

Intel Core X-Series processor (6-core or above)

DDR4 4200 Qualified Vendors List (QVL)

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

DDR4 4133 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	DIMM socket support (Optional)		
								2 DIMM	4 DIMM	8 DIMM
G.SKILL	F4-4133C19Q2-64GTZSWE	64GB(8GB*8)	SS			19-19-19-39	1.4V			•
G.SKILL	F4-4133C19Q2-64GTZKKE	64GB(8GB*8)	SS			19-19-19-39	1.4V			•
CORSAIR	CMK64GX4M8X4133C19	64GB(8GB*8)	SS			19-25-25-45	1.4V			•
CORSAIR	CMR64GX4M8X4133C19	64GB(8GB*8)	SS			19-25-25-45	1.4V			•

DDR4 4000 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	DIMM socket support (Optional)		
								2 DIMM	4 DIMM	8 DIMM
G.SKILL	F4-4000C18Q2-64GTZSW	64GB(8GB*8)	SS			18-19-19-39	1.35V			•
G.SKILL	F4-4000C18Q2-64GTZKK	64GB(8GB*8)	SS			18-19-19-39	1.35V			•
G.SKILL	F4-4000C18Q2-64GTZR	64GB(8GB*8)	SS			18-19-19-39	1.35V			•
CORSAIR	CMK64GX4M8X4000C19	64GB(8GB*8)	SS			19-23-23-45	1.35V			•
CORSAIR	CMR64GX4M8X4000C19	64GB(8GB*8)	SS			19-23-23-45	1.35V			•

DDR4 3800 Qualified Vendors List (QVL)

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

CORSAIR	CMK128GX4M8X3800C19	128GB(16GB*8)	DS			19-19-19-39	1.35V				•
CORSAIR	CMR128GX4M8X3800C19	128GB(16GB*8)	DS			19-19-19-39	1.35V				•

DDR4 3733 Qualified Vendors List (QVL)

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

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	8 DIMM	
G.SKILL	F4-3600C16Q-32GTZSW	32GB(8GB*4)	SS			16-16-16-36	1.35V	•	•		
G.SKILL	F4-3600C16Q-32GTZKK	32GB(8GB*4)	SS			16-16-16-36	1.35V	•	•		
G.SKILL	F4-3600C16Q-32GTZR	32GB(8GB*4)	SS			16-16-16-36	1.35V	•	•		
G.SKILL	F4-3600C16Q2-64GTZSW	64GB(8GB*8)	SS			16-16-16-36	1.35V	•	•	•	
G.SKILL	F4-3600C16Q2-64GTZKK	64GB(8GB*8)	SS			16-16-16-36	1.35V	•	•	•	
G.SKILL	F4-3600C16Q2-64GTZR	64GB(8GB*8)	SS			16-16-16-36	1.35V	•	•	•	
G.SKILL	F4-3600C17Q2-128GTZSW	128GB(16GB*8)	DS			17-19-19-39	1.35V	•	•	•	
G.SKILL	F4-3600C17Q2-128GTZKK	128GB(16GB*8)	DS			17-19-19-39	1.35V	•	•	•	
G.SKILL	F4-3600C17Q2-128GTZR	128GB(16GB*8)	DS			17-19-19-39	1.35V	•	•	•	
CORSAIR	CMK64GX4M8X3600C18	64GB(8GB*8)	SS			18-19-19-39	1.35V	•	•	•	
CORSAIR	CMR64GX4M8X3600C18	64GB(8GB*8)	SS			18-19-19-39	1.35V	•	•	•	
CORSAIR	CMK128GX4M8X3600C18	128GB(16GB*8)	DS			18-19-19-39	1.35V	•	•	•	
CORSAIR	CMR128GX4M8X3600C18	128GB(16GB*8)	DS			18-19-19-39	1.35V	•	•	•	
CORSAIR	CMK64GX4M4B3600C18	64GB(16GB*4)	DS			18-19-19-39	1.35V	•	•		
CORSAIR	CMD32GX4M4B3600C16	32GB(8GB*4)	SS			16-18-18-36	1.35V	•	•		
CORSAIR	CMK32GX4M4B3600C16R	32GB(8GB*4)	SS			16-18-18-36	1.35V	•	•		
CORSAIR	CMK32GX4M4B3600C18	32GB(8GB*4)	SS			18-19-19-39	1.35V	•	•		
CORSAIR	CMR32GX4M4C3600C18	32GB(8GB*4)	SS			16-18-18-36	1.35V	•	•		

CORSAIR	CMK32GX4M4B3600C18R	32GB(8GB*4)	SS		18-19-19-39	1.35V	●	●
CORSAIR	CMK16GX4M4B3600C18	16GB(4GB*4)	SS		18-19-19-39	1.35V	●	●
CORSAIR	CMD16GX4M4B3600C18	16GB(4GB*4)	SS		18-19-19-39	1.35V	●	●
Kingston	HX436C17PB3K4/32	32GB(8GB*4)	SS		17-18-18-39	1.35V	●	●

DDR4 3466 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	DIMM socket support (Optional)		
								2 DIMM	4 DIMM	8 DIMM
G.SKILL	F4-3466C16Q-32GTZSW	32GB(8GB*4)	SS			16-18-18-38	1.35V	●	●	
G.SKILL	F4-3466C16Q-32GTZKK	32GB(8GB*4)	SS			16-18-18-38	1.35V	●	●	
G.SKILL	F4-3466C16Q-32GTZR	32GB(8GB*4)	SS			16-18-18-38	1.35V	●	●	
G.SKILL	F4-3466C16Q2-64GTZSW	64GB(8GB*8)	SS			16-18-18-38	1.35V	●	●	●
G.SKILL	F4-3466C16Q2-64GTZKK	64GB(8GB*8)	SS			16-18-18-38	1.35V	●	●	●
G.SKILL	F4-3466C16Q2-64GTZR	64GB(8GB*8)	SS			16-18-18-38	1.35V	●	●	●
G.SKILL	F4-3466C16Q-64GTZSW	64GB(16GB*4)	DS			16-18-18-38	1.35V	●	●	
G.SKILL	F4-3466C16Q-64GTZKK	64GB(16GB*4)	DS			16-18-18-38	1.35V	●	●	
G.SKILL	F4-3466C16Q-64GTZR	64GB(16GB*4)	DS			16-18-18-38	1.35V	●	●	
G.SKILL	F4-3466C16Q2-128GTZSW	128GB(16GB*8)	DS			16-18-18-38	1.35V	●	●	●
G.SKILL	F4-3466C16Q2-128GTZKK	128GB(16GB*8)	DS			16-18-18-38	1.35V	●	●	●
G.SKILL	F4-3466C16Q2-128GTZR	128GB(16GB*8)	DS			16-18-18-38	1.35V	●	●	●
CORSAIR	CMK64GX4M4B3466C16	64GB(16GB*4)	DS			16-18-18-36	1.35V	●	●	
CORSAIR	CMR64GX4M4C3466C16	64GB(16GB*4)	DS			16-18-18-36	1.35V	●	●	
CORSAIR	CMD64GX4M4B3466C16	64GB(16GB*4)	DS			16-18-18-36	1.35V	●	●	
CORSAIR	CMK64GX4M4B3466C16R	64GB(16GB*4)	DS			16-18-18-36	1.35V	●	●	
CORSAIR	CMK32GX4M4B3466C16	32GB(8GB*4)	SS			16-18-18-36	1.35V	●	●	
CORSAIR	CMR32GX4M4C3466C16	32GB(8GB*4)	SS			16-18-18-36	1.35V	●	●	
CORSAIR	CMD32GX4M4B3466C16	32GB(8GB*4)	SS			16-18-18-36	1.35V	●	●	
CORSAIR	CMU32GX4M4C3466C16	32GB(8GB*4)	SS			16-18-18-36	1.35V	●	●	
CORSAIR	CMK32GX4M4B3466C16R	32GB(8GB*4)	SS			16-18-18-36	1.35V	●	●	
CORSAIR	CMU32GX4M4C3466C16R	32GB(8GB*4)	SS			16-18-18-36	1.35V	●	●	
CORSAIR	CMK16GX4M4B3466C16	16GB(4GB*4)	SS			16-18-18-36	1.35V	●	●	
CORSAIR	CMK16GX4M4B3466C16R	16GB(4GB*4)	SS			16-18-18-36	1.35V	●	●	

DDR4 3400 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	DIMM socket support (Optional)		
								2 DIMM	4 DIMM	8 DIMM
CORSAIR	CMK64GX4M8B3400C16	64GB(8GB*8)	SS			16-18-18-36	1.35V	•	•	•
CORSAIR	CMK64GX4M8B3400C16R	64GB(8GB*8)	SS			16-18-18-36	1.35V	•	•	•
CORSAIR	CMK32GX4M4B3400C16	32GB(8GB*4)	SS			16-18-18-36	1.35V	•	•	
CORSAIR	CMK32GX4M4C3400C16	32GB(8GB*4)	SS			16-18-18-36	1.35V	•	•	
CORSAIR	CMR32GX4M4C3400C16	32GB(8GB*4)	SS			16-18-18-36	1.35V	•	•	
CORSAIR	CMU32GX4M4B3400C16	32GB(8GB*4)	SS			16-18-18-36	1.35V	•	•	
CORSAIR	CMU32GX4M4C3400C16	32GB(8GB*4)	SS			16-18-18-36	1.35V	•	•	
CORSAIR	CMK32GX4M4C3400C16R	32GB(8GB*4)	SS			16-18-18-36	1.35V	•	•	
CORSAIR	CMU32GX4M4B3400C16R	32GB(8GB*4)	SS			16-18-18-36	1.35V	•	•	
CORSAIR	CMU32GX4M4C3400C16R	32GB(8GB*4)	SS			16-18-18-36	1.35V	•	•	
CORSAIR	CMK16GX4M4B3400C16	16GB(4GB*4)	SS			16-18-18-36	1.35V	•	•	
CORSAIR	CMD16GX4M4B3400C16	16GB(4GB*4)	SS			16-18-18-36	1.35V	•	•	

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	8 DIMM
G.SKILL	F4-3466C16Q-32GTZSW	32GB(8GB*4)	SS			16-18-18-38	1.35V	•	•	
G.SKILL	F4-3466C16Q-32GTZKK	32GB(8GB*4)	SS			16-18-18-38	1.35V	•	•	
G.SKILL	F4-3466C16Q-32GTZR	32GB(8GB*4)	SS			16-18-18-38	1.35V	•	•	
G.SKILL	F4-3466C16Q2-64GTZSW	64GB(8GB*8)	SS			16-18-18-38	1.35V	•	•	•
G.SKILL	F4-3466C16Q2-64GTZKK	64GB(8GB*8)	SS			16-18-18-38	1.35V	•	•	•
G.SKILL	F4-3466C16Q2-64GTZR	64GB(8GB*8)	SS			16-18-18-38	1.35V	•	•	•
G.SKILL	F4-3466C16Q-64GTZSW	64GB(16GB*4)	DS			16-18-18-38	1.35V	•	•	
G.SKILL	F4-3466C16Q-64GTZKK	64GB(16GB*4)	DS			16-18-18-38	1.35V	•	•	
G.SKILL	F4-3466C16Q-64GTZR	64GB(16GB*4)	DS			16-18-18-38	1.35V	•	•	
G.SKILL	F4-3466C16Q2-128GTZSW	128GB(16GB*8)	DS			16-18-18-38	1.35V	•	•	•
G.SKILL	F4-3466C16Q2-128GTZKK	128GB(16GB*8)	DS			16-18-18-38	1.35V	•	•	•
G.SKILL	F4-3466C16Q2-128GTZR	128GB(16GB*8)	DS			16-18-18-38	1.35V	•	•	•
CORSAIR	CMK128GX4M8B3333C16	128GB(16GB*8)	DS			16-18-18-36	1.35V	•	•	•
CORSAIR	CMK64GX4M4B3333C16	64GB(16GB*4)	DS			16-18-18-36	1.35V	•	•	
CORSAIR	CMK64GX4M8B3333C16	64GB(8GB*8)	SS			16-18-18-36	1.35V	•	•	•
CORSAIR	CMR64GX4M4C3333C16	64GB(16GB*4)	DS			16-18-18-36	1.35V	•	•	
CORSAIR	CMD64GX4M4B3333C16	64GB(16GB*4)	DS			16-18-18-36	1.35V	•	•	

CORSAIR	CMD64GX4M8B3333C16	64GB(8GB*8)	SS			16-18-18-36	1.35V	●	●	●
CORSAIR	CMK64GX4M4B3333C16R	64GB(16GB*4)	DS			16-18-18-36	1.35V	●	●	
CORSAIR	CMK32GX4M4B3333C16	32GB(8GB*4)	SS			16-18-18-36	1.35V	●	●	
CORSAIR	CMR32GX4M4C3333C16	32GB(8GB*4)	SS			16-18-18-36	1.35V	●	●	
CORSAIR	CMD32GX4M4B3333C16	32GB(8GB*4)	SS			16-18-18-36	1.35V	●	●	
CORSAIR	CMK16GX4M4B3333C16	16GB(4GB*4)	SS			16-18-18-36	1.35V	●	●	
CORSAIR	CMD16GX4M4B3333C16	16GB(4GB*4)	SS			16-18-18-36	1.35V	●	●	
CORSAIR	CMK16GX4M4B3333C16R	16GB(4GB*4)	SS			16-18-18-36	1.35V	●	●	
Kingston	HX433C16PB3K2/16	16GB(8GB*2)	SS			16-18-18-36	1.35V	●		

DDR4 3200 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	DIMM socket support (Optional)		
								2 DIMM	4 DIMM	8 DIMM
G.SKILL	F4-3200C14Q-32GTZSW	32GB(8GB*4)	SS			14-14-14-34	1.35V	●	●	
G.SKILL	F4-3200C14Q-32GTZKK	32GB(8GB*4)	SS			14-14-14-34	1.35V	●	●	
G.SKILL	F4-3200C14Q-32GTZR	32GB(8GB*4)	SS			14-14-14-34	1.35V	●	●	
G.SKILL	F4-3200C14Q2-64GTZSW	64GB(8GB*8)	SS			14-14-14-34	1.35V	●	●	●
G.SKILL	F4-3200C14Q2-64GTZKK	64GB(8GB*8)	SS			14-14-14-34	1.35V	●	●	●
G.SKILL	F4-3200C14Q2-64GTZR	64GB(8GB*8)	SS			14-14-14-34	1.35V	●	●	●
G.SKILL	F4-3200C14Q-64GTZSW	64GB(16GB*4)	DS			14-14-14-34	1.35V	●	●	
G.SKILL	F4-3200C14Q-64GTZKK	64GB(16GB*4)	DS			14-14-14-34	1.35V	●	●	
G.SKILL	F4-3200C14Q-64GTZR	64GB(16GB*4)	DS			14-14-14-34	1.35V	●	●	
G.SKILL	F4-3200C14Q2-128GTZSW	128GB(16GB*8)	DS			14-14-14-34	1.35V	●	●	●
G.SKILL	F4-3200C14Q2-128GTZKK	128GB(16GB*8)	DS			14-14-14-34	1.35V	●	●	●
G.SKILL	F4-3200C14Q2-128GTZR	128GB(16GB*8)	DS			14-14-14-34	1.35V	●	●	●
G.SKILL	F4-3200C15Q-32GTZSW	32GB(8GB*4)	SS			15-15-15-35	1.35V	●	●	
G.SKILL	F4-3200C15Q-32GTZKK	32GB(8GB*4)	SS			15-15-15-35	1.35V	●	●	
G.SKILL	F4-3200C15Q-32GTZR	32GB(8GB*4)	SS			15-15-15-35	1.35V	●	●	
G.SKILL	F4-3200C15Q2-64GTZSW	64GB(8GB*8)	SS			15-15-15-35	1.35V	●	●	●
G.SKILL	F4-3200C15Q2-64GTZKK	64GB(8GB*8)	SS			15-15-15-35	1.35V	●	●	●
G.SKILL	F4-3200C15Q2-64GTZR	64GB(8GB*8)	SS			15-15-15-35	1.35V	●	●	●
G.SKILL	F4-3200C15Q-64GTZSW	64GB(16GB*4)	DS			15-15-15-35	1.35V	●	●	
G.SKILL	F4-3200C15Q-64GTZKK	64GB(16GB*4)	DS			15-15-15-35	1.35V	●	●	
G.SKILL	F4-3200C15Q-64GTZR	64GB(16GB*4)	DS			15-15-15-35	1.35V	●	●	
G.SKILL	F4-3200C15Q2-128GTZSW	128GB(16GB*8)	DS			15-15-15-35	1.35V	●	●	●
G.SKILL	F4-3200C15Q2-128GTZKK	128GB(16GB*8)	DS			15-15-15-35	1.35V	●	●	●

G.SKILL	F4-3200C15Q2-128GTZR	128GB(16GB*8)	DS	15-15-15-35	1.35V	●	●	●
CORSAIR	CMK128GX4M8B3200C16	128GB(16GB*8)	DS	16-18-18-36	1.35V	●	●	●
CORSAIR	CMD128GX4M8B3200C16	128GB(16GB*8)	DS	16-18-18-36	1.35V	●	●	●
CORSAIR	CMK64GX4M4B3200C16	64GB(16GB*4)	DS	16-18-18-36	1.35V	●	●	
CORSAIR	CMK64GX4M4C3200C16	64GB(16GB*4)	DS	16-18-18-36	1.35V	●	●	
CORSAIR	CMK64GX4M8B3200C16	64GB(8GB*8)	SS	16-18-18-36	1.35V	●	●	●
CORSAIR	CMR64GX4M4C3200C16	64GB(16GB*4)	DS	16-18-18-36	1.35V	●	●	
CORSAIR	CMD64GX4M4B3200C16	64GB(16GB*4)	DS	16-18-18-36	1.35V	●	●	
CORSAIR	CMD64GX4M4C3200C16	64GB(16GB*4)	DS	16-18-18-36	1.35V	●	●	
CORSAIR	CMD64GX4M8B3200C16	64GB(8GB*8)	SS	16-18-18-36	1.35V	●	●	●
CORSAIR	CMU64GX4M4C3200C16	64GB(16GB*4)	DS	16-18-18-36	1.35V	●	●	
CORSAIR	CMU64GX4M4C3200C16B	64GB(16GB*4)	DS	16-18-18-36	1.35V	●	●	
CORSAIR	CMK64GX4M4B3200C16R	64GB(16GB*4)	DS	16-18-18-36	1.35V	●	●	
CORSAIR	CMU64GX4M4C3200C16R	64GB(16GB*4)	DS	16-18-18-36	1.35V	●	●	
CORSAIR	CMD32GX4M4C3200C14M	32GB(8GB*4)	SS	14-16-16-36	1.35V	●	●	
CORSAIR	CMK32GX4M4B3200C14R	32GB(8GB*4)	SS	14-16-16-36	1.35V	●	●	
CORSAIR	CMK32GX4M4B3200C15	32GB(8GB*4)	SS	15-17-17-35	1.35V	●	●	
CORSAIR	CMD32GX4M4B3200C15	32GB(8GB*4)	SS	15-17-17-36	1.35V	●	●	
CORSAIR	CMK32GX4M4B3200C16	32GB(8GB*4)	SS	16-18-18-36	1.35V	●	●	
CORSAIR	CMK32GX4M4D3200C16	32GB(8GB*4)	SS	16-18-18-36	1.35V	●	●	
CORSAIR	CMK32GX4M4E3200C16	32GB(8GB*4)	SS	16-18-18-36	1.35V	●	●	
CORSAIR	CMR32GX4M4C3200C16	32GB(8GB*4)	SS	16-18-18-36	1.35V	●	●	
CORSAIR	CMR32GX4M4D3200C16	32GB(8GB*4)	SS	16-18-18-36	1.35V	●	●	
CORSAIR	CMD32GX4M4B3200C16	32GB(8GB*4)	SS	16-18-18-36	1.35V	●	●	
CORSAIR	CMU32GX4M4C3200C16	32GB(8GB*4)	SS	16-18-18-36	1.35V	●	●	
CORSAIR	CMU32GX4M4C3200C16B	32GB(8GB*4)	SS	16-18-18-36	1.35V	●	●	
CORSAIR	CMU32GX4M4C3200C16R	32GB(8GB*4)	SS	16-18-18-36	1.35V	●	●	
CORSAIR	CMK32GX4M4C3200C16S	32GB(8GB*4)	SS	16-18-18-36	1.35V	●	●	
CORSAIR	CMK32GX4M4B3200C16W	32GB(8GB*4)	SS	16-18-18-36	1.35V	●	●	
CORSAIR	CMK16GX4M4B3200C14	16GB(4GB*4)	SS	14-16-16-36	1.35V	●	●	
CORSAIR	CMK16GX4M4C3200C14	16GB(4GB*4)	SS	14-16-16-36	1.35V	●	●	
CORSAIR	CMD16GX4M4B3200C14	16GB(4GB*4)	SS	14-16-16-36	1.35V	●	●	
CORSAIR	CMK16GX4M4B3200C15	16GB(4GB*4)	SS	15-17-17-35	1.35V	●	●	
CORSAIR	CMK16GX4M4C3200C15	16GB(4GB*4)	SS	15-17-17-35	1.35V	●	●	
CORSAIR	CMD16GX4M4B3200C15	16GB(4GB*4)	SS	15-17-17-35	1.35V	●	●	
CORSAIR	CMD16GX4M4C3200C15	16GB(4GB*4)	SS	15-17-17-35	1.35V	●	●	

CORSAIR	CMK16GX4M4B3200C15R	16GB(4GB*4)	SS	15-17-17-35	1.35V	●	●	
CORSAIR	CMK16GX4M4B3200C16	16GB(4GB*4)	SS	16-18-18-36	1.35V	●	●	
CORSAIR	CMK16GX4M4C3200C16	16GB(4GB*4)	SS	16-18-18-36	1.35V	●	●	
CORSAIR	CMD16GX4M4B3200C16	16GB(4GB*4)	SS	16-18-18-36	1.35V	●	●	
CORSAIR	CMD16GX4M4C3200C16	16GB(4GB*4)	SS	16-18-18-36	1.35V	●	●	
CORSAIR	CMK16GX4M4B3200C16R	16GB(4GB*4)	SS	16-18-18-36	1.35V	●	●	
CORSAIR	CMK16GX4M4C3200C16R	16GB(4GB*4)	SS	16-18-18-36	1.35V	●	●	
CORSAIR	CMD16GX4M4B3200C16R	16GB(4GB*4)	SS	16-18-18-36	1.35V	●	●	
Kingston	HX432C16PB3K4/16	16GB(4GB*4)	SS	16-18-18-36	1.35V	●	●	
Kingston	HX432C16PB3K4/32	32GB(8GB*4)	SS	16-18-18-36	1.35V	●	●	
NEO FORZA	NFMUD480E8-3200DH2A	64GB(8GB*8)	SS	16-18-18-36	1.35V	●	●	●
NEO FORZA	NFMUD416E8-3200DH2A	128GB(16GB*8)	DS	16-18-18-36	1.35V	●	●	●
SUPER TALENT	F3200UA4G	32GB(4GB*8)	SS	17-19-19-39	1.35V	●	●	●
SUPER TALENT	F3200UB16G	128GB(16GB*8)	DS	16-18-18-36	1.35V	●	●	●

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	8 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	F4-3000C14Q2-128GVVD	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-8GVVB	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	GW416GB3000C15DC(XMP)	16GB (2x 8GB)	DS	GeIL	CG4L512G8 8BA093L	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	-	K4A4G085W SBCPB	16-18-18-38	1.35	●	
Team	TLRED432G3000HC16CQC01	32GB(8GB*4)	DS	-	K4A4G085W SBCPB	16-18-18-38	1.35	●	●
Team	TLGD432G3000HC16CQC01	32GB(8GB*4)	DS	-	K4A4G085W SBCPB	16-18-18-38	1.35	●	●

Team	TDRED432G3000HC16CQC01	32GB(8GB*4)	DS	-	K4A4G085W SBCPB	16-18-18-38	1.35	●	●
Team	TDGED432G3000HC16CQC01	32GB(8GB*4)	DS	-	K4A4G085W SBCPB	16-18-18-38	1.35	●	●
Team	TDPRD432G3000HC16CQC01	32GB(8GB*4)	DS	-	K4A4G085W SBCPB	16-18-18-38	1.35	●	●
Team	TDPGD432G3000HC16CQC01	32GB(8GB*4)	DS	-	K4A4G085W SBCPB	16-18-18-38	1.35	●	●
Team	THRD432G3000HC16CQC01	32GB(8GB*4)	DS	-	K4A4G085W SBCPB	16-18-18-38	1.35	●	●
Team	THWD432G3000HC16CQC01	32GB(8GB*4)	DS	-	K4A4G085W SBCPB	16-18-18-38	1.35	●	●
Team	THBD432G3000HC16CQC01	32GB(8GB*4)	DS	-	K4A4G085W SBCPB	16-18-18-38	1.35	●	●
Team	TDTRD432G3000HC16CQC01	32GB(8GB*4)	DS	-	K4A4G085W SBCPB	16-18-18-38	1.35	●	●
Team	TDTWD432G3000HC16CQC01	32GB(8GB*4)	DS	-	K4A4G085W SBCPB	16-18-18-38	1.35	●	●
Team	TDTBD432G3000HC16CQC01	32GB(8GB*4)	DS	-	K4A4G085W SBCPB	16-18-18-38	1.35	●	●
Team	TLRED416G3000HC16CDC01	16GB(8GB*2)	DS	-	K4A4G085W SBCPB	16-18-18-38	1.35	●	
Team	TLGD416G3000HC16CDC01	16GB(8GB*2)	DS	-	K4A4G085W SBCPB	16-18-18-38	1.35	●	
Team	TDRED416G3000HC16CDC01	16GB(8GB*2)	DS	-	K4A4G085W SBCPB	16-18-18-38	1.35	●	
Team	TDGED416G3000HC16CDC01	16GB(8GB*2)	DS	-	K4A4G085W SBCPB	16-18-18-38	1.35	●	
Team	TDPRD416G3000HC16CDC01	16GB(8GB*2)	DS	-	K4A4G085W SBCPB	16-18-18-38	1.35	●	
Team	TDPGD416G3000HC16CDC01	16GB(8GB*2)	DS	-	K4A4G085W SBCPB	16-18-18-38	1.35	●	
Team	THRD416G3000HC16CDC01	16GB(8GB*2)	DS	-	K4A4G085W SBCPB	16-18-18-38	1.35	●	
Team	THWD416G3000HC16CDC01	16GB(8GB*2)	DS	-	K4A4G085W SBCPB	16-18-18-38	1.35	●	
Team	THBD416G3000HC16CDC01	16GB(8GB*2)	DS	-	K4A4G085W SBCPB	16-18-18-38	1.35	●	

Team	TDTRD416G3000HC16CDC01	16GB(8GB*2)	DS	-	K4A4G085W SBCPB	16-18-18-38	1.35	●	
Team	TDTWD416G3000HC16CDC01	16GB(8GB*2)	DS	-	K4A4G085W SBCPB	16-18-18-38	1.35	●	
Team	TDTBD416G3000HC16CDC01	16GB(8GB*2)	DS	-	K4A4G085W SBCPB	16-18-18-38	1.35	●	
Team	TFWD416G3000C16CBK(XMP)	16GB	DS	Team	T4D10248H T-30	16-18-18-38	1.35	●	●
Team	TDPRD464G3000HC16CQC01	64GB(16GB*4)	DS	Team	T4D10248H T-30	16-18-18-38	1.35	●	●
Team	TDPGD464G3000HC16CQC01	64GB(16GB*4)	DS	Team	T4D10248H T-30	16-18-18-38	1.35	●	●
Team	THRD464G3000HC16CQC01	64GB(16GB*4)	DS	Team	T4D10248H T-30	16-18-18-38	1.35	●	●
Team	THWD464G3000HC16CQC01	64GB(16GB*4)	DS	Team	T4D10248H T-30	16-18-18-38	1.35	●	●
Team	THBD464G3000HC16CQC01	64GB(16GB*4)	DS	Team	T4D10248H T-30	16-18-18-38	1.35	●	●
Team	TDTRD464G3000HC16CQC01	64GB(16GB*4)	DS	Team	T4D10248H T-30	16-18-18-38	1.35	●	●
Team	TDTWD464G3000HC16CQC01	64GB(16GB*4)	DS	Team	T4D10248H T-30	16-18-18-38	1.35	●	●
Team	TDTBD464G3000HC16CQC01	64GB(16GB*4)	DS	Team	T4D10248H T-30	16-18-18-38	1.35	●	●
Team	TDPRD432G3000HC16CDC01	32GB(16GB*2)	DS	Team	T4D10248H T-30	16-18-18-38	1.35	●	
Team	TDPGD432G3000HC16CDC01	32GB(16GB*2)	DS	Team	T4D10248H T-30	16-18-18-38	1.35	●	
Team	THRD432G3000HC16CDC01	32GB(16GB*2)	DS	Team	T4D10248H T-30	16-18-18-38	1.35	●	
Team	THWD432G3000HC16CDC01	32GB(16GB*2)	DS	Team	T4D10248H T-30	16-18-18-38	1.35	●	
Team	THBD432G3000HC16CDC01	32GB(16GB*2)	DS	Team	T4D10248H T-30	16-18-18-38	1.35	●	
Team	TDTRD432G3000HC16CDC01	32GB(16GB*2)	DS	Team	T4D10248H T-30	16-18-18-38	1.35	●	
Team	TDTWD432G3000HC16CDC01	32GB(16GB*2)	DS	Team	T4D10248H T-30	16-18-18-38	1.35	●	

Team	TDTBD432G3000HC16CDC01	32GB(16GB*2)	DS	Team	T4D10248H T-30	16-18-18-38	1.35	•
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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	8 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	-	K4A4G085W SBCPB	16-18-18-38	1.2	•
Team	TLRED432G2800HC16CQC01	32GB(8GB*4)	DS	-	K4A4G085W SBCPB	16-18-18-38	1.2	•
Team	TLGD432G2800HC16CQC01	32GB(8GB*4)	DS	-	K4A4G085W SBCPB	16-18-18-38	1.2	•
Team	TDRED432G2800HC16CQC01	32GB(8GB*4)	DS	-	K4A4G085W SBCPB	16-18-18-38	1.2	•
Team	TDGED432G2800HC16CQC01	32GB(8GB*4)	DS	-	K4A4G085W SBCPB	16-18-18-38	1.2	•

Team	THRD432G2800HC16CQC01	32GB(8GB*4)	DS	-	K4A4G085W SBCPB	16-18-18-38	1.2	•
Team	THWD432G2800HC16CQC01	32GB(8GB*4)	DS	-	K4A4G085W SBCPB	16-18-18-38	1.2	•
Team	THBD432G2800HC16CQC01	32GB(8GB*4)	DS	-	K4A4G085W SBCPB	16-18-18-38	1.2	•
Team	TLRED416G2800HC16CDC01	16GB(8GB*2)	DS	-	K4A4G085W SBCPB	16-18-18-38	1.2	•
Team	TLGD416G2800HC16CDC01	16GB(8GB*2)	DS	-	K4A4G085W SBCPB	16-18-18-38	1.2	•
Team	TDRED416G2800HC16CDC01	16GB(8GB*2)	DS	-	K4A4G085W SBCPB	16-18-18-38	1.2	•
Team	TDGED416G2800HC16CDC01	16GB(8GB*2)	DS	-	K4A4G085W SBCPB	16-18-18-38	1.2	•
Team	THRD416G2800HC16CDC01	16GB(8GB*2)	DS	-	K4A4G085W SBCPB	16-18-18-38	1.2	•
Team	THWD416G2800HC16CDC01	16GB(8GB*2)	DS	-	K4A4G085W SBCPB	16-18-18-38	1.2	•
Team	THBD416G2800HC16CDC01	16GB(8GB*2)	DS	-	K4A4G085W SBCPB	16-18-18-38	1.2	•

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	8 DIMM
ADATA	AX4U266638G16-DRZ(XMP)	16GB (2x 8GB)	SS	-	-	16-16-16-39	1.2	•		
ADATA	AX4U2666W4G16-BRZ(XMP)	4GB	SS	-	-	16-16-16-39	1.2	•	•	
ADATA	AX4U2666W8G16-QRZ(XMP)	32GB (4x 8GB)	DS	-	-	16-16-16-39	1.2	•	•	
CORSAIR	CMD128GX4M8A2666C15(Ver4.31)(XMP)	128GB (8x 16GB)	DS	-	-	15-17-17-35	1.2	•	•	•
CORSAIR	CMD16GX4M2A2666C15(Ver4.23)(XMP)	16GB (2x 8GB)	DS	-	-	15-17-17-35	1.2	•	•	
CORSAIR	CMD16GX4M4A2666C15(Ver4.23)(XMP)	16GB (4x 4GB)	SS	-	-	15-17-17-35	1.2	•	•	
CORSAIR	CMD16GX4M4A2666C16(Ver4.23)(XMP)	16GB (4x 4GB)	SS	-	-	16-18-18-35	1.2	•	•	
CORSAIR	CMD16GX4M4A2666C16(Ver5.29)(XMP)	16GB (4x 4GB)	SS	-	-	16-18-18-35	1.2	•	•	

CORSAIR	CMD32GX4M4A2666C15(Ver4.23)(XMP)	32GB (4x 8GB)	DS	-	-	15-17-17-35	1.2	•	•	
CORSAIR	CMD32GX4M4A2666C15(Ver5.29)(XMP)	32GB (4x 8GB)	DS	-	-	15-17-17-35	1.2	•	•	
CORSAIR	CMD32GX4M4A2666C16(Ver4.23)(XMP)	32GB (4x 8GB)	DS	-	-	16-18-18-35	1.2	•	•	
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	BLE4G4D26AFEA.8FAD (XMP)	4GB	SS	-	-	16-17-17-36	1.2	●	●
crucial	BLE8G4D26AFEA.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	•	•

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	8 DIMM
ADATA	AD4U2400W4G17-B	4GB	SS	SK Hynix	H5AN4G8N AFRTFC	15-15-15-35	1.2	•	•	
ADATA	AD4U2400W8G17-B	8GB	DS	SK Hynix	H5AN4G8N AFRTFC	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	K4A4G085W D	17-17-17-39	-	•		
Apacer	78.C1GMS.4010B	32GB (4x 8GB)	DS	Samsung	K4A4G085W D	17-17-17-39	-	•	•	
Apacer	EL.08G2T.GFM	8GB	SS	Apacer	AM6F6308M HHSB2	17-17-17-39	-	•	•	
Apacer	AU08GGB24CEYBGC (EL.08G2T.GFM)	8GB	SS	Apacer	AM6F6308M HHSB2	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)(X MP)	16GB (4x 4GB)	SS	-	-	14-16-16-31	1.2	•	•	
CORSAIR	CMD32GX4M4A2400C14(Ver4.23)(X MP)	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	●	●
Foxteonn	FEU8GN51208KC2400H	8GB	DS	Nanya	NT5AD512M8B1-FM	17-17-17-39	-	●	●
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	F4-2400C15Q2-128GVK(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	NT5AD512M 8B1-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	NT5AD512M 8B1-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	-	-	15-15-5-35	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	-	-	15-15-5-35	1.2	●	
Hyper X	HX424C15FBK4/16	16GB (4x 4GB)	SS	-	-	15-15-5-35	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	●	
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	IM44GU48N24-FFFHAZ(XMP)	4GB	SS	-	-	15-15-15-35	1.2	•	•
Klevv	IM48GU88N24-FFFHMB(XMP)	8GB	SS	-	-	15-15-15-35	1.2	•	•
Klevv	IM48GU88N24-FFFHMZ(XMP)	8GB	SS	-	-	15-15-15-35	1.2	•	•
Klevv	IM4AGU88N24-FFFHMB(XMP)	16GB	DS	-	-	15-15-15-35	1.2	•	•
Klevv	IM4AGU88N24-FFFHMZ(XMP)	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	DTCCH912 G2	14-14-14-31	-	•	•
PATRIOT	PSD416G24002	16GB	DS	Samsung	K4A8G085W B	17-17-17-39	1.2	•	•
PATRIOT	PSD44G240081	4GB	SS	Samsung	K4A4G085W E	16-16-16-39	1.2	•	•
PATRIOT	PSD44G240081	4GB	SS	PATRIOT	PM5128D4B U-083	16-16-16-39	1.2	•	
PATRIOT	PSD48G240081	8GB	SS	Samsung	K4A8G085W B	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	H5AN8GBN AFRUHC	17-17-17-39	-	•	•
SK Hynix	HMA82GU6AFR8N-UH	16GB	DS	SK Hynix	H5AN8GBN AFRUHC	17-17-17-39	-	•	•
Team	TCD44G2400C14BK(XMP)	4GB	SS	SK Hynix	H5AN4GBN AFRTFC	14-16-16-31	1.2	•	
Team	TLRED416G2400HC14QC01	16GB(4GB*4)	SS	SK Hynix	H5AN4GBN AFRTFC	14-16-16-31	1.2	•	
Team	TLGD416G2400HC14QC01	16GB(4GB*4)	SS	SK Hynix	H5AN4GBN AFRTFC	14-16-16-31	1.2	•	
Team	TDRED416G2400HC14QC01	16GB(4GB*4)	SS	SK Hynix	H5AN4GBN AFRTFC	14-16-16-31	1.2	•	
Team	TDGED416G2400HC14QC01	16GB(4GB*4)	SS	SK Hynix	H5AN4GBN AFRTFC	14-16-16-31	1.2	•	
Team	TLRED48G2400HC14DC01	8GB(4GB*2)	SS	SK Hynix	H5AN4GBN AFRTFC	14-16-16-31	1.2	•	

Team	TLGD48G2400HC14DC01	8GB(4GB*2)	SS	SK Hynix	H5AN4GBN AFRTFC	14-16-16-31	1.2	•
Team	TDRED48G2400HC14DC01	8GB(4GB*2)	SS	SK Hynix	H5AN4GBN AFRTFC	14-16-16-31	1.2	•
Team	TDGED48G2400HC14DC01	8GB(4GB*2)	SS	SK Hynix	H5AN4GBN AFRTFC	14-16-16-31	1.2	•
Team	TLRED44G2400HC1401	4GB	SS	SK Hynix	H5AN4GBN AFRTFC	14-16-16-31	1.2	•
Team	TLGD44G2400HC1401	4GB	SS	SK Hynix	H5AN4GBN AFRTFC	14-16-16-31	1.2	•
Team	TDRED44G2400HC1401	4GB	SS	SK Hynix	H5AN4GBN AFRTFC	14-16-16-31	1.2	•
Team	TDGED44G2400HC1401	4GB	SS	SK Hynix	H5AN4GBN AFRTFC	14-16-16-31	1.2	•
Team	TCD48G2400C14BK(XMP)	8GB	DS	Team	T4D1024BM T-24	14-16-16-31	1.2	•
Team	TLRED432G2400HC14QC01	32GB(8GB*4)	DS	Team	T4D1024BM T-24	14-16-16-31	1.2	•
Team	TLGD432G2400HC14QC01	32GB(8GB*4)	DS	Team	T4D1024BM T-24	14-16-16-31	1.2	•
Team	TDRED432G2400HC14QC01	32GB(8GB*4)	DS	Team	T4D1024BM T-24	14-16-16-31	1.2	•
Team	TDGED432G2400HC14QC01	32GB(8GB*4)	DS	Team	T4D1024BM T-24	14-16-16-31	1.2	•
Team	TLRED416G2400HC14DC01	16GB(8GB*2)	DS	Team	T4D1024BM T-24	14-16-16-31	1.2	•
Team	TLGD416G2400HC14DC01	16GB(8GB*2)	DS	Team	T4D1024BM T-24	14-16-16-31	1.2	•
Team	TDRED416G2400HC14DC01	16GB(8GB*2)	DS	Team	T4D1024BM T-24	14-16-16-31	1.2	•
Team	TDGED416G2400HC14DC01	16GB(8GB*2)	DS	Team	T4D1024BM T-24	14-16-16-31	1.2	•
Team	TLRED48G2400HC1401	8GB	DS	Team	T4D1024BM T-24	14-16-16-31	1.2	•
Team	TLGD48G2400HC1401	8GB	DS	Team	T4D1024BM T-24	14-16-16-31	1.2	•
Team	TDRED48G2400HC1401	8GB	DS	Team	T4D1024BM T-24	14-16-16-31	1.2	•

Team	TDGED48G2400HC1401	8GB	DS	Team	T4D1024BM T-24	14-16-16-31	1.2	•	
Team	TED416G2400C16BK	16GB	DS	Team	T4D10248M T-24	16-16-16-39	1.2	•	•
Team	TED464G2400C16QC01	64GB(16GB*4)	DS	Team	T4D10248M T-24	16-16-16-39	1.2	•	•
Team	TPRD464G2400HC16QC01	64GB(16GB*4)	DS	Team	T4D10248M T-24	16-16-16-39	1.2	•	•
Team	TPD464G2400HC16QC01	64GB(16GB*4)	DS	Team	T4D10248M T-24	16-16-16-39	1.2	•	•
Team	TED432G2400C16DC01	32GB(16GB*2)	DS	Team	T4D10248M T-24	16-16-16-39	1.2	•	•
Team	TPRD432G2400HC16DC01	32GB(16GB*2)	DS	Team	T4D10248M T-24	16-16-16-39	1.2	•	•
Team	TPD432G2400HC16DC01	32GB(16GB*2)	DS	Team	T4D10248M T-24	16-16-16-39	1.2	•	•
Team	TED416G2400C1601	16GB	DS	Team	T4D10248M T-24	16-16-16-39	1.2	•	•
Team	TPRD416G2400HC1601	16GB	DS	Team	T4D10248M T-24	16-16-16-39	1.2	•	•
Team	TPD416G2400HC1601	16GB	DS	Team	T4D10248M T-24	16-16-16-39	1.2	•	•
Team	TED48G2400C16BK	8GB	DS	Team	T4D5128HT- 24	16-16-16-39	1.2	•	•
Team	TED432G2400C16QC01	32GB(8GB*4)	DS	Team	T4D5128HT- 24	16-16-16-39	1.2	•	•
Team	TPRD432G2400HC16QC01	32GB(8GB*4)	DS	Team	T4D5128HT- 24	16-16-16-39	1.2	•	•
Team	TPD432G2400HC16QC01	32GB(8GB*4)	DS	Team	T4D5128HT- 24	16-16-16-39	1.2	•	•
Team	TED416G2400C16DC01	16GB(8GB*2)	DS	Team	T4D5128HT- 24	16-16-16-39	1.2	•	•
Team	TPRD416G2400HC16DC01	16GB(8GB*2)	DS	Team	T4D5128HT- 24	16-16-16-39	1.2	•	•
Team	TPD416G2400HC16DC01	16GB(8GB*2)	DS	Team	T4D5128HT- 24	16-16-16-39	1.2	•	•
Team	TED48G2400C1601	8GB	DS	Team	T4D5128HT- 24	16-16-16-39	1.2	•	•

Team	TPRD48G2400HC1601	8GB	DS	Team	T4D5128HT-24	16-16-16-39	1.2	•	•
Team	TPD48G2400HC1601	8GB	DS	Team	T4D5128HT-24	16-16-16-39	1.2	•	•
Team	TFRD44G2400C15ABK	4GB	SS	Team	T4D5128HT-24	15-15-15-35	1.2	•	•
Team	TDTRD416G2400HC15AQC01	16GB(4GB*4)	SS	Team	T4D5128HT-24	15-15-15-35	1.2	•	•
Team	TDTWD416G2400HC15AQC01	16GB(4GB*4)	SS	Team	T4D5128HT-24	15-15-15-35	1.2	•	•
Team	TDTBD416G2400HC15AQC01	16GB(4GB*4)	SS	Team	T4D5128HT-24	15-15-15-35	1.2	•	•
Team	TDTRD48G2400HC15ADC01	8GB(4GB*2)	SS	Team	T4D5128HT-24	15-15-15-35	1.2	•	•
Team	TDTWD48G2400HC15ADC01	8GB(4GB*2)	SS	Team	T4D5128HT-24	15-15-15-35	1.2	•	•
Team	TDTBD48G2400HC15ADC01	8GB(4GB*2)	SS	Team	T4D5128HT-24	15-15-15-35	1.2	•	•
Team	TDTRD44G2400HC15A01	4GB	SS	Team	T4D5128HT-24	15-15-15-35	1.2	•	•
Team	TDTWD44G2400HC15A01	4GB	SS	Team	T4D5128HT-24	15-15-15-35	1.2	•	•
Team	TDTBD44G2400HC15A01	4GB	SS	Team	T4D5128HT-24	15-15-15-35	1.2	•	•
Team	TFRD48G2400C15ABK	8GB	SS	Team	T4D10248HT-24	15-15-15-35	1.2	•	•
Team	TDTRD432G2400HC15AQC01	32GB(8GB*4)	SS	Team	T4D10248HT-24	15-15-15-35	1.2	•	•
Team	TDTWD432G2400HC15AQC01	32GB(8GB*4)	SS	Team	T4D10248HT-24	15-15-15-35	1.2	•	•
Team	TDTBD432G2400HC15AQC01	32GB(8GB*4)	SS	Team	T4D10248HT-24	15-15-15-35	1.2	•	•
Team	TDTRD416G2400HC15ADC01	16GB(8GB*2)	SS	Team	T4D10248HT-24	15-15-15-35	1.2	•	•
Team	TDTWD416G2400HC15ADC01	16GB(8GB*2)	SS	Team	T4D10248HT-24	15-15-15-35	1.2	•	•
Team	TDTBD416G2400HC15ADC01	16GB(8GB*2)	SS	Team	T4D10248HT-24	15-15-15-35	1.2	•	•

Team	TDTRD48G2400HC15A01	8GB	SS	Team	T4D10248H T-24	15-15-15-35	1.2	•	•
Team	TDTWD48G2400HC15A01	8GB	SS	Team	T4D10248H T-24	15-15-15-35	1.2	•	•
Team	TDTBD48G2400HC15A01	8GB	SS	Team	T4D10248H T-24	15-15-15-35	1.2	•	•
Team	TFWD416G2400C15BBK(XMP)	16GB	DS	Team	PP020-093E	15-17-17-35	1.2	•	
Team	TDTRD464G2400HC15BQC01	64GB(16GB*4)	DS	Team	PP020-093E	15-17-17-35	1.2	•	
Team	TDTWD464G2400HC15BQC01	64GB(16GB*4)	DS	Team	PP020-093E	15-17-17-35	1.2	•	
Team	TDTBD464G2400HC15BQC01	64GB(16GB*4)	DS	Team	PP020-093E	15-17-17-35	1.2	•	
Team	TDTRD432G2400HC15BDC01	32GB(16GB*2)	DS	Team	PP020-093E	15-17-17-35	1.2	•	
Team	TDTWD432G2400HC15BDC01	32GB(16GB*2)	DS	Team	PP020-093E	15-17-17-35	1.2	•	
Team	TDTBD432G2400HC15BDC01	32GB(16GB*2)	DS	Team	PP020-093E	15-17-17-35	1.2	•	
Team	TDTRD416G2400HC15B01	16GB	DS	Team	PP020-093E	15-17-17-35	1.2	•	
Team	TDTWD416G2400HC15B01	16GB	DS	Team	PP020-093E	15-17-17-35	1.2	•	
Team	TDTBD416G2400HC15B01	16GB	DS	Team	PP020-093E	15-17-17-35	1.2	•	
V-color	TC48G24S817-IMS	8GB	SS	-	-	17-17-17-39	1.2	•	•
V-color	TD4G8C17-UH	4GB	SS	V-color	DW3J0460H M	15-15-15-36	1.2	•	•
V-color	TD8G16C17-UH	8GB	DS	V-color	A4G8H- 24CS	17-17-17-39	1.2	•	•

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	8 DIMM
Apacer	78.B1GM3.AF00B	16GB (4x 4GB)	SS	SK Hynix	H5AN4G8N MFRFC	15-15-15-36	1.2	•	•	

Apacer	78.C1GM3.AF10B	32GB (4x 8GB)	DS	SK Hynix	H5AN4G8N MFRTFC	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	H5AN4G8N MFRTFC	15-15-15-36	-	●	●
CENTURY MICRO INC	CK8GX4-D4U2133	32GB (4x 8GB)	DS	SK hynix	H5AN4G8N MFRTFC	15-15-15-35	1.2	●	●
CORSAIR	CMD16GX4M4B2133C10(Ver3.20)(X MP)	16GB (4x 4GB)	SS	-	-	10-12-12-31	1.35	●	●
CORSAIR	CMD16GX4M4B2133C10(Ver3.20)(X MP)	16GB (4x 4GB)	SS	-	-	10-12-12-31	1.35	●	
CORSAIR	CMK16GX4M4A2133C13(Ver4.23)(X MP)	16GB (4x 4GB)	SS	-	-	13-15-15-28	1.2	●	●
CORSAIR	CMK32GX4M2A2133C13(Ver4.31)(X MP)	32GB (2x 16GB)	DS	-	-	13-15-15-28	1.2	●	
CORSAIR	CMK32GX4M4A2133C13(Ver4.23)(X MP)	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)(X MP)	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	●	●
Foxteonn	FEU4GN51208JC2133F	4GB	SS	Nanya	NT5AD512M 8B1-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	HX421C14FB2K4/32(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	H5AN4G8N AFR	15-15-15-36	1.2	•	•	
Kingston	KVR21N15D8/8	8GB	DS	SK hynix	H5AN4G8N MFRTFC	15-15-15-37	1.2	•	•	
Kingston	KVR21N15S8/4	4GB	SS	SK Hynix	H5AN4G8N AFR	15-15-15-36	1.2	•	•	
Kingston	KVR21N15S8/4	4GB	SS	SK Hynix	H5AN4G8N AFRTFC	15-15-15-36	1.2	•	•	
Kingston	KVR21N15S8/4	4GB	SS	SK Hynix	H5AN4G8N MFRTFC	15-15-15-37	1.2	•	•	
Klevv	IM44GU48N21-FFFHAB(XMP)	4GB	SS	-	-	15-15-15-35	1.2	•	•	
Klevv	IM48GU88N21-FFFHMB(XMP)	8GB	SS	-	-	15-15-15-35	1.2	•	•	
Klevv	IM4AGU88N21-FFFHMB(XMP)	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	DTCCH872 HA2	16-16-16-36	-	•	•	•
SanMax	SMD-4G28HP-21P	4GB	SS	SK Hynix	H5AN4G8N MFRTFC	15-15-15-37	-	•	•	
SanMax	SMD-8G28HP-21P	8GB	DS	SK Hynix	H5AN4G8N MFRTFC	15-15-15-37	-	•	•	•
Silicon Power	SP004GBLFU213N01	4GB	SS	Samsung	K4A4G085W D	15-15-15-37	-	•	•	
Silicon Power	SP008GBLFU213N01	8GB	DS	Samsung	K4A4G085W D	15-15-15-37	-	•	•	•
SK Hynix	HMA41GU7AFR8N-TF	8GB	DS	SK Hynix	H5AN4G8N AFRTFC	15-15-15-36	-	•	•	
SK Hynix	HMA451U7AFR8N-TF	4GB	SS	SK Hynix	H5AN4G8N AFR	15-15-15-36	-	•	•	
SK Hynix	HMA82GU6MFR8N-TF	16GB	DS	SK Hynix	H5AN8G8N MFRTFC	15-15-15-36	-	•	•	•

SK Hynix	HMA82GU7MFR8N-TF	16GB	DS	SK Hynix	H5AN8G8N MFR	15-15-15-36	-	•	•	
SUPER TALENT	FBU2B008GM	8GB	DS	Micron	D9RGQ	15-15-15-36	1.2	•	•	•
Team	TED416G2133C15BK	16GB	DS	Team	T4D10248M T-24	15-15-15-36	1.2	•	•	
Team	TED464G2133C15QC01	64GB(16GB*4)	DS	Team	T4D10248M T-24	15-15-15-36	1.2	•	•	
Team	TPRD464G2133HC15QC01	64GB(16GB*4)	DS	Team	T4D10248M T-24	15-15-15-36	1.2	•	•	
Team	TPD464G2133HC15QC01	64GB(16GB*4)	DS	Team	T4D10248M T-24	15-15-15-36	1.2	•	•	
Team	TED432G2133C15DC01	32GB(16GB*2)	DS	Team	T4D10248M T-24	15-15-15-36	1.2	•	•	
Team	TPRD432G2133HC15DC01	32GB(16GB*2)	DS	Team	T4D10248M T-24	15-15-15-36	1.2	•	•	
Team	TPD432G2133HC15DC01	32GB(16GB*2)	DS	Team	T4D10248M T-24	15-15-15-36	1.2	•	•	
Team	TED416G2133C1501	16GB	DS	Team	T4D10248M T-24	15-15-15-36	1.2	•	•	
Team	TPRD416G2133HC1501	16GB	DS	Team	T4D10248M T-24	15-15-15-36	1.2	•	•	
Team	TPD416G2133HC1501	16GB	DS	Team	T4D10248M T-24	15-15-15-36	1.2	•	•	
Team	TED44GM2133C15ABK	4GB	SS	SK Hynix	H5AN4G8N MFRTFC	15-15-15-36	1.2	•	•	
Team	TED48GM2133C15BK	8GB	DS	SK hynix	H5AN4G8N MFRTFC	15-15-15-36	1.2	•	•	
Team	TED432G2133C15QC01	32GB(8GB*4)	DS	SK hynix	H5AN4G8N MFRTFC	15-15-15-36	1.2	•	•	
Team	TPRD432G2133HC15QC01	32GB(8GB*4)	DS	SK hynix	H5AN4G8N MFRTFC	15-15-15-36	1.2	•	•	
Team	TPD432G2133HC15QC01	32GB(8GB*4)	DS	SK hynix	H5AN4G8N MFRTFC	15-15-15-36	1.2	•	•	
Team	TED416G2133C15DC01	16GB(8GB*2)	DS	SK hynix	H5AN4G8N MFRTFC	15-15-15-36	1.2	•	•	
Team	TPRD416G2133HC15DC01	16GB(8GB*2)	DS	SK hynix	H5AN4G8N MFRTFC	15-15-15-36	1.2	•	•	

Team	TPD416G2133HC15DC01	16GB(8GB*2)	DS	SK hynix	H5AN4G8N MFRTFC	15-15-15-36	1.2	•	•	
Team	TED48G2133C1501	8GB	DS	SK hynix	H5AN4G8N MFRTFC	15-15-15-36	1.2	•	•	
Team	TPRD48G2133HC1501	8GB	DS	SK hynix	H5AN4G8N MFRTFC	15-15-15-36	1.2	•	•	
Team	TPD48G2133HC1501	8GB	DS	SK hynix	H5AN4G8N MFRTFC	15-15-15-36	1.2	•	•	
UMAX	84G44G93MC-21OMCALGF15	4GB	SS	Micron	D9RGQ	15-15-15-36	-	•	•	•
UMAX	84G48G93MC-21OMCGNGF15	8GB	DS	Micron	D9RGQ	15-15-15-36	-	•	•	
V-color	TC48G21S815-IMS	8GB	SS	-	-	15-15-15-36	1.2	•	•	

8 DIMM Slots

For each DRAM channel (A,B,C,D), make sure to install the DRAM module to dark gray slot first.

- **1 DIMM:** Supports one (1) module inserted into any dark gray slot as Single-channel memory configuration. Install the module into the C1 slot for better compatibility.
- **2 DIMMs:** Supports two (2) modules inserted into one pair of dark gray slots as one pair of Dual-channel memory configuration. Install the modules into slots A1 and C1 for better compatibility.
- **4 DIMMs:** Supports four (4) modules inserted into four dark gray slots as two pairs of Quad-channel memory configuration. Install the modules into slots A1/B1/C1/D1 for better compatibility.
- **6 DIMMs:** Supports six (6) modules inserted into four dark gray slots and one pair of black slots as three pairs of Quad-channel memory configurations. Install the modules into slots A1/A2/B1/C1/C2/D1 for better compatibility.
- **8 DIMMs:** Supports eight (8) modules inserted into all the slots as fully-loaded Quad-channel memory configurations.