

Z170-PRO Memory Qualified Vendors List (QVL)

Z170-PRO Motherboard U-DIMM Qualified Vendors Lists (QVL)

DDR4 4000 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	DIMM socket support (Optional)	
								2 DIMM	4 DIMM
G.SKILL	F4-4000C19D-8GTZ	8GB(4GB*2)	SS	Samsung	K4A4G085WD	19-25-25-45	1.35V	●	

*When running XMP at DDR4 3200 MHz or higher, the system's stability depends on the CPU's capabilities.

DDR4 3866 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	DIMM socket support (Optional)	
								2 DIMM	4 DIMM
CORSAIR	CMK8GX4M2B3866C19 ver. 4.23	16GB(4GB*4)	SS	Samsung	K4A4G085WD	19-23-23-45	1.35V	●	
TEAM GROUP	TCD44G3866C18ABK	16GB(4GB*4)	SS	Samsung	K4A4G085WD	18-20-20-39	1.35V	●	●
G.SKILL	F4-3866C19D-8GTZ	8GB(4GB*2)	SS	Samsung	K4A4G085WD	19-21-21-41	1.35V	●	
G.SKILL	F4-3866C19Q-16GTZ	16GB(4GB*4)	SS	Samsung	K4A4G085WD	19-21-21-41	1.35V	●	●

*When running XMP at DDR4 3200 MHz or higher, the system's stability depends on the CPU's capabilities.

DDR4 3800 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	DIMM socket support (Optional)	
								2 DIMM	4 DIMM
AVEXIR	AVD4UZ138001804G-2XXXX	8GB(4GB*2)	SS	Samsung	K4A4G085WD	18-20-20-40	1.35V	●	

*When running XMP at DDR4 3200 MHz or higher, the system's stability depends on the CPU's capabilities.

DDR4 3733 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	DIMM socket support (Optional)	
								2 DIMM	4 DIMM
G.SKILL	F4-3733C17D-8GRK	8GB(4GB*2)	SS	Samsung	K4A4G085WD	17-19-19-39	1.35V	●	
G.SKILL	F4-3733C17D-8GTZ	8GB(4GB*2)	SS	Samsung	K4A4G085WD	17-19-19-39	1.35V	●	
G.SKILL	F4-3733C17D-8GVK	8GB(4GB*2)	SS	Samsung	K4A4G085WD	17-19-19-39	1.35V	●	
G.SKILL	F4-3733C17D-16GTZ	16GB(8GB*2)	SS	Samsung		17-19-19-39	1.35V	●	
G.SKILL	F4-3733C17Q-16GRK	16GB(4GB*4)	SS	Samsung	K4A4G085WD	17-19-19-39	1.35V	●	●
G.SKILL	F4-3733C17Q-16GTZ	16GB(4GB*4)	SS	Samsung	K4A4G085WD	17-19-19-39	1.35V	●	●
G.SKILL	F4-3733C17Q-16GVK	16GB(4GB*4)	SS	Samsung	K4A4G085WD	17-19-19-39	1.35V	●	●
AVEXIR	AVD4UZ137331804G-2XXXX	8GB(4GB*2)	SS	Samsung	K4A4G085WD	18-20-20-40	1.35V	●	

*When running XMP at DDR4 3200 MHz or higher, the system's stability depends on the CPU's capabilities.

DDR4 3600 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	DIMM socket support (Optional)	
								2 DIMM	4 DIMM
G.SKILL	F4-3600C17D-8GRK	8GB(4GB*2)	SS	Samsung	K4A4G085WD	17-18-18-38	1.35V	●	
G.SKILL	F4-3600C17D-8GTZ	8GB(4GB*2)	SS	Samsung	K4A4G085WD	17-18-18-38	1.35V	●	
G.SKILL	F4-3600C17D-8GVK	8GB(4GB*2)	SS	Samsung	K4A4G085WD	17-18-18-38	1.35V	●	
G.SKILL	F4-3600C17D-16GVK	16GB(8GB*2)	SS	Samsung		17-18-18-38	1.35V	●	
G.SKILL	F4-3600C17D-16GTZ	16GB(8GB*2)	SS	Samsung		17-18-18-38	1.35V	●	
G.SKILL	F4-3600C17Q-16GRK	16GB(4GB*4)	SS	Samsung	K4A4G085WD	17-18-18-38	1.35V	●	●
G.SKILL	F4-3600C17Q-16GTZ	16GB(4GB*4)	SS	Samsung	K4A4G085WD	17-18-18-38	1.35V	●	●

G.SKILL	F4-3600C17Q-16GVK	16GB(4GB*4)	SS	Samsung	K4A4G085WD	17-18-18-38	1.35V	●	●
CORSAIR	CMD8GX4M2B3600C18 ver. 4.23	8GB(4GB*2)	SS	Samsung	K4A4G085WD	18-19-19-39	1.35V	●	
CORSAIR	CMD16GX4M4B3600C18 ver. 4.23	16GB(4GB*4)	SS	Samsung	K4A4G085WD	18-19-19-39	1.35V	●	●
AVEXIR	AVD4UZ136001804G-2XXXX	8GB(4GB*2)	SS	Samsung	K4A4G085WD	18-20-20-40	1.35V	●	
AVEXIR	AVD4UZ136001804G-4XXXX	16GB(4GB*4)	SS	Samsung	K4A4G085WD	18-20-20-40	1.35V	●	●

*When running XMP at DDR4 3200 MHz or higher, the system's stability depends on the CPU's capabilities.

DDR4 3466 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	DIMM socket support (Optional)	
								2 DIMM	4 DIMM
G.SKILL	F4-3466C16D-8GRK	8GB(4GB*2)	SS	Samsung	K4A4G085WD	16-18-18-38	1.35V	●	
G.SKILL	F4-3466C16D-8GTZ	8GB(4GB*2)	SS	Samsung	K4A4G085WD	16-18-18-38	1.35V	●	
G.SKILL	F4-3466C16D-8GVK	8GB(4GB*2)	SS	Samsung	K4A4G085WD	16-18-18-38	1.35V	●	
G.SKILL	F4-3466C16Q-16GRK	16GB(4GB*4)	SS	Samsung	K4A4G085WD	16-18-18-38	1.35V	●	●
G.SKILL	F4-3466C16Q-16GTZ	16GB(4GB*4)	SS	Samsung	K4A4G085WD	16-18-18-38	1.35V	●	●
G.SKILL	F4-3466C16Q-16GVK	16GB(4GB*4)	SS	Samsung	K4A4G085WD	16-18-18-38	1.35V	●	●
CORSAIR	CMD16GX4M4B3466C18	16GB(4GB*4)	SS	Samsung	K4A4G085WD	18-19-19-39	1.35V	●	●
AVEXIR	AVD4UZ134661704G-2XXXX	8GB(4GB*2)	SS	Samsung	K4A4G085WD	17-18-18-38	1.35V	●	
AVEXIR	AVD4UZ134661704G-4XXXX	16GB(4GB*4)	SS	Samsung	K4A4G085WD	17-18-18-38	1.35V	●	●

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DDR4 3400 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	DIMM socket support (Optional)	
								2 DIMM	4 DIMM
G.SKILL	F4-3400C16D-16GRK	16GB(8GB*2)	DS	Samsung	K4A4G085WD	16-18-18-38	1.35V	●	
G.SKILL	F4-3400C16D-16GTZ	16GB(8GB*2)	DS	Samsung	K4A4G085WD	16-18-18-38	1.35V	●	
G.SKILL	F4-3400C16D-16GVK	16GB(8GB*2)	DS	Samsung	K4A4G085WD	16-18-18-38	1.35V	●	
G.SKILL	F4-3400C16D-32GRK	32GB(16GB*2)	DS	Samsung		16-18-18-38	1.35V	●	
G.SKILL	F4-3400C16D-32GTZ	32GB(16GB*2)	DS	Samsung		16-18-18-38	1.35V	●	
G.SKILL	F4-3400C16D-32GVK	32GB(16GB*2)	DS	Samsung		16-18-18-38	1.35V	●	
G.SKILL	F4-3400C16Q-16GRBD	16GB(4GB*4)	SS	Samsung	K4A4G085WD	16-18-18-38	1.35V	●	●
G.SKILL	F4-3400C16Q-16GRKD	16GB(4GB*4)	SS	Samsung	K4A4G085WD	16-16-16-36	1.35V	●	●
G.SKILL	F4-3400C16Q-16GRBD	16GB(4GB*4)	SS	Samsung	K4A4G085WD	16-18-18-38	1.35V	●	●
G.SKILL	F4-3400C16Q-32GRK	32GB(8GB*4)	DS	Samsung	K4A4G085WD	16-18-18-38	1.35V	●	●
G.SKILL	F4-3400C16Q-32GTZ	32GB(8GB*4)	DS	Samsung	K4A4G085WD	16-18-18-38	1.35V	●	●
G.SKILL	F4-3400C16Q-32GVK	32GB(8GB*4)	DS	Samsung	K4A4G085WD	16-18-18-38	1.35V	●	●
G.SKILL	F4-3400C16Q-64GRK	64GB(16GB*4)	DS	Samsung		16-18-18-38	1.35V	●	●
G.SKILL	F4-3400C16Q-64GTZ	64GB(16GB*4)	DS	Samsung		16-18-18-38	1.35V	●	●
G.SKILL	F4-3400C16Q-64GVK	64GB(16GB*4)	DS	Samsung		16-18-18-38	1.35V	●	●
CORSAIR	CMD16GX4M4B3400C16 ver. 5.29	16GB(4GB*4)	SS	SK hynix	H5AN4G8NMFR	16-18-18-40	1.35V	●	
CORSAIR	CMK16GX4M4B3400C16 ver. 4.23	16GB(4GB*4)	SS	Samsung	K4A4G085WD	16-18-18-36	1.35V	●	●
CORSAIR	CMK16GX4M2B3400C16 ver. 4.23	16GB(8GB*2)	DS	Samsung	K4A4G085WD	16-18-18-36	1.35V	●	●
CORSAIR	CMK32GX4M4B3400C16 ver. 4.23	32GB(8GB*4)	DS	Samsung	K4A4G085WD	16-18-18-36	1.35V	●	●

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DDR4 3333 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	DIMM socket support (Optional)	
								2 DIMM	4 DIMM
G.SKILL	F4-3333C16Q-16GRKD	16GB(4GB*4)	SS	Samsung	K4A4G085WD	16-18-18-36	1.35V	●	●
CORSAIR	CMD16GX4M4B3333C16 ver4.23	16GB(4GB*4)	SS	Samsung	K4A4G085WD	16-18-18-36	1.35V	●	●
A-DATA	AX4U3333W4G16	16GB(4GB*4)	SS	SK hynix	H5AN4G8NMFR	16-16-16-36	1.35V	●	
AVEXIR	AVD4UZ133331604G-2XXXX	8GB(4GB*2)	SS	Samsung	K4A4G085WD	16-18-18-38	1.35V	●	
AVEXIR	AVD4UZ133331604G-4XXXX	16GB(4GB*4)	SS	Samsung	K4A4G085WD	16-18-18-38	1.35V	●	●

DDR4 3300 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	DIMM socket support (Optional)	
								2 DIMM	4 DIMM
G.SKILL	F4-3300C16Q-16GRK	16GB(4GB*4)	SS	Samsung	K4A4G085WD	16-18-18-36	1.35V	●	●
G.SKILL	F4-3300C16Q-16GRKD	16GB(4GB*4)	SS	Samsung	K4A4G085WD	16-18-18-36	1.35V	●	●
CORSAIR	CMD16GX4M4B3300C16	16GB(4GB*4)	SS	Samsung	K4A4G085WD	16-18-18-36	1.35V	●	●

*When running XMP at DDR4 3200 MHz or higher, the system's stability depends on the CPU's capabilities.

DDR4 3200 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	DIMM socket support (Optional)	
								2 DIMM	4 DIMM
G.SKILL	F4-3200C16D-8GRK	8GB(4GB*2)	SS	Samsung	K4A4G085WD	16-16-16-36	1.35V	●	
G.SKILL	F4-3200C16D-8GTZ	8GB(4GB*2)	SS	Samsung	K4A4G085WD	16-16-16-36	1.35V	●	
G.SKILL	F4-3200C16D-8GVK	8GB(4GB*2)	SS	Samsung	K4A4G085WD	16-16-16-36	1.35V	●	
G.SKILL	F4-3200C16D-16GRK	16GB(8GB*2)	DS	Samsung	K4A4G085WD	16-16-16-36	1.35V	●	
G.SKILL	F4-3200C16D-16GTZ	16GB(8GB*2)	DS	Samsung	K4A4G085WD	16-16-16-36	1.35V	●	
G.SKILL	F4-3200C16D-16GVK	16GB(8GB*2)	DS	Samsung	K4A4G085WD	16-16-16-36	1.35V	●	
G.SKILL	F4-3200C15D-32GRK	32GB(16GB*2)	DS	Samsung		15-15-15-35	1.35V	●	
G.SKILL	F4-3200C15D-32GTZ	32GB(16GB*2)	DS	Samsung		15-15-15-35	1.35V	●	
G.SKILL	F4-3200C15D-32GVK	32GB(16GB*2)	DS	Samsung		15-15-15-35	1.35V	●	
G.SKILL	F4-3200C16D-32GRK	32GB(16GB*2)	DS	Samsung		16-18-18-38	1.35V	●	
G.SKILL	F4-3200C16D-32GTZ	32GB(16GB*2)	DS	Samsung		16-18-18-38	1.35V	●	
G.SKILL	F4-3200C16D-32GVK	32GB(16GB*2)	DS	Samsung		16-18-18-38	1.35V	●	
G.SKILL	F4-3200C16Q-16GRR	16GB(4GB*4)	SS	Samsung	K4A4G085WD	16-16-16-36	1.35V	●	●
G.SKILL	F4-3200C16Q-16GRB	16GB(4GB*4)	SS	Samsung	K4A4G085WD	16-16-16-36	1.35V	●	●
G.SKILL	F4-3200C16Q-16GRKD	16GB(4GB*4)	SS	Samsung	K4A4G085WD	16-16-16-36	1.35V	●	●
G.SKILL	F4-3200C16Q-16GTZ	16GB(4GB*4)	SS	Samsung	K4A4G085WD	16-16-16-36	1.35V	●	●
G.SKILL	F4-3200C16Q-16GVK	16GB(4GB*4)	SS	Samsung	K4A4G085WD	16-16-16-36	1.35V	●	●
G.SKILL	F4-3200C16Q-32GRK	32GB(8GB*4)	DS	Samsung	K4A4G085WD	16-16-16-36	1.35V	●	●
G.SKILL	F4-3200C16Q-32GTZ	32GB(8GB*4)	DS	Samsung	K4A4G085WD	16-16-16-36	1.35V	●	●
G.SKILL	F4-3200C16Q-32GVK	32GB(8GB*4)	DS	Samsung	K4A4G085WD	16-16-16-36	1.35V	●	●
G.SKILL	F4-3200C16Q-64GRK	64GB(16GB*4)	DS	Samsung		16-18-18-38	1.35V	●	●
G.SKILL	F4-3000C16Q-64GTZ	64GB(16GB*4)	DS	Samsung		16-18-18-38	1.35V	●	●
G.SKILL	F4-3200C16Q-64GVK	64GB(16GB*4)	DS	Samsung		16-18-18-38	1.35V	●	●
AVEXIR	AVD4U32001604G-4BZ1	16GB(4GB*4)	SS	SK hynix	H5AN4G8NMFR	16-18-18-36	1.35V	●	●
AVEXIR	AVD4U32001604G-4CIR	16GB(4GB*4)	SS			16-18-18-36	1.35V	●	●
CORSAIR	CMD16GX4M2B3200C16	16GB(8GB*2)	DS	Samsung		16-18-18-36	1.35V	●	

CORSAIR	CMK32GX4M2B3200C16	32GB(16GB*2)	DS	Samsung	16-18-18-36	1.35V	●	
CORSAIR	CMD16GX4M4B3200C15	16GB(4GB*4)	SS		15-17-17-35	1.35V	●	●
CORSAIR	CMD16GX4M4B3200C16	16GB(4GB*4)	SS		16-18-18-36	1.35V	●	●
GEIL	GPR416GB3200C15QC	16GB(4GB*4)	SS		15-15-15-35	1.35V	●	●
Kingston	HX432C16PB2K4/16	16GB(4GB*4)	SS		16-16-16-39	1.35V	●	●
panram	PUD43200C164G4NJW	16GB(4GB*4)	SS		16-18-18-39	1.35V	●	●

*When running XMP at DDR4 3200 MHz or higher, the system's stability depends on the CPU's capabilities.

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
G.SKILL	F4-3000C15D-8GRK	8GB(4GB*2)	SS	Samsung	K4A4G085WD	15-15-15-35	1.35V	●		
G.SKILL	F4-3000C15D-8GTZ	8GB(4GB*2)	SS	Samsung	K4A4G085WD	15-15-15-35	1.35V	●		
G.SKILL	F4-3000C15D-8GVK	8GB(4GB*2)	SS	Samsung	K4A4G085WD	15-15-15-35	1.35V	●		
G.SKILL	F4-3000C15D-16GRK	16GB(8GB*2)	DS	Samsung	K4A4G085WD	15-15-15-35	1.35V	●		
G.SKILL	F4-3000C15D-16GTZ	16GB(8GB*2)	DS	Samsung	K4A4G085WD	15-15-15-35	1.35V	●		
G.SKILL	F4-3000C15D-16GVK	16GB(8GB*2)	DS	Samsung	K4A4G085WD	15-15-15-35	1.35V	●		
G.SKILL	F4-3000C15D-32GRK	32GB(16GB*2)	DS	Samsung		15-15-15-35	1.35V	●		
G.SKILL	F4-3000C15D-32GTZ	32GB(16GB*2)	DS	Samsung		15-15-15-35	1.35V	●		
G.SKILL	F4-3000C15D-32GVK	32GB(16GB*2)	DS	Samsung		15-15-15-35	1.35V	●		
G.SKILL	F4-3000C15Q-16GRR	16GB(4GB*4)	SS	Samsung	K4A4G085WD	15-15-15-35	1.35V	●	●	
G.SKILL	F4-3000C15Q-16GRB	16GB(4GB*4)	SS	Samsung	K4A4G085WD	15-15-15-35	1.35V	●	●	
G.SKILL	F4-3000C15Q-16GRK	16GB(4GB*4)	SS	Samsung	K4A4G085WD	15-15-15-35	1.35V	●	●	
G.SKILL	F4-3000C15Q-16GTZ	16GB(4GB*4)	SS	Samsung	K4A4G085WD	15-15-15-35	1.35V	●	●	
G.SKILL	F4-3000C15Q-16GVK	16GB(4GB*4)	SS	Samsung	K4A4G085WD	15-15-15-35	1.35V	●	●	
G.SKILL	F4-3000C15Q-32GRR	32GB(8GB*4)	DS	Samsung	K4A4G085WD	15-15-15-35	1.35V	●	●	
G.SKILL	F4-3000C15Q-32GRB	32GB(8GB*4)	DS	Samsung	K4A4G085WD	15-15-15-35	1.35V	●	●	
G.SKILL	F4-3000C15Q-32GRK	32GB(8GB*4)	DS	Samsung	K4A4G085WD	15-15-15-35	1.35V	●	●	
G.SKILL	F4-3000C15Q-32GTZ	32GB(8GB*4)	DS	Samsung	K4A4G085WD	15-15-15-35	1.35V	●	●	
G.SKILL	F4-3000C15Q-32GVK	32GB(8GB*4)	DS	Samsung	K4A4G085WD	15-15-15-35	1.35V	●	●	
G.SKILL	F4-3000C15Q-64GRK	64GB(16GB*4)	DS	Samsung		15-15-15-35	1.35V	●	●	
G.SKILL	F4-3000C15Q-64GTZ	64GB(16GB*4)	DS	Samsung		15-15-15-35	1.35V	●	●	
G.SKILL	F4-3000C15Q-64GVK	64GB(16GB*4)	DS	Samsung		15-15-15-35	1.35V	●	●	
GeIL	GWW416GB3000C15DC	16GB (2x 8GB)	DS	-	-	15-17-17-35	1.35V	●		
AVEXIR	AVD4U30001604G-4CI	16GB(4GB*4)	SS	SK hynix	H5AN4G8NMFR	16-18-18-36	1.35V	●	●	
AVEXIR	AVD4U30001504G-4BZ1	16GB(4GB*4)	SS	SK hynix	H5AN4G8NMFR	15-15-15-35	1.35V	●	●	
AVEXIR	AVD4U30001608G-4CI	32GB(8GB*4)	DS	SK hynix	H5AN4G8NMFR	16-18-18-36	1.35V	●		
Kingston	HX430C15PB2K4/16	16GB(4GB*4)	SS			15-16-16-39	1.35V	●	●	
Kingston	HX430C16PBK4/64	64GB (4x 16GB)	DS			16-16-16-39	1.35V	●	●	
KLEVV	IM44GU48A30-GIIHMC	4GB	SS			16-18-18-36	1.35v	●	●	
CORSAIR	CMD16GX4M4B3000C15	16GB(4GB*4)	SS	Samsung	K4A4G085WD	15-17-17-35	1.35V	●	●	
CORSAIR	CMK16GX4M4B3000C15	16GB(4GB*4)	SS	Samsung	K4A4G085WD	15-17-17-35	1.35V	●	●	
CORSAIR	CMD32GX4M4B3000C15(Ver4.23)	32GB (4x 8GB)	DS	-	-	15-17-17-35	1.35V	●	●	
CORSAIR	CMK16GX4M2B3000C15	16GB (2x 8GB)	DS	-	-	15-17-17-35	1.35V	●	●	
panram	PUD43000C154G4NJW	16GB(4GB*4)	SS			15-17-17-35	1.35V	●	●	
Asint	SLB404G08-EWWHMX	16GB(8GB*2)	SS	SK hynix	H5AN4G8NMFR	15-15-15-44	1.35V	●		

DDR4 2800 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	DIMM socket support (Optional)		
								1 DIMM	2 DIMM	4 DIMM
ADATA	AX4U2800W4G17	32GB (8x 4GB)	DS	-	-	17-17-17-36	1.2	●	●	●
ADATA	AX4U2800W8G17	8GB	DS	-	-	15-15-15-36	1.2	●	●	●
ADATA	AX4U2800316G16(XMP)	16GB	DS	-	-	16-16-16-36	1.2			●
Apacer	78.BAGM8.AF20B(XMP)	4GB	SS	-	-	17-17-17-36	-	●	●	●
Apacer	78.CAGM8.AF30B(XMP)	8GB	DS	-	-	17-17-17-36	-	●	●	●
AVEXIR	AVD4U28001504G-4CIR(XMP)	4GB	SS	-	-	15-15-15-35	1.35	●	●	●
AVEXIR	AVD4U28001608G-4CIR(XMP)	32GB (8x 4GB)	DS	-	-	16-16-16-36	1.2	●	●	●
CORSAIR	CMD16GX4M4A2800C16(Ver4.23)(XMP)	16GB (4x 4GB)	SS	-	-	16-18-18-36	1.2	●	●	●
CORSAIR	CMD16GX4M4A2800C16(Ver5.29)	16GB (4x 4GB)	SS	-	-	16-18-18-36	1.2	●	●	●
CORSAIR	CMD32GX4M4A2800C16(Ver5.29)(XMP)	32GB (4x 8GB)	DS	-	-	18-18-18-36	1.2	●	●	●
CORSAIR	CMK16GX4M4A2800C16(Ver4.23)(XMP)	16GB (4x 4GB)	SS	-	-	16-16-18-36	1.2	●	●	●
CORSAIR	CMK16GX4M4A2800C16(Ver5.29)	16GB (4x 4GB)	SS	-	-	16-18-18-36	1.2	●	●	●
CORSAIR	CMK32GX4M4A2800C16(Ver5.29)(XMP)	32GB (4x 8GB)	DS	-	-	16-18-18-36	1.2	●	●	●
CORSAIR	CMD32GX4M4A2800C15(Ver5.29)	32GB (4x 8GB)	DS	-	-	15-17-17-36	1.2	●	●	●
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-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	●	●	●
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	●	●	●
Kingston	HX428C14PBK4/16(XMP)	16GB (4x 4GB)	SS	-	-	14-15-15-40	1.35	●	●	●
Kingston	HX428C14PBK8/64(XMP)	64GB (8x 8GB)	DS	-	-	14-15-15-39	1.35	●	●	●
KLEVV	IMA451U6MFR8N-DG0(Ver1.05)(XMP)	4GB	SS	-	-	16-16-16-36	1.2	●	●	●
Panram	PUD42800C164G4NJW(XMP)	16GB (4x 4GB)	SS	-	-	16-18-18-36	1.25	●	●	●

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
AVEXIR	AVD4U26661504G-4CIR(XMP)	4GB	SS	-	-	15-15-15-35	1.2	●	●	●
AVEXIR	AVD4U26661608G-4CIR(XMP)	32GB (8x 4GB)	DS	-	-	16-16-16-36	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)	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	CMD8GX4M2A2666C15(Ver4.23)(XMP)	8GB (2x 4GB)	DS	-	-	15-17-17-35	1.2	●	●	
CORSAIR	CMK16GX4M2A2666C16(Ver5.29)(XMP)	16GB (2x 8GB)	DS	-	-	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)	16GB (4x 4GB)	SS	-	-	15-17-17-35	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	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(Ver5.29)(XMP)	32GB (4x 8GB)	DS	-	-	16-16-18-35	1.2	●	●	●
CORSAIR	CMK32GX4M4A2666C16R(Ver4.23)(XMP)	32GB (4x 8GB)	DS	-	-	16-18-18-35	1.2	●	●	●
CORSAIR	CMK64GX4M4A2666C16(Ver4.31)	64GB (4x 16GB)	DS	-	-	16-18-18-36	1.2	●	●	●
Crucial	BLE4G4D26AFE.8FAD (XMP)	8GB	SS	-	-	16-17-17-36	1.2	●	●	●
Crucial	BLE8G4D26AFE.16FAD(XMP)	16GB	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-32GRR(XMP)	32GB (4x 8GB)	DS	-	-	15-15-15-35	1.2	●	●	●
G.SKILL	F4-2666C16Q2-64GRB(XMP)	64GB (8x 8GB)	DS	-	-	16-16-16-36	1.2	●	●	●
Kingston	HX426C15FBK4/16(XMP)	16GB (4x 4GB)	SS	-	-	15-17-17-35	1.2	●	●	●
Kingston	HX426C15FBK2/16	16GB (2x 8GB)	DS	-	-	15-15-17-35	1.2	●	●	
Kingston	HX426C15FBK4/32	32GB(4x 8GB)	DS	-	-	15-15-17-35	1.2	●	●	●
KLEVV	KM4C8GX4N-2666-15-15-15-35-0	8GB	DS	-	-	15-15-15-35	1.2	●	●	●
KLEVV	KM4C4GX4N-2666-15-15-15-35-0	4GB	SS	-	-	15-15-15-35	1.2	●	●	●
KLEVV	KM4C8GX4N-2666-15-15-15-35-1	8GB	DS	-	-	15-15-15-35	1.2	●	●	●
KLEVV	KM4C4GX4N-2666-15-15-15-35-1	4GB	SS	-	-	15-15-15-35	1.2	●	●	●
Team	TCD44G2666C15ABK(XMP)	4GB	SS	Samsung	K4A4G085WD	15-15-15-35	1.2	●	●	●
Team	TCD48G2666C15ABK(XMP)	32GB(4x 8GB)	DS	Team	TCD48G2666C15ABK	15-15-15-35	1.2	●	●	●

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
AVEXIR	AVD4U24001604G-4CIR(XMP)	4GB	SS	-	-	16-16-16-36	1.2	●	●	●
AVEXIR	AVD4U24001608G-4M	32GB (8x 4GB)	DS	SK Hynix	H5AN4G8NMFRTFC	16-16-16-39	1.2	●	●	●
AVEXIR	AVD4U24001608G-4M(XMP)	32GB (4x 8GB)	DS	SK Hynix	H5AN4G8NMFRTFC	16-16-16-36	1.2	●	●	●
ADATA	AX4U2400W4G16-QRZ(XMP)	32GB (4x 8GB)	SS	-	-	16-16-16-39	1.2	●	●	●
ADATA	AX4U2400W8G16-QRZ(XMP)	32GB (4x 8GB)	DS	-	-	16-16-16-39	1.2	●	●	●
Apacer	78.B1GMS.4050B	4GB	SS	Samsung	K4A4G085WD	17-17-17-39	-	●	●	●
Apacer	78.C1GMS.4010B	8GB	DS	Samsung	K4A4G085WD	17-17-17-39	-	●	●	●
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	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	CMK64GX4M4A2400C14(Ver4.31)	64GB (4x 16GB)	DS	-	-	14-16-16-31	1.2	●	●	●
Crucial	BLS4G4D240FSA.8FAD	4GB	SS	-	-	16-16-16-40	1.2	●	●	●
Crucial	BLS4G4D240FSA.8FAR(XMP)	4GB	SS	-	-	17-16-16-39	1.2	●	●	●
Crucial	BLS8G4D240FSA.16FAD	8GB	DS	-	-	16-16-16-40	1.2	●	●	●
Crucial	BLS8G4D240FSA.16FAR(XMP)	8GB	DS	-	-	17-16-16-39	1.2	●	●	●
Crucial	BLS8G4D240FSA.16FADG	16GB (2x 8GB)	DS	-	-	16-16-16-39	1.2	●	●	●
Foxteonn	FEU8GN51208KC2400H	8GB	DS	Nanya	NT5AD512M8B1-FM	17-17-17-39	1.2	●	●	●
G.SKILL	F4-2400C15Q-16GRR	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	F4-2400C15Q-32GRR	32GB (4x 8GB)	DS	-	-	15-15-15-35	1.2	●	●	●
GelL	GLR464GB2400C14QC(XMP)	16GB (4x 4GB)	DS	-	-	14-14-14-35	1.2	●	●	●
GelL	GPR416GB2400C15QC(XMP)	16GB (4x 4GB)	SS	-	-	15-15-15-35	1.2	●	●	
GelL	GPR432GB2400C15QC(XMP)	32GB (4x 8GB)	DS	-	-	15-15-15-35	1.2	●	●	
Kingston	HX424C12PB2K4/16	16GB (4x 4GB)	SS	-	-	15-15-15-36	1.2	●	●	●
Kingston	HX424C15FBK4/32	32GB (4x 8GB)	DS	-	-	15-15-15-35	1.2	●	●	●
Panram	PUD42400C154G4NJW	16GB (4x 4GB)	SS	-	-	15-15-15-35	1.2	●	●	●
Panram	PUD42400C158G4NJW	32GB (4x 8GB)	DS	-	-	15-15-15-35	1.2	●	●	●
Team	TED44GM2400C16BK	4GB	SS	Samsung	K4A4G085WD	16-16-16-39	1.2	●	●	●
Team	TED48GM2400C16BK	8GB	DS	Samsung	K4A4G085WD	16-16-16-39	1.2	●	●	●
V-color	TD8G16C17-UH	8GB	DS	V-color	A4G8H-24CS	17-17-17-39	1.2	●	●	
V-color	TD4G8C17-UH	4GB	SS	V-color	DW3J0460HM	15-15-15-36	1.2	●	●	●

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
ADATA	AD4U2133W4G15-B	4GB	SS	SK Hynix	H5AN4G8NMFRTFC	15-15-15-36	-	●	●	●
ADATA	AD4U2133W8G15	8GB	DS	SK Hynix	H5AN4G8NMFRTFC	15-15-15-36	1.2	●	●	●
Apacer	78.B1GM3.AF00B	4GB	SS	SK Hynix	H5AN4G8NMFRTFC	15-15-15-36	1.2	●	●	●
Apacer	78.C1GM3.AF10B	8GB	DS	SK Hynix	H5AN4G8NMFRTFC	15-15-15-36	1.2	●	●	●
AVEXIR	AVD4U21331504G-4M	4GB	SS	AVEXIR	512X8DDR4	15-15-15-35	1.2	●	●	●
CENTURY MICRO INC	CD8G-D4U2133	8GB	DS	SK Hynix	H5AN4G8NMFRTFC	15-15-15-36	1.2	●	●	●
CENTURY MICRO INC	CK8GX4-D4U2133	32GB(8GB*4)	DS	SK hynix	H5AN4G8NMFRTFC	15-15-15-35	1.2	●	●	●
CORSAIR	CMD16GX4M4B2133C10(Ver3.20)	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	CMK32GX4M4A2133C13(Ver4.23)(XMP)	32GB (4x 8GB)	DS	-	-	13-15-15-28	1.2	●	●	●
CORSAIR	CMK64GX4M8A2133C13(Ver4.23)(XMP)	64GB (8x 8GB)	DS	-	-	13-15-15-28	1.2	●	●	●
CORSAIR	CMV4GX4M1A2133C15	4GB	SS	-	-	15-15-15-36	1.2	●	●	●
CORSAIR	CMV8GX4M1A2133C15	8GB	DS	-	-	15-15-15-36	1.2	●	●	●
CORSAIR	CMK32GX4M4A2133C15(Ver5.29)	32GB (4x 8GB)	DS	-	-	15-15-15-36	1.2	●	●	●
CORSAIR	CMK32GX4M4A2133C15(Ver3.20)	32GB (4x 8GB)	DS	-	-	15-15-15-36	1.2	●	●	●
Crucial	CT4G4DFS8213.8FA1	4GB	SS	Micron	D9RGQ	15-15-15-37	1.2	●	●	●
Crucial	CT8G4DFD8213.16FA1	8GB	DS	Micron	D9RGQ	15-15-15-37	1.2	●	●	●
Crucial	CT8G4DFD8213.C16FAD11	16GB (2x 8GB)	DS	Micron		15-15-15-37	1.2	●	●	●
Foxteonn	FEU4GN51208JC2133F	4GB	SS	Nanya	NT5AD512M8B1-FM	15-15-15-37	1.2	●	●	●
G.SKILL	F4-2133C15Q-16GRR	16GB (4x 4GB)	SS	-	-	15-15-15-35	1.2	●	●	●
G.SKILL	F4-2133C15Q-32GRR	32GB (4x 8GB)	DS	-	-	15-15-15-35	-	●	●	●
GelL	GPR416GB2133C15QC	16GB (4x4GB)	SS	-	-	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	H5AN4G8NMFRTFC	15-15-15-37	1.2	●	●	●
KLEVV	KM4C8GX4N-2133-15-15-15-35-0	8GB	DS	-	-	15-15-15-35	1.2	●	●	●
KLEVV	KM4C4GX4N-2133-15-15-15-35-0	4GB	SS	-	-	15-15-15-35	1.2	●	●	●
KLEVV	KM4C8GX4N-2133-15-15-15-35-1	8GB	DS	-	-	15-15-15-35	1.2	●	●	●
KLEVV	KM4C4GX4N-2133-15-15-15-35-1	4GB	SS	-	-	15-15-15-35	1.2	●	●	●
Micron	MTA16ATF1G64AZ-2G1A2	8GB	DS	Micron	D9RGQ	15-15-15-37	1.2	●	●	●
Micron	MTA8ATF51264AZ-2G1A2	4GB	SS	Micron	D9RGQ	15-15-15-37	1.2	●	●	●
Panram	PUD42133C134G4NJW	16GB (4x 4GB)	SS	-	-	13-13-13-35	1.2	●	●	●

Panram	PUD42133C138G4NJW	32GB (4x 8GB)	DS	-	-	13-13-13-35	1.2	•	•	•
Panram	PUD42133C154G2VS	8GB (2x 4GB)	SS	SK Hynix	H5AN4GBNMFRTFC	15-15-15-36	1.2	•	•	•
panram	PUD42133C154GNJK	4GB	SS	-	-	15-15-15-36	1.2	•	•	•
Panram	PUD42133C158G2VS	16GB (2x 8GB)	DS	SK Hynix	H5AN4GBNMFRTFC	15-15-15-36	1.2	•	•	•
panram	PUD42133C158GNJK	8GB	DS	-	-	15-15-15-36	1.2	•	•	•
Samsung	M378A1G43DB0-CPB	8GB	DS	Samsung	K4A4G085WD	15-15-15-36	-	•	•	•
Samsung	M378A5143DB0-CPB	4GB	SS	Samsung	K4A4G085WD	15-15-15-36	-	•	•	•
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	-	•	•	•
SK Hynix	HMA41GU6MFR8N-TF	8GB	DS	SK Hynix	H5AN4G8NMFRTFC	15-15-15-37	1.2	•	•	•
SK Hynix	HMA451U6MFR8N	4GB	SS	SK Hynix	H5AN4G8NMFRTFC	15-15-15-36	1.2	•	•	•
SK Hynix	HMA82GU6MFR8N-TF	16GB	DS	SK Hynix	H5AN8G8NMFRTFC	15-15-15-36	-	•	•	•
SUPER TALENT	FBU2B008GM	8GB	DS	Micron	D9RGQ	15-15-15-36	1.2	•	•	•
Team	TED44GM2133C15ABK	4GB	SS	SK Hynix	H5AN4G8NMFRTFC	15-15-15-36	1.2	•	•	•
Transcend	TS1GLH64V1H	8GB	DS	Samsung	K4A4G085WD	15-15-15-37	1.2	•	•	•
Transcend	TS512MLH64V1H	4GB	SS	Samsung	K4A4G085WD	15-15-15-37	1.2	•	•	•
UMAX	84G44G93MC-21OMCALGF15	4GB	SS	Micron	D9RGQ	15-15-15-36	-	•	•	•
UMAX	84G48G93MC-21OMCNGF15	8GB	DS	Micron	D9RGQ	15-15-15-36	-	•	•	•

4 DIMM Slots

- **1 DIMM:** Supports one module inserted in any slot as Single-channel memory configuration. Install the module into A2 slot for better compatibility.
- **2 DIMM:** Supports one pair of modules inserted into the same color slots as one pair of Dual-channel memory configuration. Install the modules into A2/B2 slots for better compatibility.
- **4 DIMM:** Supports 4 modules inserted into both A1/A2 and B1/B2 slots as two pairs of Dual-channel memory configuration

-When running XMP at DDR4 3200 MHz or higher, the system's stability depends on the CPU's capabilities.

-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.

-Highly recommended to use 4-DIMM/2-DIMM kit for full DIMM configuration. Full DIMM support is subject to the physical characteristics of individual CPUs or Memory.

-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.