	*
AVEXIR	AVD4UZ121331508G-2COR	16GB(8GB*2)	DS	AVEXIR	512X8DDR4	15-15-15-35	1.2V	*	*	*
AVEXIR	AVD4UZ121331508G-2COB	16GB(8GB*2)	DS	AVEXIR	512X8DDR4	15-15-15-35	1.2V	*	*	*
AVEXIR	AVD4UZ121331508G-2COW	16GB(8GB*2)	DS	AVEXIR	512X8DDR4	15-15-15-35	1.2V	*	*	*
AVEXIR	AVD4UZ121331508G-2COY	16GB(8GB*2)	DS	AVEXIR	512X8DDR4	15-15-15-35	1.2V	*	*	*
AVEXIR	AVD4UZ121331508G-2COG	16GB(8GB*2)	DS	AVEXIR	512X8DDR4	15-15-15-35	1.2V	*	*	*
AVEXIR	AVD4UZ121331508G-2COO	16GB(8GB*2)	DS	AVEXIR	512X8DDR4	15-15-15-35	1.2V	*	*	*
AVEXIR	AVD4UZ121331508G-2CWWW	16GB(8GB*2)	DS	AVEXIR	512X8DDR4	15-15-15-35	1.2V	*	*	*
AVEXIR	AVD4UZ121331508G-4COR	32GB(8GB*4)	DS	AVEXIR	512X8DDR4	15-15-15-35	1.2V	*	*	*
AVEXIR	AVD4UZ12133150G-4COB	32GB(8GB*4)	DS	AVEXIR	512X8DDR4	15-15-15-35	1.2V	*	*	*
AVEXIR	AVD4UZ121331508G-4COW	32GB(8GB*4)	DS	AVEXIR	512X8DDR4	15-15-15-35	1.2V	*	*	*
AVEXIR	AVD4UZ121331508G-4COY	32GB(8GB*4)	DS	AVEXIR	512X8DDR4	15-15-15-35	1.2V	*	*	*
AVEXIR	AVD4UZ121331508G-4COG	32GB(8GB*4)	DS	AVEXIR	512X8DDR4	15-15-15-35	1.2V	*	*	*
AVEXIR	AVD4UZ121331508G-4COO	32GB(8GB*4)	DS	AVEXIR	512X8DDR4	15-15-15-35	1.2V	*	*	*
AVEXIR	AVD4UZ121331508G-4CWWW	32GB(8GB*4)	DS	AVEXIR	512X8DDR4	15-15-15-35	1.2V	*	*	*
G.SKILL	F4-2133C15Q-16GVR	16GB(4GB*4)	SS			15-15-15-35	1.2	*	*	*
G.SKILL	F4-2133C15Q-16GVB	16GB(4GB*4)	SS			15-15-15-35	1.2	*	*	*
G.SKILL	F4-2133C15Q-16GVG	16GB(4GB*4)	SS			15-15-15-35	1.2	*	*	*
G.SKILL	F4-2133C15Q-16GVK	16GB(4GB*4)	SS			15-15-15-35	1.2	*	*	*
G.SKILL	F4-2133C15Q-16GVS	16GB(4GB*4)	SS			15-15-15-35	1.2	*	*	*
G.SKILL	F4-2133C15Q-16GRK	16GB(4GB*4)	SS			15-15-15-35	1.2	*	*	*
G.SKILL	F4-2133C15Q2-128GVR	128GB(16GB*8)	DS			15-15-15-35	1.2	*	*	*
G.SKILL	F4-2133C15Q2-64GRB	64GB(8GB*8)	DS			15-15-15-35	1.2	*	*	*
G.SKILL	F4-2133C15Q-32GVR	32GB(8GB*4)	DS			15-15-15-35	1.2	*	*	*
G.SKILL	F4-2133C15Q-32GVB	32GB(8GB*4)	DS			15-15-15-35	1.2	*	*	*
G.SKILL	F4-2133C15Q-32GVG	32GB(8GB*4)	DS			15-15-15-35	1.2	*	*	*
G.SKILL	F4-2133C15Q-32GVK	32GB(8GB*4)	DS			15-15-15-35	1.2	*	*	*
G.SKILL	F4-2133C15Q-32GVS	32GB(8GB*4)	DS			15-15-15-35	1.2	*	*	*
G.SKILL	F4-2133C15Q-32GRB	32GB(8GB*4)	DS			15-15-15-35	1.2	*	*	*
Apacer	78.B1GM3.AF00B	16GB(4GB*4)	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	AU08GGB13CDVBGC (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(8GB*4)	DS	SK hynix	H5AN4G8NMFRFTFC	15-15-15-35	1.2	*	*	*
CORSAIR	CMD16GX4M4B2133C10	16GB(4GB*4)	SS	-	-	10-12-12-31	1.35	*	*	*
CORSAIR	CMK32GX4M4A2133C13	32GB(16GB*2)	DS	-	-	13-15-15-28	1.2	*	*	*
CORSAIR	CMK32GX4M4A2133C13	32GB(8GB*4)	DS	-	-	13-15-15-28	1.2	*	*	*
CORSAIR	CMK32GX4M4A2133C15	32GB(8GB*4)	DS	-	-	15-15-15-36	1.2	*	*	*
CORSAIR	CMK64GX4M8A2133C13	64GB(8GB*8)	DS	-	-	13-15-15-28	1.2	*	*	*
CORSAIR	CMV16GX4M1A2133C15	16GB	DS	-	-	15-15-15-36	1.2	*	*	*
Crucial	CT16G4DFD8213.16FB1	16GB	DS	Micron	D9TBH	15-15-15-36	1.2	*	*	*
Crucial	CT4G4DFS8213.8FA1	4GB	SS	Micron	D9RGQ	15-15-15-37	1.2	*	*	*
Crucial	CT4G4DFS8213.8FA2	4GB	SS	Micron	D9RGQ	15-15-15-36	1.2	*	*	*
Crucial	CT8G4DFD8213.16FA1	8GB	DS	Micron	D9RGQ	15-15-15-37	1.2	*	*	*
Crucial	CT8G4DFD8213.16FA2	8GB	DS	Micron	D9RGQ	15-15-15-36	1.2	*	*	*
Crucial	CT8G4DFD8213.C16FAR11	8GB	DS	Micron	C9BDH	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(4GB*4)	SS	-	-	15-15-15-35	1.2	*	*	*
G.SKILL	F4-2133C15Q2-128GVK	128GB(16GB*8)	DS	-	-	15-15-15-35	1.2	*	*	*
GeIL	GPR416GB2133C15QC	16GB(4GB*4)	SS	-	-	15-15-15-36	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(4GB*4)	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(8GB*4)	DS	-	-	15-15-15-35	1.2	*	*	*
Micron	MTA16ATF1G64AZ-2G1A2	8GB	DS	Micron	D9RGO	15-15-15-36	-	*	*	*
Micron	MTA16ATF2G64AZ-2G1B1	16GB	DS	Micron	D9TBH	15-15-15-36	1.2	*	*	*
Micron	MTA8ATF1G64AZ-2G1B1	8GB	SS	-	-	15-15-15-36	1.2	*	*	*
Micron	MTA8ATF51264AZ-2G1A2	4GB	SS	Micron	D9RGO	15-15-15-36	-	*	*	*
Samsung	M378A5143DB0-CPB	4GB	SS	Samsung	K4A4G085WD	15-15-15-36	1.2	*	*	*
SanMax	SMD-4G28HP-21P	4GB	SS	SK Hynix	H5AN4G8NMFRFTFC	15-15-15-37	-	*	*	*
SanMax	SMD-8G28HP-21P	8GB	DS	SK Hynix	H5AN4G8NMFRFTFC	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	HMA41G1U7AFR8N-TF	8GB	DS	SK Hynix	H5AN4G8NAFRFC	15-15-15-36	-	*	*	*
SK Hynix	HMA451U7AFR8N-TF	4GB	SS	SK Hynix	H5AN4G8NAFR	15-15-15-36	-	*	*	*
SK Hynix	HMA82G6MFR8N-TF	16GB	DS	SK Hynix	H5AN8G8NMFRFC	15-15-15-36	-	*	*	*
SK Hynix	HMA82GU7MFR8N-TF	16GB	DS	SK Hynix	H5AN8G8NMFR	15-15-15-36	-	*	*	*
SUPER TALENT	FBU2B008GM	8GB	DS	Micron	D9RGQ	15-15-15-36	1.2	*	*	*
Team	TED44GM2133C15ABK	4GB	SS	SK Hynix	H5AN4G8NMFRFC	15-15-15-36	1.2	*	*	*
Transcend	TS1GLH64V1H	8GB	DS	Samsung	K4A4G085WE	15-15-15-36	-	*	*	*
Transcend	TS2GLH64V1B	16GB	DS	Samsung	K4A8G085WB	15-15-15-36	-	*	*	*
Transcend	TS512MLH64V1H	4GB	SS	Samsung	K4A4G085WE	15-15-15-36	-	*	*	*
UMAX	84G44G93MC-210MCALGF15	4GB	SS	Micron	D9RGQ	15-15-15-36	-	*	*	*
UMAX	84G48G93MC-210MCGNGF15	8GB	DS	Micron	D9RGQ	15-15-15-36	-	*	*	*

DDR4 2400 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	DIMM socket support (Optional)		
								1 DIMM	2 DIMM	4 DIMM
ADATA	AX4U2400W8G16-DRZ	8GB	DS	N/A	Heat-Sink Package	16-16-16	1.2V	*	*	*
G.SKILL	F4-2400C15Q-32GRB	32GB(8GB*4)	DS	N/A	Heat-Sink Package	15-15-15-35	1.2V	*	*	*
PATRIOT	PX416G240C5QK	4GB	SS	N/A	Heat-Sink Package	15-15-15-35	1.2V	*	*	*
GLOWAY	PC4-19200	4GB	DS	N/A	Heat-Sink Package	16-16-16-35	1.2V	*	*	*
TEAM	TED44GM2400C16BK	4GB	SS	SEC 437 BCPB	K4A4G085WD	16-16-16-39	1.2V	*	*	*
TEAM	TED48GM2400C16BK	8GB	DS	SEC 443 BCPB	K4A4G085WD	16-16-16-39	1.2V	*	*	*
PANRAM	PUD42400C154G4NJW	16GB(4GB*4)	SS	N/A	Heat-Sink Package	15-15-15-35	1.2V	*	*	*
PANRAM	PUD42400C158G4NJW	8GB	DS	N/A	Heat-Sink Package	15-15-15-35	1.2V	*	*	*
CORSAIR	CMK32GX4M4A2400C14	8GB	DS	N/A	Heat-Sink Package	14-16-16-31	1.2V	*	*	*
CRUCIAL	BLS4K4G4D240FSA	4GB	SS	N/A	Heat-Sink Package	16-16-16-39	1.2V	*	*	*
ADATA	AX4U2400W4G16-DRZ	4GB	SS	N/A	Heat-Sink Package	16-16-16	1.2V	*	*	*
GEIL	GPR416GB2400C15QC	4GB	SS	N/A	Heat-Sink Package	15-15-15-35	1.2V	*	*	*
MUSHKIN	997199F	8GB	DS	N/A	Heat-Sink Package	15-15-15-35-50	1.2V	*	*	*
HyperX	HX424C15FBK4/32	32GB(8GB*4)	DS	N/A	Heat-Sink Package	15-15-15-35-56	1.2V	*	*	*
APACER	78.C1GMA.AF30B	8GB	DS	SK HYNIX	H5AN4G8NMFR	16-16-16-36	1.2V	*	*	*
PNY	MD16GK2D4240015AB	16GB(8GB*2)	DS	N/A	Heat-Sink Package		1.2V	*	*	*
V-COLOR	TD8G16C16-UHK	16GB(8GB*2)	DS	N/A	Heat-Sink Package	16-16-16-35	1.2V	*	*	*
TEAM	TPAD48G2400HC16BK	8GB	DS	N/A	Heat-Sink Package	16-16-16-39	1.2V	*	*	*
G.SKILL	F4-2400C15D-169GVR	16GB(8GB*2)	DS	N/A	Heat-Sink Package	15-15-15-35	1.2V	*	*	*
APACER	AHU08GGB24CDT7G	8GB	DS	N/A	Heat-Sink Package	16-16-16-36		*	*	*
CORSAIR	CM4X8GE2400C14K4-CN	8GB	DS	N/A	Heat-Sink Package	14-16-16-31	1.2V	*	*	*
CORSAIR	CMK8GX4M1A2400C14	8GB	DS	N/A	Heat-Sink Package	14-16-16-31	1.2V	*	*	*
PATRIOT	PV416G240C5QK	16GB(4GB*4)	SS	N/A	Heat-Sink Package	15-15-15-35	1.2V	*	*	*
PATRIOT	PSD44G240081	4GB	SS	PAIROT	PM512M8D4BU-083			*	*	*
APACER	78.B1GMA.AF20B	4GB	SS	SK HYNIX	H5AN4G8NMFR	16-16-16-36	1.2V	*	*	*
HyperX	HX424C15FBK4/16	4GB	SS	N/A	Heat-Sink Package		1.2V	*	*	*
G.SKILL	F4-2400C14Q2-128GRK	16GB	DS	N/A	Heat-Sink Package	14-14-14-34	1.2V	*	*	*
G.SKILL	F4-2400C14Q-16GRR	4GB	SS	N/A	Heat-Sink Package	14-14-14-34	1.2V	*	*	*
G.SKILL	F4-2400C15Q-16GRR	4GB	SS	N/A	Heat-Sink Package	15-15-15-35	1.2V	*	*	*
CRUCIAL	CT16G4RFS424A.18FA1	16GB	DS	MICRON	5JA47D95SRK		1.2V	*	*	*
AVEXIR	AVD4U2124001608G-4COR	8GB	DS	N/A	Heat-Sink Package		1.2V	*	*	*
G.SKILL	F4-2400C15S-8GRK	8GB	DS	N/A	Heat-Sink Package	15-15-15-35	1.2V	*	*	*
AVEXIR	AVD4U2124001604G-4COB	4GB	SS	N/A	Heat-Sink Package		1.2V	*	*	*
HyperX	HX424C15FB/8	8GB	DS	N/A	Heat-Sink Package	15-15-15-35-56	1.2V	*	*	*
CRUCIAL	BLS8G4D240FSA.16FADG	8GB	DS	N/A	Heat-Sink Package	16-16-16-39	1.2V	*	*	*
TEAM	TED48G2400C16BK	8GB	DS	TEAM	T4D5128HT-24	16-16-16-39	1.2V	*	*	*
HyperX	HX424C12PBK4/32	8GB	DS	N/A	Heat-Sink Package		1.35V	*	*	*
G.SKILL	F4-2400C15Q-32GRR	8GB	DS	N/A	Heat-Sink Package	15-15-15-35	1.2V	*	*	*
PATRIOT	PSD48G240002	8GB	DS	PAIROT	16211B5454512X8DDR4			*	*	*
GOMOS	GRR-D4-2400-8GB	8GB	SS	GOMOS	GD4N8G8F-UH			*	*	*
GALAXY	GAL4AXLBM2400D16JE081C	8GB	SS	GALAXY	GA4L1GM88BA093H		1.2V	*	*	*
GEIL	DDR48GB2400C16QC	8GB	SS	GEIL	1GX8DDR4 HL 1612	16-16-16-36	1.2V	*	*	*
CORSAIR	CM4X8GE2400C16K4-CN	8GB	DS	N/A	Heat-Sink Package	16-16-16-39	1.2V	*	*	*
LEORICE	DDR4/2400MHZ/CL15/1.2V	32GB(8GB*4)	DS	N/A	Heat-Sink Package		1.2V	*	*	*
HyperX	HX424C12SB2K2/16	16GB	DS	N/A	Heat-Sink Package		1.35V	*	*	*
KINGSTON	KVR24N17D8/8-SP	8GB	DS	N/A	Heat-Sink Package		1.2V	*	*	*
V-COLOR	TC48G24S817	8GB	SS	V-COLOR	TMC9486G2	15-15-15-35	1.2V	*	*	*
CORSAIR	CMD32GX4M4A2400C14	8GB	DS	N/A	Heat-Sink Package	14-16-16-31	1.2V	*	*	*
AMD	R748G2400U2S	8GB	DS	N/A	Heat-Sink Package	15-15-15-36	1.2V	*	*	*
MICRON	MTA16ATF2G64AZ-2G3B1	16GB	DS	MICRON	5WB47D9TBH			*	*	*
MICRON	MTA8ATF1G64AZ-2G3B1	8GB	SS	MICRON	5WB47D9TBH	17-17-17-39-55	1.2V	*	*	*
APACER	AHU08GGB13CGT7G	8GB	DS	N/A	N/A			*	*	*
HyperX	HX424C12SB2K4/16	16GB(4GB*4)	SS	N/A	Heat-Sink Package		1.35V	*	*	*
HyperX	HX424C12SB2K4/32	32GB(8GB*4)	DS	N/A	Heat-Sink Package		1.35V	*	*	*
HyperX	HX424C15FBK2/16	16GB(8GB*2)	DS	N/A	Heat-Sink Package		1.2V	*	*	*
GALAXY	GAM4BXLBS240016JE164C	16GB(4GB*4)	SS	N/A	Heat-Sink Package	16-16-16-36	1.2V	*	*	*
APACER	AH08GGB24CDT5H	16GB(8GB*2)	DS	N/A	Heat-Sink Package	16-16-16-36		*	*	*
CORSAIR	CMK8GX4M2A2400C14	8GB(4GB*2)	SS	N/A	Heat-Sink Package	14-16-16-31	1.2V	*	*	*
CORSAIR	CMK16GX4M2A2400C14	16GB(8GB*2)	DS	N/A	Heat-Sink Package	14-16-16-31	1.2V	*	*	*
AVEXIR	AVD4U2124001608G-1COB	8GB	DS	N/A	Heat-Sink Package		1.2V	*	*	*
AVEXIR	AVD4U24001608G-1BW	8GB	DS	N/A	512X8DDR4		1.2V	*	*	*
APACER	AU08GGB24CETBGC	8GB	DS	APACER	AM6F0080THSB21550F			*	*	*
AVEXIR	AVD4U2124001608G-2COR	16GB (8GB * 2)	DS	N/A	Heat-Sink Package		1.2V	*	*	*
V-COLOR	8GTC48G24S817-IMS	32GB(8GB*4)	SS	V-COLOR	N/A		1.2V	*	*	*
CORSAIR	CMD32GX4M4A2400C12	32GB(8GB*4)	DS	N/A	Heat-Sink Package		1.2V	*	*	*
G.SKILL	F4-2400C15Q-64GIS	64GB(16GB*4)	DS	N/A	Heat-Sink Package		1.2V	*	*	*
G.SKILL	F4-2400C15Q-32GNT	32GB(8GB*4)	SS	G.SKILL	D4 1GM8GE15		1.2V	*	*	*
CRUCIAL	BLS8G4D240F5B.16FARG	32GB(8GB*4)	DS	N/A	Heat-Sink Package		1.2V	*	*	*

GEIL	GLW416GB2400C15DC	8GB	SS	N/A	Heat-Sink Package	15-15-15-35	1.2V	*	*	*
TEAM	TDTRD48G2400HC15ABK	8GB	SS	N/A	Heat-Sink Package	15-15-15-35	1.2V	*	*	*
TEAM	TDRED48G2400HC14BK	8GB	DS	N/A	Heat-Sink Package	14-16-16-31	1.2V	*	*	*
GEIL	GRP416GB2400C16DC	8GB	SS	N/A	Heat-Sink Package	16-16-16-36	1.2V	*	*	*
ADATA	AX4U2400W8G16-BRZ	8GB	DS	N/A	Heat-Sink Package	16-16-16	1.2V	*	*	*
HyperX	HX424C15FB/16	16GB	DS	N/A	Heat-Sink Package		1.2V	*	*	*
CRUCIAL	BLS8G4D240FSC.16FARG	8GB	DS	N/A	Heat-Sink Package	16-16-16-39	1.2V	*	*	*
CORSAIR	CMK32GX4M2A2400C14	32GB(16GB*2)	DS	N/A	Heat-Sink Package	14-16-16-31	1.2V	*	*	*
GALAXY	GAM4HFL1BM2400D15IE08IC	8GB	DS	N/A	Heat-Sink Package		1.2V	*	*	*
CORSAIR	CMK32GX4M4A2400C16R	32GB(8GB*4)	SS	N/A	Heat-Sink Package	16-16-16-39	1.2V	*	*	*
CORSAIR	CMD16GX4M4B2400C10	16GB(4GB*4)	SS	N/A	Heat-Sink Package	10-12-12-28	1.35V	*	*	*
MUSHKIN	997199T	16GB(8GB*2)	SS	N/A	Heat-Sink Package	15-15-15-35	1.2V	*	*	*
GEIL	8G2133C151.2V	8GB	DS	GEIL	512X8DDR4Y		1.2V	*	*	*
TEAM	TED416G2400C16BK	16GB	DS	TEAM	T4D10248MT-24	16-6-16-39	1.2V	*	*	*
TEAM	TCD44G2400C14BK	4GB	SS	Skhymix	H5AN4G8NAFR	14-16-16-31	1.2V	*	*	*
TIGO	TMKU8GF28-2400U	8GB	DS	N/A	Heat-Sink Package		1.2V	*	*	*
APACER	AU08GGB24CEYBGC	8GB	SS	APACER	AM6F6308MHHSB2	17-17-17-39	1.2V	*	*	*
ADATA	AX4U240038G16-BWZ	64GB(8GB*8)	SS	N/A	Heat-Sink Package	16-16-16	1.2V	*	*	*
ADATA	AX4U2400316G16-SBF	256GB(16GB*16)	DS	N/A	Heat-Sink Package	16-16-16	1.2V	*	*	*
AVEXIR	AVD4UZ124001604G-4COR	16GB(4GB*4)	SS	N/A	Heat-Sink Package		1.2V	*	*	*
KINGSTON	TF24D4U7S8MB-8	8GB	SS	MICON	6SB77D9TBH			*	*	*
KINGSTON	TF24D4U7S1MBD-2	2GB	SS	MICON	6GB77D9TGG			*	*	*
KINGSTON	TF24D4U7S8MBD-4	4GB	SS	MICON	6QB77D9TGG			*	*	*
RAMAXEL	RMUA5120MB86H9F-2400	4GB	SS	MICON	6RB77D9TBK			*	*	*
RAMAXEL	RMUA5120MB76H8F-2400	2GB	SS	MICON	6GB77D9TGG			*	*	*
CRUCIAL	CT4G4DFS824A.C8FBD2	4GB	SS	MICON	60B45C9BGX	17-17-17-39	1.2V	*	*	*
CRUCIAL	CT8G4DFS824A.M8FB	8GB	SS	MICON	6QB77D9TBH	17-17-17-39	1.2V	*	*	*
ADATA	AX4U240038G16-SBF	8GB	SS	N/A	Heat-Sink Package	17-17-17-39	1.2V	*	*	*
ADATA	AX4U2400W8G16-DRD	8GB	DS	N/A	Heat-Sink Package	17-17-17-39	1.2V	*	*	*
ADATA	AX4U2400316G16-DRD	16GB	DS	N/A	Heat-Sink Package	17-17-17-39	1.2V	*	*	*
G.SKILL	F4-2400C15Q2-64GRK	64GB(8GB*8)	SS	N/A	Heat-Sink Package	15-15-15-35	1.2V	*	*	*
TEAM	TCD48G2400C14BK	8GB	SS	TEAM	T4D10248MT-24	15-16-16-31	1.2V	*	*	*
HyperX	HX424C12PB2K4/16	16GB(4GB*4)	SS	-	-	12-13-13-35	1.2V	*	*	*
HyperX	HX424C12SB2/4(XMP)	4GB	SS	-	-	12-14-14-35	1.35V	*	*	*
HyperX	HX424C12SB2/8(XMP)	8GB	DS	-	-	12-14-14-35	1.35V	*	*	*
HyperX	HX424C12SB2K2/16(XMP)	16GB(8GB*2)	DS	SK hynix	H5AN4G8NAFR-TFC	12-14-14-35	1.35V	*	*	*
HyperX	HX424C12SB2K4/32(XMP)	32GB(8GB*4)	DS	SK hynix	H5AN4G8NAFR-TFC	12-14-14-35	1.35V	*	*	*
HyperX	HX424C15FB2K4/32(XMP)	32GB(8GB*4)	SS	-	-	15-15-15-35	1.2V	*	*	*
HyperX	HX424C15FB/4(XMP)	4GB	SS	-	-	15-15-5-35	1.2V	*	*	*
HyperX	HX424C15FB/8(XMP)	8GB	SS	-	-	15-15-15-35	1.2V	*	*	*
HyperX	HX424C15FBK2/8(XMP)	8GB(4GB*2)	SS	-	-	15-15-5-35	1.2V	*	*	*
HyperX	HX424C15FBK4/64(XMP)	64GB(16GB*4)	DS	-	-	15-15-15-35	1.2V	*	*	*
KINGSTON	KVR24N17D8/16	16GB	DS	Micron	D9SRJ	17-17-17-39	1.2V	*	*	*
KINGSTON	KVR24N17D8/8	8GB	DS	Micron	D9TGG	17-17-17-39	1.2V	*	*	*
KINGSTON	KVR24N17S8/4	4GB	SS	Micron	D9TGG	17-17-17-39	1.2V	*	*	*
AVEXIR	AVD4U24001604G-4CIR(XMP)	32GB(8GB*4)	SS	-	-	16-16-16-36	1.2V	*	*	*
AVEXIR	AVD4U24001608G-4M	32GB(8GB*4)	DS	SK Hynix	H5AN4G8NMFRTFC	16-16-16-39	1.2V	*	*	*
AVEXIR	AVD4U24001608G-4M(XMP)	32GB(4GB*8)	DS	SK Hynix	H5AN4G8NMFRTFC	16-16-16-36	1.2V	*	*	*
AVEXIR	AVD4UZ124001604G-4COR(XMP)	16GB(4GB*4)	DS	-	-	16-16-16-36	1.2V	*	*	*
AVEXIR	AVD4U24001604G-1BW	4GB(4GB*1)	SS	AVEXIR	512X8DDR4	16-16-16-36	1.2V	*	*	*
AVEXIR	AVD4UZ124001604G-1COR	4GB(4GB*1)	SS	AVEXIR	512X8DDR4	16-16-16-36	1.2V	*	*	*
AVEXIR	AVD4UZ124001604G-1COB	4GB(4GB*1)	SS	AVEXIR	512X8DDR4	16-16-16-36	1.2V	*	*	*
AVEXIR	AVD4UZ124001604G-1COW	4GB(4GB*1)	SS	AVEXIR	512X8DDR4	16-16-16-36	1.2V	*	*	*
AVEXIR	AVD4UZ124001604G-1COY	4GB(4GB*1)	SS	AVEXIR	512X8DDR4	16-16-16-36	1.2V	*	*	*
AVEXIR	AVD4UZ124001604G-1COG	4GB(4GB*1)	SS	AVEXIR	512X8DDR4	16-16-16-36	1.2V	*	*	*
AVEXIR	AVD4UZ124001604G-1COO	4GB(4GB*1)	SS	AVEXIR	512X8DDR4	16-16-16-36	1.2V	*	*	*
AVEXIR	AVD4UZ124001604G-1COWV	4GB(4GB*1)	SS	AVEXIR	512X8DDR4	16-16-16-36	1.2V	*	*	*
AVEXIR	AVD4UZ124001604G-2COR	8GB(4GB*2)	SS	AVEXIR	512X8DDR4	16-16-16-36	1.2V	*	*	*
AVEXIR	AVD4UZ124001604G-2COB	8GB(4GB*2)	SS	AVEXIR	512X8DDR4	16-16-16-36	1.2V	*	*	*
AVEXIR	AVD4UZ124001604G-2COW	8GB(4GB*2)	SS	AVEXIR	512X8DDR4	16-16-16-36	1.2V	*	*	*
AVEXIR	AVD4UZ124001604G-2COY	8GB(4GB*2)	SS	AVEXIR	512X8DDR4	16-16-16-36	1.2V	*	*	*
AVEXIR	AVD4UZ124001604G-2COG	8GB(4GB*2)	SS	AVEXIR	512X8DDR4	16-16-16-36	1.2V	*	*	*
AVEXIR	AVD4UZ124001604G-2COO	8GB(4GB*2)	SS	AVEXIR	512X8DDR4	16-16-16-36	1.2V	*	*	*
AVEXIR	AVD4UZ124001604G-2COWV	8GB(4GB*2)	SS	AVEXIR	512X8DDR4	16-16-16-36	1.2V	*	*	*
AVEXIR	AVD4UZ124001604G-4COW	16GB(4GB*4)	SS	AVEXIR	512X8DDR4	16-16-16-36	1.2V	*	*	*
AVEXIR	AVD4UZ124001604G-4COY	16GB(4GB*4)	SS	AVEXIR	512X8DDR4	16-16-16-36	1.2V	*	*	*
AVEXIR	AVD4UZ124001604G-4COG	16GB(4GB*4)	SS	AVEXIR	512X8DDR4	16-16-16-36	1.2V	*	*	*
AVEXIR	AVD4UZ124001604G-4COO	16GB(4GB*4)	SS	AVEXIR	512X8DDR4	16-16-16-36	1.2V	*	*	*
AVEXIR	AVD4UZ124001604G-4CWWV	16GB(4GB*4)	SS	AVEXIR	512X8DDR4	16-16-16-36	1.2V	*	*	*
AVEXIR	AVD4UZ124001608G-1COR	8GB(8GB*1)	DS	AVEXIR	512X8DDR4	16-16-16-36	1.2V	*	*	*
AVEXIR	AVD4UZ124001608G-1COW	8GB(8GB*1)	DS	AVEXIR	512X8DDR4	16-16-16-36	1.2V	*	*	*
AVEXIR	AVD4UZ124001608G-1COY	8GB(8GB*1)	DS	AVEXIR	512X8DDR4	16-16-16-36	1.2V	*	*	*
AVEXIR	AVD4UZ124001608G-1COG	8GB(8GB*1)	DS	AVEXIR	512X8DDR4	16-16-16-36	1.2V	*	*	*
AVEXIR	AVD4UZ124001608G-1COO	8GB(8GB*1)	DS	AVEXIR	512X8DDR4	16-16-16-36	1.2V	*	*	*
AVEXIR	AVD4UZ124001608G-1COWV	8GB(8GB*1)	DS	AVEXIR	512X8DDR4	16-16-16-36	1.2V	*	*	*
AVEXIR	AVD4UZ124001608G-2COB	16GB(8GB*2)	DS	AVEXIR	512X8DDR4	16-16-16-36	1.2V	*	*	*
AVEXIR	AVD4UZ124001608G-2COW	16GB(8GB*2)	DS	AVEXIR	512X8DDR4	16-16-16-36	1.2V	*	*	*
AVEXIR	AVD4UZ124001608G-2COY	16GB(8GB*2)	DS	AVEXIR	512X8DDR4	16-16-16-36	1.2V	*	*	*
AVEXIR	AVD4UZ124001608G-2COG	16GB(8GB*2)	DS	AVEXIR	512X8DDR4	16-16-16-36	1.2V	*	*	*
AVEXIR	AVD4UZ124001608G-2COO	16GB(8GB*2)	DS	AVEXIR	512X8DDR4	16-16-16-36	1.2V	*	*	*
AVEXIR	AVD4UZ124001608G-2COWV	16GB(8GB*2)	DS	AVEXIR	512X8DDR4	16-16-16-36	1.2V	*	*	*
AVEXIR	AVD4UZ124001608G-4COB	32GB(8GB*4)	DS	AVEXIR	512X8DDR4	16-16-16-36	1.2V	*	*	*
AVEXIR	AVD4UZ124001608G-4COW	32GB(8GB*4)	DS	AVEXIR	512X8DDR4	16-16-16-36	1.2V	*	*	*
AVEXIR	AVD4UZ124001608G-4COY	32GB(8GB*4)	DS	AVEXIR	512X8DDR4	16-16-16-36	1.2V	*	*	*

AVEXIR	AVD4U2124001608G-4COG	32GB(8GB*4)	DS	AVEXIR	512X8DDR4	16-16-16-36	1.2V	*	*	*
AVEXIR	AVD4U2124001608G-4COO	32GB(8GB*4)	DS	AVEXIR	512X8DDR4	16-16-16-36	1.2V	*	*	*
AVEXIR	AVD4U2124001608G-4CWW	32GB(8GB*4)	DS	AVEXIR	512X8DDR4	16-16-16-36	1.2V	*	*	*
G.SKILL	F4-2400C15Q-16GVR	16GB(4GB*4)	SS			15-15-15-35	1.2	*	*	*
G.SKILL	F4-2400C15Q-16GVB	16GB(4GB*4)	SS			15-15-15-35	1.2	*	*	*
G.SKILL	F4-2400C15Q-16GVG	16GB(4GB*4)	SS			15-15-15-35	1.2	*	*	*
G.SKILL	F4-2400C15Q-16GVK	16GB(4GB*4)	SS			15-15-15-35	1.2	*	*	*
G.SKILL	F4-2400C15Q-16GRK	16GB(4GB*4)	SS			15-15-15-35	1.2	*	*	*
G.SKILL	F4-2400C15Q-16GRB	16GB(4GB*4)	SS			15-15-15-35	1.2	*	*	*
G.SKILL	F4-2400C15Q2-128GVR	128GB(16GB*8)	DS			15-15-15-35	1.2	*	*	*
G.SKILL	F4-2400C15Q2-128GVK	128GB(16GB*8)	DS			15-15-15-35	1.2	*	*	*
G.SKILL	F4-2400C15Q-32GVR	32GB(8GB*4)	DS			15-15-15-35	1.2	*	*	*
G.SKILL	F4-2400C15Q-32GVB	32GB(8GB*4)	DS			15-15-15-35	1.2	*	*	*
G.SKILL	F4-2400C15Q-32GVG	32GB(8GB*4)	DS			15-15-15-35	1.2	*	*	*
G.SKILL	F4-2400C15Q-32GVK	32GB(8GB*4)	DS			15-15-15-35	1.2	*	*	*
G.SKILL	F4-2400C15Q-32GVS	32GB(8GB*4)	DS			15-15-15-35	1.2	*	*	*
G.SKILL	F4-2400C15Q-32GRK	32GB(8GB*4)	DS			15-15-15-35	1.2	*	*	*
ADATA	AD4U2400W4G17-B	4GB	SS	SK Hynix	H5AN4G8NAFRTFC	15-15-15-35	1.2	*	*	*
ADATA	AD4U2400W8G17-B	8GB	DS	SK Hynix	H5AN4G8NAFRTFC	15-15-15-35	1.2	*	*	*
Apacer	78.B1GMS.4050B	16GB(4GB*4)	SS	Samsung	K4A4G085WD	17-17-17-39	-	*	*	*
Apacer	78.C1GMS.4010B	32GB(8GB*4)	DS	Samsung	K4A4G085WD	17-17-17-39	-	*	*	*
Apacer	EK.08G2T.GEC	8GB	SS	-	-	16-16-16-36	-	*	*	*
Apacer	EL.08G2T.GFM	8GB	SS	Apacer	AM6F6308MHHSB2	17-17-17-39	-	*	*	*
CORSAIR	CMD16GX4M4A2400C14	16GB(4GB*4)	SS	-	-	14-16-16-31	1.2	*	*	*
CORSAIR	CMK16GX4M2A2400C16	16GB(8GB*2)	DS	-	-	16-16-16-39	1.2	*	*	*
CORSAIR	CMK16GX4M4A2400C14	16GB(4GB*4)	SS	-	-	14-16-16-31	1.2	*	*	*
CORSAIR	CMK32GX4M4A2400C16	32GB(8GB*4)	SS	-	-	16-16-16-39	1.2	*	*	*
CORSAIR	CMK64GX4M4A2400C14	64GB(16GB*4)	DS	-	-	14-16-16-31	1.2	*	*	*
Crucial	CT16G4DFD824A.16FB1	16GB	DS	Micron	D9T8H	17-17-17-39	1.2	*	*	*
Crucial	CT8G4DFS824A.8FB1	8GB	SS	-	-	17-17-17-39	1.2	*	*	*
Foxtconn	FEU8GN51208KC2400H	8GB	DS	Nanya	NT5AD512M8B1-FM	17-17-17-39	-	*	*	*
G.SKILL	F4-2400C15Q2-128GRK	128GB(16GB*8)	DS	-	-	15-15-15-35	1.2	*	*	*
GelL	GLR464GB2400C14QC	64GB(16GB*4)	DS	-	-	14-14-14-35	1.2	*	*	*
GelL	GPR432GB2400C15QC	32GB(8GB*4)	DS	-	-	15-15-15-35	1.2	*	*	*
HyperX	HX424C12SB2/4	4GB	SS	-	-	12-14-14-35	1.35	*	*	*
HyperX	HX424C12SB2/8	8GB	DS	-	-	12-14-14-35	1.35	*	*	*
HyperX	HX424C15B2K4/32	32GB(8GB*4)	SS	-	-	15-15-15-35	1.2	*	*	*
HyperX	HX424C15FB/4	4GB	SS	-	-	15-15-5-35	1.2	*	*	*
HyperX	HX424C15FBK2/8	8GB(4GB*2)	SS	-	-	15-15-5-35	1.2	*	*	*
HyperX	HX424C15FBK4/64	64GB(16GB*4)	DS	-	-	15-15-15-35	1.2	*	*	*
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	-	*	*	*
SK Hynix	HMA851U6AFR6N-UH	4GB	SS	SK Hynix	H5AN8G6NAFRUHC	17-17-17-39	-	*	*	*
V-color	TC48G245817-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	Voltage	DIMM socket support (Optional)		
								1 DIMM	2 DIMM	4 DIMM
CORSAIR	CMK16GX4M4A2666C16	16GB(4GB*4)	SS	N/A	Heat-Sink Package	16-18-18-35	1.2V	*	*	*
CORSAIR	CMD32GX4M4A2666C15	32GB(8GB*4)	DS	N/A	Heat-Sink Package	15-17-17-35	1.2V	*	*	*
G.SKILL	F4-2666C15Q-16GRR	16GB(4GB*4)	SS	N/A	Heat-Sink Package	15-15-15-35	1.2V	*	*	*
PATRIOT	PX416G266C5QK	16GB(4GB*4)	SS	N/A	Heat-Sink Package	15-15-15-35	1.2V	*	*	*
G.SKILL	F4-2666C16Q2-64GRB	64GB(8GB*8)	DS	N/A	Heat-Sink Package	16-16-16-36	1.2V	*	*	*
TEAM	TCD48G2666C15ABK	8GB	DS	SK HYNIX	H5AN4G8NMFR	15-15-15-35	1.2V	*	*	*
TEAM	TCD44G2666C15ABK	4GB	SS	SEC 443 BCPB	K4A4G085WD	15-15-15-35	1.2V	*	*	*
MUSHKIN	997192F	8GB(4GB*2)	SS	N/A	Heat-Sink Package	15-15-15-35	1.2V	*	*	*
HyperX	HX426C13PBK4/32	32GB(8GB*4)	DS	N/A	Heat-Sink Package	15-15-15-36	1.35V	*	*	*
HyperX	HX426C15FBK4/32	32GB(8GB*4)	DS	N/A	Heat-Sink Package	15-17-17-35	1.2V	*	*	*
CORSAIR	CMD128GX4M8A2666C15	128GB(16GB*4)	DS	N/A	Heat-Sink Package	15-17-17-35	1.2V	*	*	*
HyperX	HX426C15FBK4/16	16GB(4GB*4)	SS	N/A	Heat-Sink Package	15-17-17-35	1.2V	*	*	*
CRUCIAL	BLE4G4D26AFE8.FAD	8GB	SS	N/A	Heat-Sink Package	16-16-17-36	1.2V	*	*	*
CRUCIAL	BLE8G4D26AFE8.16FAD	8GB	DS	N/A	Heat-Sink Package	16-17-17-36	1.2V	*	*	*
AVEXIR	AVD4U2126661504G-4COB	16GB(4GB*4)	SS	N/A	Heat-Sink Package	15-15-15-36	1.2V	*	*	*
PATRIOT	PV416G266C5QK	16GB(4GB*4)	SS	N/A	Heat-Sink Package	15-15-15-35	1.2V	*	*	*
AVEXIR	AVD4U2126661504G-4IPROG	16GB(4GB*4)	DS	N/A	Heat-Sink Package	15-15-15-36	1.2V	*	*	*
AVEXIR	AVD4U2126661504G	8G(4G*2)	DS	N/A	Heat-Sink Package	15-15-15-36	1.2V	*	*	*
CORSAIR	CMU32GX4M2A2666C16	32GB(16GB*2)	DS	N/A	Heat-Sink Package	16-18-18-35	1.2V	*	*	*
CORSAIR	CMK32GX4M4A2666C16	32GB(8GB*4)	DS	N/A	Heat-Sink Package	16-18-18-35	1.2V	*	*	*
AVEXIR	AVD4U2126661508G-4COB	32GB(8GB*4)	DS	N/A	Heat-Sink Package	15-15-15-36	1.2V	*	*	*
CRUCIAL	BLT4G4D26AFTA.8FADG	4GB	SS	N/A	Heat-Sink Package	16-17-17-36	1.2V	*	*	*
CRUCIAL	BLT8G4D26AFTA.16FAD	8GB	DS	N/A	Heat-Sink Package	16-17-17-36	1.2V	*	*	*
KLEVV	IMA41GU6MFR8N-C FO	8GB	DS	N/A	Heat-Sink Package	15-15-15	1.2V	*	*	*
HyperX	HX426C13SB2K4/32	32GB(8GB*4)	DS	N/A	Heat-Sink Package	15-15-15-36	1.35V	*	*	*
HyperX	HX426C13SB2K4/16	16GB(4GB*4)	SS	N/A	Heat-Sink Package	15-15-15-36	1.35V	*	*	*
PNY	MD16GK4D266615AXR	16GB(4GB*4)	SS	N/A	Heat-Sink Package	15-15-15-36	1.2V	*	*	*
CORSAIR	CMK16GX4M2A2666C16	16GB(8GB*2)	SS	N/A	Heat-Sink Package	16-18-18-35	1.2V	*	*	*
CORSAIR	CMK32GX4M2A2666C15	32GB(16GB*2)	DS	N/A	Heat-Sink Package	16-18-18-35	1.2V	*	*	*
CORSAIR	CMK16GX4M4A2666C15	16GB(4GB*4)	SS	N/A	Heat-Sink Package	15-17-17-35	1.2V	*	*	*
CORSAIR	CMK64GX4M4A2666C16	64GB(16GB*4)	DS	N/A	Heat-Sink Package	16-18-18-35	1.2V	*	*	*
G.SKILL	F4-2666C15Q-32GRR	32GB(8GB*4)	SS	N/A	Heat-Sink Package	15-15-15-35	1.2V	*	*	*
AVEXIR	AVD4U2126661704G-4COR	16GB(4GB*4)	SS	N/A	Heat-Sink Package	17-17-17-37	1.2V	*	*	*
AVEXIR	AVD4U2126661708G-4COR	32GB(8GB*4)	SS	N/A	Heat-Sink Package	17-17-17-37	1.2V	*	*	*

PANRAM	PUD42800C164G4NJW	16GB(4GB*4)	SS	N/A	Heat-Sink Package	16-18-18-36	1.25V	*	*	*
MUSHKIN	994207F	16GB(4GB*4)	SS	N/A	Heat-Sink Package	16-16-16-36	1.2V	*	*	*
HyperX	HX428C14PBK4/32	32GB(8GB*4)	DS	N/A	Heat-Sink Package	15-15-15-36-50	1.35V	*	*	*
AVEXIR	AVD4UZ128001604G-4COB	16GB(4GB*4)	SS	N/A	Heat-Sink Package	15-15-15-36-51	1.2V	*	*	*
AVEXIR	AVD4UZ128001608G-4COB	32GB(8GB*4)	DS	N/A	Heat-Sink Package	15-15-15-36-51	1.2V	*	*	*
CORSAIR	CMK32GX4M4A2800C16	32GB(8GB*4)	DS	N/A	Heat-Sink Package	16-18-18-36	1.2V	*	*	*
HyperX	HX428C14SB2K4/32	32GB(8GB*4)	DS	N/A	Heat-Sink Package	15-15-15-36-50	1.35V	*	*	*
HyperX	HX428C14SB2K4/16	16GB(4GB*4)	SS	N/A	Heat-Sink Package	15-15-15-36-50	1.35V	*	*	*
TEAM	TDGED48G2800HC16ABK	16GB(8GB*2)	SS	N/A	Heat-Sink Package	16-16-16-36	1.2V	*	*	*
PATRIOT	PV416G280C6QK	16GB(4GB*4)	SS	N/A	Heat-Sink Package	16-18-18-36	1.2V	*	*	*
ADATA	Digital Storm	8GB	DS	SK HYNIX	HMA54G8NAFR			*	*	*
TEAM	TCD44G2800C16ABK	4GB	SS	Skhymix	H5AN4G8NAFR	16-16-16-36	1.2V	*	*	*
TEAM	TCD48G2800C16ABK	8GB	SS	TEAM	T4D10248HT-30	16-16-16-36	1.2V	*	*	*
G.SKILL	F4-2800C16D-16GRR	8G*2	SS	N/A	Heat-Sink Package		1.2V	*	*	*
ADATA	AX4U280038G17-SBF	64GB(8GB*8)	SS	N/A	Heat-Sink Package	17-17-17	1.2V	*	*	*
ADATA	AX4U2800316G16-SBF	16GB	SS	N/A	Heat-Sink Package		1.2V	*	*	*
CORSAIR	CMD32GX4M4A2800C16	8GB	DS	N/A	Heat-Sink Package	16-18-18-36	1.2V	*	*	*
G.SKILL	F4-2800C14Q-64GVK	16G*4	DS	N/A	Heat-Sink Package	14-14-14-35	1.35V	*	*	*
G.SKILL	F4-2800C16Q-32GVR	32GB(8GB*4)	SS	N/A	Heat-Sink Package	16-16-16-36	1.20V	*	*	*
AVEXIR	AVD4UZ128001504G-4BZ1RR	16GB(4GB*4)	SS	N/A	Heat-Sink Package	15-15-15-35	1.35V	*	*	*
AVEXIR	AVD4UZ128001508G-4BZ1RR	32GB(8GB*4)	DS	N/A	Heat-Sink Package	15-15-15-35	1.35V	*	*	*
CORSAIR	CMD16GX4M4A2800C16	16GB(4GB*4)	SS	N/A	Heat-Sink Package	16-18-18-36	1.2V	*	*	*
CORSAIR	CMK64GX4M8B2800C14	64GB(8GB*8)	DS	N/A	Heat-Sink Package	14-16-16-36	1.35V	*	*	*
HyperX	HX428C14SB2/4	4GB	SS	-	-	14-16-16-39	1.35	*	*	*
HyperX	HX428C14SB2/8	8GB	DS	-	-	14-16-16-39	1.35	*	*	*
HyperX	HX428C14SB2K2/8	8GB(4GB*2)	SS	-	-	14-16-16-39	1.35	*	*	*
G.SKILL	F4-2800C14Q-64GVG	64GB(16GB*4)	DS	-	-	14-14-14-35	1.35	*	*	*
G.SKILL	F4-2800C14Q-64GVS	64GB(16GB*4)	DS	-	-	14-14-14-35	1.35	*	*	*
G.SKILL	F4-2800C14Q-64GVB	64GB(16GB*4)	DS	-	-	14-14-14-35	1.35	*	*	*
G.SKILL	F4-2800C14Q-64GVR	64GB(16GB*4)	DS	-	-	14-14-14-35	1.35	*	*	*
G.SKILL	F4-2800C16Q-16GVR	16GB(4GB*4)	SS	-	-	16-16-16-36	1.2	*	*	*
G.SKILL	F4-2800C16Q-16GVB	16GB(4GB*4)	SS	-	-	16-16-16-36	1.2	*	*	*
G.SKILL	F4-2800C16Q-16GVK	16GB(4GB*4)	SS	-	-	16-16-16-36	1.2	*	*	*
G.SKILL	F4-2800C16Q-16GVG	16GB(4GB*4)	SS	-	-	16-16-16-36	1.2	*	*	*
G.SKILL	F4-2800C16Q-16GVS	16GB(4GB*4)	SS	-	-	16-16-16-36	1.2	*	*	*
G.SKILL	F4-2800C16Q-32GVB	32GB(8GB*4)	DS	-	-	16-16-16-36	1.2	*	*	*
G.SKILL	F4-2800C16Q-32GVK	32GB(8GB*4)	DS	-	-	16-16-16-36	1.2	*	*	*
G.SKILL	F4-2800C16Q-32GVG	32GB(8GB*4)	DS	-	-	16-16-16-36	1.2	*	*	*
G.SKILL	F4-2800C16Q-32GVS	32GB(8GB*4)	DS	-	-	16-16-16-36	1.2	*	*	*
ADATA	AX4U2800316G16	16GB	DS	-	-	16-16-16-36	1.2	*	*	*
ADATA	AX4U2800W4G17-BRZ	4GB	SS	-	-	17-17-17-36	1.2	*	*	*
ADATA	AX4U2800W8G15	8GB	DS	-	-	15-16-16-35	1.25	*	*	*
ADATA	AX4U2800W8G17-BRZ	8GB	DS	-	-	17-17-17-36	1.2	*	*	*
Apacer	78.BAGM8.AF20B	16GB(4GB*4)	SS	-	-	17-17-17-36	-	*	*	*
Apacer	78.CAGM8.AF30B	32GB(8GB*4)	DS	-	-	17-17-17-36	-	*	*	*
Apacer	EK.16GAW.KFAK2	8GB	DS	-	-	17-17-17-36	-	*	*	*
CORSAIR	CMD32GX4M4A2800C15	32GB(8GB*4)	DS	-	-	15-17-17-36	1.2	*	*	*
CORSAIR	CMK16GX4M4A2800C16	16GB(4GB*4)	SS	-	-	16-16-18-36	1.2	*	*	*
G.SKILL	F4-2800C15Q2-128GRKD	128GB(16GB*8)	DS	-	-	15-15-15-35	1.35	*	*	*
G.SKILL	F4-2800C15Q2-64GRK	64GB(8GB*8)	DS	-	-	15-16-16-35	1.25	*	*	*
G.SKILL	F4-2800C16Q-16GRR	16GB(4GB*4)	SS	-	-	16-16-16-36	1.2	*	*	*
G.SKILL	F4-2800C16Q-32GRK	32GB(8GB*4)	DS	-	-	16-16-16-36	1.2	*	*	*
G.SKILL	F4-2800C16Q-32GRR	32GB(8GB*4)	DS	-	-	16-16-16-36	1.2	*	*	*
GeIL	GPR416GB2800C16QC	16GB(4GB*4)	SS	-	-	16-16-16-36	1.2	*	*	*
GeIL	GPR432GB2800C16QC	32GB(8GB*4)	DS	-	-	16-16-16-36	1.2	*	*	*
HyperX	HX428C14PBK8/64	64GB(8GB*8)	DS	-	-	14-15-15-39	1.35	*	*	*
HyperX	HX428C14SB2K2/16	16GB(8GB*2)	DS	-	-	14-16-16-39	1.35	*	*	*
Klevv	IMA451U6MFR8N-DG0	4GB	SS	-	-	16-16-16-36	1.2	*	*	*
FORZA	NFMUD416E8-2800EH2A	16GB	DS	N/A	Heat-Sink Package	17-17-17-36	1.2V	*	*	*
FORZA	NFMUD480E8-2800DH2A	8G	SS	N/A	Heat-Sink Package	17-17-17-36	1.2V	*	*	*
ADATA	AX4U2800W8G17-BRD	8GB	DS	N/A	Heat-Sink Package	17-17-17-36	1.2V	*	*	*
G.SKILL	F4-2800C15Q-32GVR	32GB (4x 8GB)	SS	N/A	Heat-Sink Package	15-15-15-35	1.25V	*	*	*
ADATA	AX4U2800W4G17-BRZ	8GB(2*4GB)	SS	N/A	Heat-Sink Package	17-17-17-36	1.2V	*	*	*
ADATA	AX4U280038G17-BWZ	8G	SS	N/A	Heat-Sink Package	17-17-17-36	1.2V	*	*	*
KINGMAX	GLMG42F-18K1A CJBR4	8GB	SS	N/A	Heat-Sink Package	17-17-17-39	1.20V	*	*	*

DDR4 3000 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	DIMM socket support (Optional)		
								1 DIMM	2 DIMM	4 DIMM
CORSAIR	CMD32GX4M2B3000C15	32GB(16GB*2)	DS	N/A	Heat-Sink Package	15-17-17-35	1.35V	*	*	*
HyperX	HX430C15PB2K4/16	16GB(4GB*4)	SS	N/A	Heat-Sink Package	15-15-15-36-50	1.35V	*	*	*
G.SKILL	F4-3000C15Q-16GBRR	16GB(4GB*4)	SS	N/A	Heat-Sink Package	15-15-15-35	1.35V	*	*	*
TEAM	TCD48GB3000C16ABK	8GB	DS	TEAM	T4D5128HT-30	16-16-16-36	1.35V	*	*	*
TEAM	TCD44GB3000C16ABK	4GB	SS	TEAM	T4D5128HT-30	16-16-16-36	1.35V	*	*	*
PANRAM	PUD43000C154GB4NJW	16GB(4GB*4)	SS	N/A	Heat-Sink Package	15-17-17-35	1.35V	*	*	*
HyperX	HX430C15PBK4/32	32GB(8GB*4)	DS	N/A	Heat-Sink Package	15-15-15-36-50	1.35V	*	*	*
HyperX	HX430C15SB2K4/32	32GB(8GB*4)	DS	N/A	Heat-Sink Package	15-15-15-36-50	1.35V	*	*	*
AVEXIR	AVD4UZ130001604GB-4COB	16GB(4GB*4)	SS	N/A	Heat-Sink Package	15-15-15-36-51	1.35V	*	*	*
AVEXIR	AVD4UZ130001608GB-4COB	32GB(8GB*4)	DS	N/A	Heat-Sink Package	15-15-15-36-51	1.35V	*	*	*
HyperX	HX430C16PBK4/64	64GB(16GB*4)	DS	N/A	Heat-Sink Package	15-15-15-36-50	1.35V	*	*	*
HyperX	HX430C15SBK2/16	16GB(8GB*2)	DS	N/A	Heat-Sink Package	15-15-15-36-50	1.35V	*	*	*
TEAM	TCD48GB3000C15ABK	8GB	DS	SK HYNIX	H5AN4GB8NMFR	15-15-15-35	1.35V	*	*	*
KLEVV	IM44GBU48A30-GIIHMC	16GB(4GB*4)	SS	N/A	Heat-Sink Package	16-18-18	1.35V	*	*	*
CORSAIR	CMK16GBX4M2B3000C15	16GB(8GB*2)	DS	N/A	Heat-Sink Package	15-17-17-35	1.35V	*	*	*
HyperX	HX430C15SB2K4/16	16GB(4GB*4)	SS	N/A	Heat-Sink Package	15-15-15-36-50	1.35V	*	*	*

TEAM	TDGED48GB3000HC16ABK	16GB(8GB*2)	DS	N/A	Heat-Sink Package	16-16-16-36	1.35V	*	*
PATRIOT	PV416GB300C6QK	16GB(4GB*4)	SS	N/A	Heat-Sink Package	16-16-16-36	1.35V	*	*
G.SKILL	F4-3000C15D-32GVR	32GB(16GB*2)	DS	N/A	Heat-Sink Package	15-15-15-35	1.35V	*	*
CORSAIR	CMK64GBX4M4B3000C15	64GB(16GB*4)	DS	N/A	Heat-Sink Package	15-17-17-35	1.35V	*	*
TEAM	TCD48GB300C16ABK	8GB	SS	Skhymix	H5AN64GB(8GB*8)NMFR	16-16-16-36	1.35V	*	*
ADATA	AX4U300038GB16-DBZ	8GB	DS	N/A	Heat-Sink Package	16-18-18-36	1.35V	*	*
ADATA	AX4U30003256GB(16GB*16)-BGZ	16GB	DS	N/A	Heat-Sink Package	16-18-18-36	1.35V	*	*
CORSAIR	CMD16GBX4M4B3000C15	4GB	SS	N/A	Heat-Sink Package	15-17-17-35	1.35V	*	*
CORSAIR	CMK32GX4M2B3000C15	16GB	DS	N/A	Heat-Sink Package	15-17-17-35	1.35V	*	*
CORSAIR	CMU16GBX4M2C3000C15	8GB	SS	N/A	Heat-Sink Package	15-17-17-35	1.35V	*	*
CORSAIR	CMK16GBX4M4B3000C15	4GB	SS	N/A	Heat-Sink Package	15-17-17-35	1.35V	*	*
G.SKILL	F4-3000C15Q-32GRK	32GB(8GB*4)	DS	N/A	Heat-Sink Package	15-15-15-35	1.35V	*	*
CORSAIR	CMK8GBX4M2B3000C15	8GB(4GB*2)	SS	N/A	Heat-Sink Package	15-17-17-35	1.35V	*	*
HyperX	HX430C15PB3K2/16	16GB(8GB*2)	SS	-	-	15-17-17-36	1.35	*	*
HyperX	HX430C15PB3K2/32	32GB(16GB*2)	DS	-	-	15-17-17-36	1.35	*	*
HyperX	HX430C15PB3K2/8	8GB(4GB*2)	SS	-	-	15-17-17-36	1.35	*	*
HyperX	HX430C15PB3K4/16	16GB(4GB*4)	SS	-	-	15-17-17-36	1.35	*	*
HyperX	HX430C15PB3K4/32	32GB(8GB*4)	DS	-	-	15-17-17-36	1.35	*	*
HyperX	HX430C15PB3K4/64	64GB(16GB*4)	DS	-	-	15-17-17-36	1.35	*	*
HyperX	HX430C15SB2/4	4GB	SS	-	-	15-17-17-39	1.35	*	*
HyperX	HX430C15SB2/8	8GB	DS	-	-	15-17-17-39	1.35	*	*
HyperX	HX430C15SB2K2/16	16GB(8GB*2)	DS	-	-	15-17-17-39	1.35	*	*
HyperX	HX430C15SB2K2/8	8GB(4GB*2)	SS	-	-	15-17-17-39	1.35	*	*
AVEXIR	AVD4U30001608GB-4CIR	32GB(8GB*4)	DS	AVEXIR	512X8DDR4	16-18-18-36	1.35	*	*
AVEXIR	AVD4U2130001604GB-4RD	16GB(4GB*4)	SS	AVEXIR	512X8DDR4	16-18-18-36	1.35	*	*
AVEXIR	AVD4U2130001604GB-4RD	32GB(8GB*4)	SS	AVEXIR	512X8DDR4	16-18-18-36	1.35	*	*
AVEXIR	AVD4U2130001604GB-2BZ1RR	8GB(4GB*2)	SS	AVEXIR	512X8DDR4	16-18-18-36	1.35	*	*
AVEXIR	AVD4U2130001604GB-2BZ1GY	8GB(4GB*2)	SS	AVEXIR	512X8DDR4	16-18-18-36	1.35	*	*
AVEXIR	AVD4U2130001604GB-2BZ1SW	8GB(4GB*2)	SS	AVEXIR	512X8DDR4	16-18-18-36	1.35	*	*
AVEXIR	AVD4U2130001604GB-2RD	8GB(4GB*2)	SS	AVEXIR	512X8DDR4	16-18-18-36	1.35	*	*
AVEXIR	AVD4U2130001604GB-2RDGT	8GB(4GB*2)	SS	AVEXIR	512X8DDR4	16-18-18-36	1.35	*	*
AVEXIR	AVD4U2130001604GB-4BZ1RR	16GB(4GB*4)	SS	AVEXIR	512X8DDR4	16-18-18-36	1.35	*	*
AVEXIR	AVD4U2130001604GB-4BZ1GY	16GB(4GB*4)	SS	AVEXIR	512X8DDR4	16-18-18-36	1.35	*	*
AVEXIR	AVD4U2130001604GB-4BZ1SW	16GB(4GB*4)	SS	AVEXIR	512X8DDR4	16-18-18-36	1.35	*	*
AVEXIR	AVD4U2130001604GB-4RDGT	16GB(4GB*4)	SS	AVEXIR	512X8DDR4	16-18-18-36	1.35	*	*
AVEXIR	AVD4U2130001608GB-2BZ1RR	8GB(4GB*2)	SS	AVEXIR	1024X8DDR4	16-18-18-36	1.35	*	*
AVEXIR	AVD4U2130001608GB-2BZ1GY	8GB(4GB*2)	SS	AVEXIR	1024X8DDR4	16-18-18-36	1.35	*	*
AVEXIR	AVD4U2130001608GB-2BZ1SW	8GB(4GB*2)	SS	AVEXIR	1024X8DDR4	16-18-18-36	1.35	*	*
AVEXIR	AVD4U2130001608GB-2RD	8GB(4GB*2)	SS	AVEXIR	1024X8DDR4	16-18-18-36	1.35	*	*
AVEXIR	AVD4U2130001608GB-2RDGT	8GB(4GB*2)	SS	AVEXIR	1024X8DDR4	16-18-18-36	1.35	*	*
AVEXIR	AVD4U2130001608GB-4BZ1RR	16GB(4GB*4)	SS	AVEXIR	1024X8DDR4	16-18-18-36	1.35	*	*
AVEXIR	AVD4U2130001608GB-4BZ1GY	16GB(4GB*4)	SS	AVEXIR	1024X8DDR4	16-18-18-36	1.35	*	*
AVEXIR	AVD4U2130001608GB-4BZ1SW	16GB(4GB*4)	SS	AVEXIR	1024X8DDR4	16-18-18-36	1.35	*	*
AVEXIR	AVD4U2130001608GB-4RDGT	16GB(4GB*4)	SS	AVEXIR	1024X8DDR4	16-18-18-36	1.35	*	*
G.SKILL	F4-3000C14Q2-128GBVRD	128GB(16GB*8)	DS	-	-	14-14-14-34	1.35	*	*
G.SKILL	F4-3000C14Q2-128GBVKD	128GB(16GB*8)	DS	-	-	14-14-14-34	1.35	*	*
G.SKILL	F4-3000C15D-8GBTZB	8GB(4GB*2)	SS	-	-	15-16-16-35	1.35	*	*
G.SKILL	F4-3000C15D-8GBVRB	8GB(4GB*2)	SS	-	-	15-16-16-35	1.35	*	*
G.SKILL	F4-3000C15Q-16GBTZ	16GB(4GB*4)	SS	-	-	15-15-15-35	1.35	*	*
G.SKILL	F4-3000C15Q-16GBVR	16GB(4GB*4)	SS	-	-	15-15-15-35	1.35	*	*
G.SKILL	F4-3000C15Q-16GBVB	16GB(4GB*4)	SS	-	-	15-15-15-35	1.35	*	*
G.SKILL	F4-3000C15Q-16GBVK	16GB(4GB*4)	SS	-	-	15-15-15-35	1.35	*	*
G.SKILL	F4-3000C15Q-16GBVG	16GB(4GB*4)	SS	-	-	15-15-15-35	1.35	*	*
G.SKILL	F4-3000C15Q-16GBVS	16GB(4GB*4)	SS	-	-	15-15-15-35	1.35	*	*
G.SKILL	F4-3000C15Q-32GTZ	32GB(8GB*4)	DS	-	-	15-15-15-35	1.35	*	*
G.SKILL	F4-3000C15Q-32GVR	32GB(8GB*4)	DS	-	-	15-15-15-35	1.35	*	*
G.SKILL	F4-3000C15Q-32GVB	32GB(8GB*4)	DS	-	-	15-15-15-35	1.35	*	*
G.SKILL	F4-3000C15Q-32GVK	32GB(8GB*4)	DS	-	-	15-15-15-35	1.35	*	*
G.SKILL	F4-3000C15Q-32GVG	32GB(8GB*4)	DS	-	-	15-15-15-35	1.35	*	*
G.SKILL	F4-3000C15Q-32GVS	32GB(8GB*4)	DS	-	-	15-15-15-35	1.35	*	*
ADATA	AX4U3000W4GB16-BWZ	4GB	SS	-	-	16-16-16-36	1.35	*	*
ADATA	AX4U3000W8GB16-BWZ	8GB	DS	-	-	16-16-16-36	1.35	*	*
Apacer	EK.16GBAW.KFBK2	8GB	DS	-	-	16-16-16-36	-	*	*
AVEXIR	AVD4U30001504GB-4CIR	16GB(4GB*4)	DS	-	-	15-15-15-35	1.35	*	*
CORSAIR	CMD32GX4M4B3000C15	32GB(8GB*4)	DS	-	-	15-17-17-35	1.35	*	*
G.SKILL	F4-3000C14Q2-128GBVK	128GB(16GB*8)	DS	-	-	14-14-14-34	1.35	*	*
G.SKILL	F4-3000C15Q-16GBRK	16GB(4GB*4)	SS	-	-	15-15-15-35	1.35	*	*
G.SKILL	F4-3000C16Q2-128GBVKB	128GB(16GB*8)	DS	-	-	16-18-18-38	1.35	*	*
GeIL	GLR4256GB(16GB*16)QC	16GB(4GB*4)	SS	-	-	16-16-16-36	1.35	*	*
GeIL	GWW416GB3000C15DC	16GB(8GB*2)	DS	GeIL	CG4L512G888BA093L	15-17-17-35	1.35	*	*
Klevv	IM464GB(8GB*8)A30-GIIHMC	8GB	DS	-	-	16-18-18-36	1.35	*	*
PATRIOT	PV432G300C6QK-PE000378	32GB(8GB*4)	DS	-	-	16-16-16-36	1.35	*	*
CORSAIR	CMD16GX4M2B3000C15(Ver5.30)	16GB (2x 8GB)	SS	N/A	Heat-Sink Package	15-17-17-35	1.35V	●	●
CORSAIR	CMD32GX4M4C3000C15(Ver5.30)	32GB (4x 8GB)	SS	N/A	Heat-Sink Package	15-17-17-35	1.35V	●	●
CORSAIR	CMR16GX4M2C3000C15(Ver4.31)	16GB (2x 8GB)	SS	N/A	Heat-Sink Package	15-17-17-35	1.35V	●	●
CORSAIR	CMR32GX4M4C3000C15	32GB (4x 8GB)	DS	N/A	Heat-Sink Package	15-17-17-35	1.35V	●	●
Team	TDRRD48G3000HC16CBK	8GB	DS	N/A	Heat-Sink Package	16-18-18-38	1.35V	●	●
Team	TDRGD48G3000HC16CBK	8GB	DS	N/A	Heat-Sink Package	16-18-18-38	1.35V	●	●
GALAXY	HOF DDR4-3000	16GB (2x 8GB)	SS	N/A	Heat-Sink Package	16-18-18-38	1.35V	●	●
GeIL	GLR416GB3000C15ADC	8GB	SS	N/A	Heat-Sink Package	15-17-17-35	1.35V	●	●
G.SKILL	F4-3000C15S-16GVR	16GB	DS	N/A	Heat-Sink Package	15-15-15-35	1.35V	●	●
FORZA	NMUD416E82-3000DB30	16GB	DS	N/A	Heat-Sink Package	15-17-17-35	1.35V	●	●
FORZA	NMUD480E82-3000DB30	8GB	SS	N/A	Heat-Sink Package	15-17-17-35	1.35V	●	●
PATRIOT	PV432G300C6QK	32GB (4x 8GB)	SS	N/A	Heat-Sink Package	16-16-16-36	1.35V	●	●

CORSAIR	CMD8GX4M2B3600C18 ver4.24	16GB(4GB*4)	SS			18-19-19-39	1.35V	*	*	*
GALAXY	HOF4CALCS3600K17LD162C	16GB(8GB*2)	SS	N/A	Heat-Sink Package		1.35V	*	*	*
CORSAIR	CMK16GX4M2B3600C18	16GB(8GB*2)	SS	N/A	Heat-Sink Package	18-19-19-39	1.35V	*	*	*

DDR4 3733 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	DIMM socket support (Optional)		
								1 DIMM	2 DIMM	4 DIMM
G.SKILL	F4-3733C17D-8GRK	8GB(4GB*2)	SS			16-18-18-38	1.35V	*	*	*
G.SKILL	F4-3733C17D-8GVK	8GB(4GB*2)	SS			16-18-18-38	1.35V	*	*	*
G.SKILL	F4-3733C17D-8GTZ	8GB(4GB*2)	SS			17-19-19-39	1.35V	*	*	*
G.SKILL	F4-3733C17Q-16GRK	16GB(4GB*4)	SS			16-18-18-38	1.35V	*	*	*
G.SKILL	F4-3733C17Q-16GVK	16GB(4GB*4)	SS			16-18-18-38	1.35V	*	*	*
G.SKILL	F4-3733C17Q-16GTZ	16GB(4GB*4)	SS			17-19-19-39	1.35V	*	*	*
G.SKILL	F4-3733C17D-16GRK	16GB(8GB*2)	SS			17-17-17-37	1.35V	*	*	*
G.SKILL	F4-3733C17D-16GVK	16GB(8GB*2)	SS			17-17-17-37	1.35V	*	*	*
G.SKILL	F4-3733C17D-16GTZ	16GB(8GB*2)	SS			17-17-17-37	1.35V	*	*	*
CORSAIR	CMD8GX4M2B3733C17 ver4.24	8GB(4GB*2)	SS			17-19-19-39	1.35V	*	*	*

DDR4 3866 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	DIMM socket support (Optional)		
								1 DIMM	2 DIMM	4 DIMM
G.SKILL	F4-3866C17D-8GRK	8GB(4GB*2)	SS			18-22-22-42	1.35V	*	*	*
G.SKILL	F4-3866C17D-8GVK	8GB(4GB*2)	SS			18-22-22-42	1.35V	*	*	*
G.SKILL	F4-3866C17D-8GTZ	8GB(4GB*2)	SS			18-22-22-42	1.35V	*	*	*
G.SKILL	F4-3866C17Q-16GRK	16GB(4GB*4)	SS			18-22-22-42	1.35V	*	*	*
G.SKILL	F4-3866C17Q-16GVK	16GB(4GB*4)	SS			18-22-22-42	1.35V	*	*	*
G.SKILL	F4-3866C17Q-16GTZ	16GB(4GB*4)	SS			18-22-22-42	1.35V	*	*	*

4 DIMM Slots

For each DRAM channel (A,B), make sure to install the DRAM module to beige slot first.

- **1 DIMM:** Supports one (1) module inserted into any beige slot as Single-channel memory configuration. Install the module into the D1 slot for better compatibility.
- **2 DIMMs:** Supports two (2) modules inserted into one pair of beige slots as one pair of Dual-channel memory configuration. Install the modules into slots A1 and B1 for better compatibility.
- **4 DIMMs:** Supports 4 modules inserted into all slots as two pairs of Dual-channel memory configuration.

- Make sure to install the memory modules from the beige slots first.

- 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.

- 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

- 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.

- DIMM fan design may vary, make sure the fan can fit into the motherboard.