

**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
<b>G.SKILL</b>	F4-4200C19Q2-64GTZSW	64GB(8GB*8)	SS			19-19-19-39	1.4V			•
<b>G.SKILL</b>	F4-4200C19Q2-64GTZKK	64GB(8GB*8)	SS			19-19-19-39	1.4V			•
<b>CORSAIR</b>	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
<b>G.SKILL</b>	F4-4133C19Q2-64GTZSWE	64GB(8GB*8)	SS			19-19-19-39	1.4V			•
<b>G.SKILL</b>	F4-4133C19Q2-64GTZKKE	64GB(8GB*8)	SS			19-19-19-39	1.4V			•
<b>CORSAIR</b>	CMK64GX4M8X4133C19	64GB(8GB*8)	SS			19-25-25-45	1.4V			•
<b>CORSAIR</b>	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
<b>G.SKILL</b>	F4-4000C18Q2-64GTZSW	64GB(8GB*8)	SS			18-19-19-39	1.35V			•
<b>G.SKILL</b>	F4-4000C18Q2-64GTZKK	64GB(8GB*8)	SS			18-19-19-39	1.35V			•
<b>G.SKILL</b>	F4-4000C18Q2-64GTZR	64GB(8GB*8)	SS			18-19-19-39	1.35V			•
<b>CORSAIR</b>	CMK64GX4M8X4000C19	64GB(8GB*8)	SS			19-23-23-45	1.35V			•
<b>CORSAIR</b>	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
<b>G.SKILL</b>	F4-3800C18Q2-64GTZSW	64GB(8GB*8)	SS			18-18-18-38	1.35V			•
<b>G.SKILL</b>	F4-3800C18Q2-64GTZKK	64GB(8GB*8)	SS			18-18-18-38	1.35V			•
<b>G.SKILL</b>	F4-3800C18Q2-64GTZR	64GB(8GB*8)	SS			18-18-18-38	1.35V			•
<b>G.SKILL</b>	F4-3800C19Q2-128GTZSW	128GB(16GB*8)	DS			19-19-19-39	1.35V			•
<b>G.SKILL</b>	F4-3800C19Q2-128GTZKK	128GB(16GB*8)	DS			19-19-19-39	1.35V			•
<b>G.SKILL</b>	F4-3800C19Q2-128GTZR	128GB(16GB*8)	DS			19-19-19-39	1.35V			•
<b>CORSAIR</b>	CMK64GX4M8X3800C19	64GB(8GB*8)	SS			19-19-19-39	1.35V			•
<b>CORSAIR</b>	CMR64GX4M8X3800C19	64GB(8GB*8)	SS			19-19-19-39	1.35V			•
<b>CORSAIR</b>	CMK128GX4M8X3800C19	128GB(16GB*8)	DS			19-19-19-39	1.35V			•
<b>CORSAIR</b>	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
<b>G.SKILL</b>	F4-3733C17Q2-64GTZSW	64GB(8GB*8)	SS			17-17-17-37	1.35V			●
<b>G.SKILL</b>	F4-3733C17Q2-64GTZKK	64GB(8GB*8)	SS			17-17-17-37	1.35V			●
<b>G.SKILL</b>	F4-3733C17Q2-64GTZR	64GB(8GB*8)	SS			17-17-17-37	1.35V			●
<b>G.SKILL</b>	F4-3733C18Q2-128GTZSW	128GB(16GB*8)	DS			18-19-19-39	1.35V			●
<b>G.SKILL</b>	F4-3733C18Q2-128GTZKK	128GB(16GB*8)	DS			18-19-19-39	1.35V			●
<b>G.SKILL</b>	F4-3733C18Q2-128GTZR	128GB(16GB*8)	DS			18-19-19-39	1.35V			●
<b>SUPER TALENT</b>	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
<b>G.SKILL</b>	F4-3600C16Q-32GTZSW	32GB(8GB*4)	SS			16-16-16-36	1.35V	●	●	
<b>G.SKILL</b>	F4-3600C16Q-32GTZKK	32GB(8GB*4)	SS			16-16-16-36	1.35V	●	●	
<b>G.SKILL</b>	F4-3600C16Q-32GTZR	32GB(8GB*4)	SS			16-16-16-36	1.35V	●	●	
<b>G.SKILL</b>	F4-3600C16Q2-64GTZSW	64GB(8GB*8)	SS			16-16-16-36	1.35V	●	●	●
<b>G.SKILL</b>	F4-3600C16Q2-64GTZKK	64GB(8GB*8)	SS			16-16-16-36	1.35V	●	●	●
<b>G.SKILL</b>	F4-3600C16Q2-64GTZR	64GB(8GB*8)	SS			16-16-16-36	1.35V	●	●	●
<b>G.SKILL</b>	F4-3600C17Q2-128GTZSW	128GB(16GB*8)	DS			17-19-19-39	1.35V	●	●	●
<b>G.SKILL</b>	F4-3600C17Q2-128GTZKK	128GB(16GB*8)	DS			17-19-19-39	1.35V	●	●	●
<b>G.SKILL</b>	F4-3600C17Q2-128GTZR	128GB(16GB*8)	DS			17-19-19-39	1.35V	●	●	●
<b>CORSAIR</b>	CMK64GX4M8X3600C18	64GB(8GB*8)	SS			18-19-19-39	1.35V	●	●	●
<b>CORSAIR</b>	CMR64GX4M8X3600C18	64GB(8GB*8)	SS			18-19-19-39	1.35V	●	●	●
<b>CORSAIR</b>	CMK128GX4M8X3600C18	128GB(16GB*8)	DS			18-19-19-39	1.35V	●	●	●
<b>CORSAIR</b>	CMR128GX4M8X3600C18	128GB(16GB*8)	DS			18-19-19-39	1.35V	●	●	●
<b>CORSAIR</b>	CMK64GX4M4B3600C18	64GB(16GB*4)	DS			18-19-19-39	1.35V	●	●	
<b>CORSAIR</b>	CMD32GX4M4B3600C16	32GB(8GB*4)	SS			16-18-18-36	1.35V	●	●	
<b>CORSAIR</b>	CMK32GX4M4B3600C16R	32GB(8GB*4)	SS			16-18-18-36	1.35V	●	●	
<b>CORSAIR</b>	CMK32GX4M4B3600C18	32GB(8GB*4)	SS			18-19-19-39	1.35V	●	●	
<b>CORSAIR</b>	CMR32GX4M4C3600C18	32GB(8GB*4)	SS			16-18-18-36	1.35V	●	●	
<b>CORSAIR</b>	CMK32GX4M4B3600C18R	32GB(8GB*4)	SS			18-19-19-39	1.35V	●	●	
<b>CORSAIR</b>	CMK16GX4M4B3600C18	16GB(4GB*4)	SS			18-19-19-39	1.35V	●	●	
<b>CORSAIR</b>	CMD16GX4M4B3600C18	16GB(4GB*4)	SS			18-19-19-39	1.35V	●	●	
<b>CORSAIR</b>	CMT32GX4M4K3600C16 ver4.31	32GB(8GB*4)	SS	Samsung		16-18-18-36	1.35V	●	●	
<b>Kingston</b>	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
<b>G.SKILL</b>	F4-3466C16Q-32GTZSW	32GB(8GB*4)	SS			16-18-18-38	1.35V	●	●	
<b>G.SKILL</b>	F4-3466C16Q-32GTZKK	32GB(8GB*4)	SS			16-18-18-38	1.35V	●	●	
<b>G.SKILL</b>	F4-3466C16Q-32GTZR	32GB(8GB*4)	SS			16-18-18-38	1.35V	●	●	
<b>G.SKILL</b>	F4-3466C16Q2-64GTZSW	64GB(8GB*8)	SS			16-18-18-38	1.35V	●	●	●
<b>G.SKILL</b>	F4-3466C16Q2-64GTZKK	64GB(8GB*8)	SS			16-18-18-38	1.35V	●	●	●
<b>G.SKILL</b>	F4-3466C16Q2-64GTZR	64GB(8GB*8)	SS			16-18-18-38	1.35V	●	●	●
<b>G.SKILL</b>	F4-3466C16Q-64GTZSW	64GB(16GB*4)	DS			16-18-18-38	1.35V	●	●	
<b>G.SKILL</b>	F4-3466C16Q-64GTZKK	64GB(16GB*4)	DS			16-18-18-38	1.35V	●	●	
<b>G.SKILL</b>	F4-3466C16Q-64GTZR	64GB(16GB*4)	DS			16-18-18-38	1.35V	●	●	
<b>G.SKILL</b>	F4-3466C16Q2-128GTZSW	128GB(16GB*8)	DS			16-18-18-38	1.35V	●	●	●
<b>G.SKILL</b>	F4-3466C16Q2-128GTZKK	128GB(16GB*8)	DS			16-18-18-38	1.35V	●	●	●
<b>G.SKILL</b>	F4-3466C16Q2-128GTZR	128GB(16GB*8)	DS			16-18-18-38	1.35V	●	●	●
<b>CORSAIR</b>	CMK64GX4M4B3466C16	64GB(16GB*4)	DS			16-18-18-36	1.35V	●	●	
<b>CORSAIR</b>	CMR64GX4M4C3466C16	64GB(16GB*4)	DS			16-18-18-36	1.35V	●	●	
<b>CORSAIR</b>	CMD64GX4M4B3466C16	64GB(16GB*4)	DS			16-18-18-36	1.35V	●	●	
<b>CORSAIR</b>	CMK64GX4M4B3466C16R	64GB(16GB*4)	DS			16-18-18-36	1.35V	●	●	
<b>CORSAIR</b>	CMK32GX4M4B3466C16	32GB(8GB*4)	SS			16-18-18-36	1.35V	●	●	
<b>CORSAIR</b>	CMR32GX4M4C3466C16	32GB(8GB*4)	SS			16-18-18-36	1.35V	●	●	
<b>CORSAIR</b>	CMD32GX4M4B3466C16	32GB(8GB*4)	SS			16-18-18-36	1.35V	●	●	
<b>CORSAIR</b>	CMU32GX4M4C3466C16	32GB(8GB*4)	SS			16-18-18-36	1.35V	●	●	
<b>CORSAIR</b>	CMK32GX4M4B3466C16R	32GB(8GB*4)	SS			16-18-18-36	1.35V	●	●	
<b>CORSAIR</b>	CMU32GX4M4C3466C16R	32GB(8GB*4)	SS			16-18-18-36	1.35V	●	●	
<b>CORSAIR</b>	CMK16GX4M4B3466C16	16GB(4GB*4)	SS			16-18-18-36	1.35V	●	●	
<b>CORSAIR</b>	CMK16GX4M4B3466C16R	16GB(4GB*4)	SS			16-18-18-36	1.35V	●	●	

**DDR4 3400 Qualified Vendors List (QVL)**

Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	DIMM socket support (Optional)		
								2 DIMM	4 DIMM	8 DIMM
<b>CORSAIR</b>	CMK64GX4M8B3400C16	64GB(8GB*8)	SS			16-18-18-36	1.35V	●	●	●
<b>CORSAIR</b>	CMK64GX4M8B3400C16R	64GB(8GB*8)	SS			16-18-18-36	1.35V	●	●	●
<b>CORSAIR</b>	CMK32GX4M4B3400C16	32GB(8GB*4)	SS			16-18-18-36	1.35V	●	●	
<b>CORSAIR</b>	CMK32GX4M4C3400C16	32GB(8GB*4)	SS			16-18-18-36	1.35V	●	●	
<b>CORSAIR</b>	CMR32GX4M4C3400C16	32GB(8GB*4)	SS			16-18-18-36	1.35V	●	●	

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	•	•	



<b>CORSAIR</b>	CMD32GX4M4C3200C14M	32GB(8GB*4)	SS	14-16-16-36	1.35V	●	●	
<b>CORSAIR</b>	CMK32GX4M4B3200C14R	32GB(8GB*4)	SS	14-16-16-36	1.35V	●	●	
<b>CORSAIR</b>	CMK32GX4M4B3200C15	32GB(8GB*4)	SS	15-17-17-35	1.35V	●	●	
<b>CORSAIR</b>	CMD32GX4M4B3200C15	32GB(8GB*4)	SS	15-17-17-36	1.35V	●	●	
<b>CORSAIR</b>	CMK32GX4M4B3200C16	32GB(8GB*4)	SS	16-18-18-36	1.35V	●	●	
<b>CORSAIR</b>	CMK32GX4M4D3200C16	32GB(8GB*4)	SS	16-18-18-36	1.35V	●	●	
<b>CORSAIR</b>	CMK32GX4M4E3200C16	32GB(8GB*4)	SS	16-18-18-36	1.35V	●	●	
<b>CORSAIR</b>	CMR32GX4M4C3200C16	32GB(8GB*4)	SS	16-18-18-36	1.35V	●	●	
<b>CORSAIR</b>	CMR32GX4M4D3200C16	32GB(8GB*4)	SS	16-18-18-36	1.35V	●	●	
<b>CORSAIR</b>	CMD32GX4M4B3200C16	32GB(8GB*4)	SS	16-18-18-36	1.35V	●	●	
<b>CORSAIR</b>	CMU32GX4M4C3200C16	32GB(8GB*4)	SS	16-18-18-36	1.35V	●	●	
<b>CORSAIR</b>	CMU32GX4M4C3200C16B	32GB(8GB*4)	SS	16-18-18-36	1.35V	●	●	
<b>CORSAIR</b>	CMU32GX4M4C3200C16R	32GB(8GB*4)	SS	16-18-18-36	1.35V	●	●	
<b>CORSAIR</b>	CMK32GX4M4C3200C16S	32GB(8GB*4)	SS	16-18-18-36	1.35V	●	●	
<b>CORSAIR</b>	CMK32GX4M4B3200C16W	32GB(8GB*4)	SS	16-18-18-36	1.35V	●	●	
<b>CORSAIR</b>	CMK16GX4M4B3200C14	16GB(4GB*4)	SS	14-16-16-36	1.35V	●	●	
<b>CORSAIR</b>	CMK16GX4M4C3200C14	16GB(4GB*4)	SS	14-16-16-36	1.35V	●	●	
<b>CORSAIR</b>	CMD16GX4M4B3200C14	16GB(4GB*4)	SS	14-16-16-36	1.35V	●	●	
<b>CORSAIR</b>	CMK16GX4M4B3200C15	16GB(4GB*4)	SS	15-17-17-35	1.35V	●	●	
<b>CORSAIR</b>	CMK16GX4M4C3200C15	16GB(4GB*4)	SS	15-17-17-35	1.35V	●	●	
<b>CORSAIR</b>	CMD16GX4M4B3200C15	16GB(4GB*4)	SS	15-17-17-35	1.35V	●	●	
<b>CORSAIR</b>	CMD16GX4M4C3200C15	16GB(4GB*4)	SS	15-17-17-35	1.35V	●	●	
<b>CORSAIR</b>	CMK16GX4M4B3200C15R	16GB(4GB*4)	SS	15-17-17-35	1.35V	●	●	
<b>CORSAIR</b>	CMK16GX4M4B3200C16	16GB(4GB*4)	SS	16-18-18-36	1.35V	●	●	
<b>CORSAIR</b>	CMK16GX4M4C3200C16	16GB(4GB*4)	SS	16-18-18-36	1.35V	●	●	
<b>CORSAIR</b>	CMD16GX4M4B3200C16	16GB(4GB*4)	SS	16-18-18-36	1.35V	●	●	
<b>CORSAIR</b>	CMD16GX4M4C3200C16	16GB(4GB*4)	SS	16-18-18-36	1.35V	●	●	
<b>CORSAIR</b>	CMK16GX4M4B3200C16R	16GB(4GB*4)	SS	16-18-18-36	1.35V	●	●	
<b>CORSAIR</b>	CMK16GX4M4C3200C16R	16GB(4GB*4)	SS	16-18-18-36	1.35V	●	●	
<b>CORSAIR</b>	CMD16GX4M4B3200C16R	16GB(4GB*4)	SS	16-18-18-36	1.35V	●	●	
<b>Kingston</b>	HX432C16PB3K4/16	16GB(4GB*4)	SS	16-18-18-36	1.35V	●	●	
<b>Kingston</b>	HX432C16PB3K4/32	32GB(8GB*4)	SS	16-18-18-36	1.35V	●	●	
<b>NEO FORZA</b>	NFMUD480E8-3200DH2A	64GB(8GB*8)	SS	16-18-18-36	1.35V	●	●	●
<b>NEO FORZA</b>	NFMUD416E8-3200DH2A	128GB(16GB*8)	DS	16-18-18-36	1.35V	●	●	●
<b>SUPER TALENT</b>	F3200UA4G	32GB(4GB*8)	SS	17-19-19-39	1.35V	●	●	●
<b>SUPER TALENT</b>	F3200UB16G	128GB(16GB*8)	DS	16-18-18-36	1.35V	●	●	●

**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
<b>ADATA</b>	AX4U3000316G16-BGZ(XMP)	16GB	DS	-	-	16-18-18-36	1.35	●	●	
<b>ADATA</b>	AX4U300038G16-DBZ(XMP)	8GB	SS	-	-	16-18-18-36	1.35	●	●	
<b>ADATA</b>	AX4U3000W4G16-BWZ(XMP)	4GB	SS	-	-	16-16-16-36	1.35	●		
<b>ADATA</b>	AX4U3000W8G16-BWZ(XMP)	8GB	DS	-	-	16-16-16-36	1.35	●	●	
<b>Apacer</b>	EK.16GAW.KFBK2(XMP)	8GB	DS	-	-	16-16-16-36	-	●	●	
<b>Apacer</b>	AHU08GGB30CDG6H (EK.16GAZ.GEAK2)	16GB (2x 8GB )	SS	Apacer	-	16-16-16-36	1.35	●	●	
<b>Apacer</b>	AHU08GGB30CDU5H (EK.16GAZ.GEBK2)	16GB (2x 8GB )	SS	Apacer	-	16-16-16-36	1.35	●	●	
<b>CORSAIR</b>	CMD16GX4M2B3000C15(Ver4.23)(XMP)	16GB ( 2x 8GB )	DS	-	-	15-17-17-35	1.35	●		
<b>CORSAIR</b>	CMD16GX4M2B3000C15(Ver5.30)(XMP)	16GB ( 2x 8GB )	SS	-	-	15-17-17-35	1.35	●		
<b>CORSAIR</b>	CMD16GX4M4B3000C15(Ver4.23)(XMP)	16GB ( 4x 4GB )	SS	-	-	15-17-17-35	1.35	●	●	
<b>CORSAIR</b>	CMD16GX4M4B3000C15(Ver5.29)(XMP)	16GB ( 4x 4GB )	DS	-	-	15-17-17-35	1.35	●	●	
<b>CORSAIR</b>	CMD32GX4M4B3000C15(Ver4.23)(XMP)	32GB ( 4x 8GB )	DS	-	-	15-17-17-35	1.35	●	●	
<b>CORSAIR</b>	CMD32GX4M4C3000C15(Ver5.30)(XMP)	32GB ( 4x 8GB )	SS	-	-	15-17-17-35	1.35	●	●	
<b>CORSAIR</b>	CMK16GX4M2B3000C15(Ver4.23)(XMP)	16GB ( 2x 8GB )	DS	-	-	15-17-17-35	1.35	●		
<b>CORSAIR</b>	CMK16GX4M2B3000C15(Ver5.30)(XMP)	16GB ( 2x 8GB )	SS	-	-	15-17-17-35	1.35	●		
<b>CORSAIR</b>	CMK16GX4M4B3000C15(Ver5.29)(XMP)	16GB ( 4x 4GB )	SS	-	-	15-17-17-35	1.35	●	●	
<b>CORSAIR</b>	CMK32GX4M2B3000C15(Ver4.31)(XMP)	32GB ( 2x 16GB )	DS	-	-	15-17-17-35	1.35	●		
<b>CORSAIR</b>	CMK32GX4M4B3000C15(Ver4.24)(XMP)	32GB ( 4x 8GB )	DS	-	-	15-17-17-35	1.35	●	●	
<b>CORSAIR</b>	CMK64GX4M4B3000C15(Ver4.31)(XMP)	64GB ( 4x 16GB )	DS	-	-	15-17-17-35	1.35	●	●	
<b>CORSAIR</b>	CMK8GX4M2B3000C15(Ver4.23)(XMP)	8GB ( 2x 4GB )	DS	-	-	15-17-17-35	1.35	●		
<b>CORSAIR</b>	CMR16GX4M2C3000C15(Ver4.31)(XMP)	16GB ( 2x 8GB )	SS	-	-	15-17-17-35	1.35	●		

<b>CORSAIR</b>	CMR32GX4M4C3000C15(Ver4.31)(XMP)	32GB ( 4x 8GB )	SS	-	-	15-17-17-35	1.35	•	•
<b>CORSAIR</b>	CMU16GX4M2C3000C15(Ver3.21)(XMP)	16GB ( 2x 8GB )	DS	-	-	15-17-17-35	1.35	•	
<b>crucial</b>	BLE4G4D30AEEA.K8FE(XMP)	4GB	SS	-	-	15-16-16-35	1.35	•	•
<b>crucial</b>	BLE8G4D30AEEA.K16FE(XMP)	8GB	DS	-	-	15-16-16-35	1.35	•	•
<b>crucial</b>	BLT4G4D30AETA.K8FE(XMP)	4GB	SS	-	-	15-16-16-35	1.35	•	•
<b>crucial</b>	BLT8G4D30AETA.K16FE(XMP)	8GB	DS	-	-	15-16-16-35	1.35	•	•
<b>G.SKILL</b>	F4-3000C14Q2-128GVK(XMP)	128GB ( 8x 16GB )	DS	-	-	14-14-14-34	1.35	•	•
<b>G.SKILL</b>	F4-3000C14Q2-128GVRD	128GB ( 8x 16GB )	DS			14-14-14-34	1.35	•	•
<b>G.SKILL</b>	F4-3000C14Q2-128GVKD	128GB ( 8x 16GB )	DS			14-14-14-34	1.35	•	•
<b>G.SKILL</b>	F4-3000C15D-8GTZB(XMP)	8GB ( 2x 4GB )	SS	-	-	15-16-16-35	1.35	•	
<b>G.SKILL</b>	F4-3000C15D-8GTZB	8GB ( 2x 4GB )	SS			15-16-16-35	1.35	•	
<b>G.SKILL</b>	F4-3000C15D-8GVRB	8GB ( 2x 4GB )	SS			15-16-16-35	1.35	•	
<b>G.SKILL</b>	F4-3000C15Q-16GRK(XMP)	16GB ( 4x 4GB )	SS	-	-	15-15-15-35	1.35	•	•
<b>G.SKILL</b>	F4-3000C15Q-16GTZ	16GB ( 4x 4GB )	SS			15-15-15-35	1.35	•	•
<b>G.SKILL</b>	F4-3000C15Q-16GVR	16GB ( 4x 4GB )	SS			15-15-15-35	1.35	•	•
<b>G.SKILL</b>	F4-3000C15Q-16GVB	16GB ( 4x 4GB )	SS			15-15-15-35	1.35	•	•
<b>G.SKILL</b>	F4-3000C15Q-16GVK	16GB ( 4x 4GB )	SS			15-15-15-35	1.35	•	•
<b>G.SKILL</b>	F4-3000C15Q-16GVG	16GB ( 4x 4GB )	SS			15-15-15-35	1.35	•	•
<b>G.SKILL</b>	F4-3000C15Q-16GVS	16GB ( 4x 4GB )	SS			15-15-15-35	1.35	•	•
<b>G.SKILL</b>	F4-3000C15Q-16GRR(XMP)	16GB ( 4x 4GB )	SS	-	-	15-15-15-35	1.35	•	•
<b>G.SKILL</b>	F4-3000C15Q-32GRK(XMP)	32GB ( 4x 8GB )	DS	-	-	15-15-15-35	1.35	•	
<b>G.SKILL</b>	F4-3000C15Q-32GTZ	32GB ( 4x 8GB )	DS			15-15-15-35	1.35	•	
<b>G.SKILL</b>	F4-3000C15Q-32GVR	32GB ( 4x 8GB )	DS			15-15-15-35	1.35	•	
<b>G.SKILL</b>	F4-3000C15Q-32GVB	32GB ( 4x 8GB )	DS			15-15-15-35	1.35	•	
<b>G.SKILL</b>	F4-3000C15Q-32GVK	32GB ( 4x 8GB )	DS			15-15-15-35	1.35	•	
<b>G.SKILL</b>	F4-3000C15Q-32GVG	32GB ( 4x 8GB )	DS			15-15-15-35	1.35	•	
<b>G.SKILL</b>	F4-3000C15Q-32GVS	32GB ( 4x 8GB )	DS			15-15-15-35	1.35	•	
<b>G.SKILL</b>	F4-3000C16Q2-128GVKB(XMP)	128GB ( 8x 16GB )	DS	-	-	16-18-18-38	1.35	•	•
<b>Gell</b>	GLR416GB3000C16QC(XMP)	16GB ( 4x 4GB )	SS	-	-	16-16-16-36	1.35	•	•
<b>Gell</b>	GWW416GB3000C15DC(XMP)	16GB ( 2x 8GB )	DS	Gell	CG4L512G8 8BA093L	15-17-17-35	1.35	•	
<b>Hyper X</b>	HX430C15PB3K4/64(XMP)	64GB ( 4x 16GB )	DS	-	-	15-17-17-36	1.35	•	•
<b>Hyper X</b>	HX430C15SB2/4(XMP)	4GB	SS	-	-	15-17-17-39	1.35	•	•
<b>Hyper X</b>	HX430C15SB2K2/8(XMP)	8GB ( 2x 4GB )	SS	-	-	15-17-17-39	1.35	•	
<b>Hyper X</b>	HX430C15SB2K4/16(XMP)	16GB ( 4x 4GB )	SS	-	-	15-17-17-39	1.35	•	•
<b>Hyper X</b>	HX430C15SBK2/16(XMP)	16GB ( 2x 8GB )	DS	-	-	15-16-16-39	1.35	•	
<b>Hyper X</b>	HX430C16PBK4/64(XMP)	64GB ( 4x 16GB )	DS	-	-	16-16-16-39	1.35	•	•



<b>Klevv</b>	IM44GU48A30-FGGHAZ(XMP)	4GB	SS	-	-	15-15-16-36	1.35	●	●
<b>Klevv</b>	IM44GU48A30-GIIHMC(XMP)	4GB	SS	-	-	16-18-18-36	1.35	●	●
<b>Klevv</b>	IM44GU48N30-FFFHAB(XMP)	4GB	SS	-	-	15-15-16-36	1.2	●	●
<b>Klevv</b>	IM48GU48A30-GIIHMC(XMP)	8GB	DS	-	-	16-18-18-36	1.35	●	●
<b>Klevv</b>	IM48GU88A30-FGGHMZ(XMP)	8GB	DS	-	-	15-15-16-36	1.35	●	●
<b>Klevv</b>	IM4AGU88A30-FGGHMZ(XMP)	16GB	DS	-	-	15-15-16-36	1.35	●	●
<b>Klevv</b>	IM4AGU88N30-FFFHMB(XMP)	16GB	DS	-	-	15-15-16-36	1.2	●	●
<b>NEO FORZA</b>	NFMUD416E8-3000DB2A(XMP)	16GB	DS	-	-	15-17-17-35	-	●	●
<b>NEO FORZA</b>	NFMUD416E8-3000DB3A(XMP)	16GB	DS	-	-	15-17-17-35	-	●	●
<b>NEO FORZA</b>	NFMUD416E8-3000DC2A(XMP)	16GB	DS	-	-	15-17-17-35	-	●	●
<b>NEO FORZA</b>	NFMUD416E8-3000DC3A(XMP)	16GB	DS	-	-	15-17-17-35	-	●	●
<b>NEO FORZA</b>	NFMUD416E8-3000DD2A(XMP)	16GB	DS	-	-	15-17-17-35	-	●	●
<b>NEO FORZA</b>	NFMUD416E8-3000DD3A(XMP)	16GB	DS	-	-	15-17-17-35	-	●	●
<b>NEO FORZA</b>	NFMUD416E8-3000DH2A(XMP)	16GB	DS	-	-	15-17-17-35	-	●	●
<b>NEO FORZA</b>	NFMUD416E8-3000DH2A(XMP)	16GB	DS	-	-	15-17-17-35	-	●	●
<b>NEO FORZA</b>	NFMUD480E8-3000DB2A(XMP)	8GB	SS	-	-	15-17-17-35	-	●	●
<b>NEO FORZA</b>	NFMUD480E8-3000DB3A(XMP)	8GB	SS	-	-	15-17-17-35	-	●	●
<b>NEO FORZA</b>	NFMUD480E8-3000DC2A(XMP)	8GB	SS	-	-	15-17-17-35	-	●	●
<b>NEO FORZA</b>	NFMUD480E8-3000DC3A(XMP)	8GB	SS	-	-	15-17-17-35	-	●	●
<b>NEO FORZA</b>	NFMUD480E8-3000DD2A(XMP)	8GB	SS	-	-	15-17-17-35	-	●	●
<b>NEO FORZA</b>	NFMUD480E8-3000DD3A(XMP)	8GB	SS	-	-	15-17-17-35	-	●	●
<b>NEO FORZA</b>	NFMUD480E8-3000DH2A(XMP)	8GB	SS	-	-	15-17-17-35	-	●	●
<b>NEO FORZA</b>	NFMUD480E8-3000DH2A(XMP)	8GB	SS	-	-	15-17-17-35	-	●	●
<b>PATRIOT</b>	PV416G300C6QK(XMP)	16GB ( 4x 4GB )	SS	-	-	16-16-16-36	1.35	●	●
<b>PATRIOT</b>	PVE416G300C6KBL(XMP)	16GB ( 2x 8GB )	SS	-	-	16-16-16-36	-	●	●
<b>PATRIOT</b>	PVE48G300C6KRD(XMP)	8GB ( 2x 4GB )	SS	-	-	16-16-16-36	-	●	●
<b>Team</b>	TCD44G3000C16CBK(XMP)	4GB	SS	Team	T4D5128HT-30	16-18-18-38	1.35	●	●
<b>Team</b>	TLRED416G3000HC16CQC01	16GB(4GB*4)	SS	Team	T4D5128HT-30	16-18-18-38	1.35	●	●
<b>Team</b>	TLGD416G3000HC16CQC01	16GB(4GB*4)	SS	Team	T4D5128HT-30	16-18-18-38	1.35	●	●
<b>Team</b>	TDRED416G3000HC16CQC01	16GB(4GB*4)	SS	Team	T4D5128HT-30	16-18-18-38	1.35	●	●
<b>Team</b>	TDGED416G3000HC16CQC01	16GB(4GB*4)	SS	Team	T4D5128HT-30	16-18-18-38	1.35	●	●
<b>Team</b>	TLRED48G3000HC16CDC01	8GB(4GB*2)	SS	Team	T4D5128HT-30	16-18-18-38	1.35	●	●
<b>Team</b>	TLGD48G3000HC16CDC01	8GB(4GB*2)	SS	Team	T4D5128HT-30	16-18-18-38	1.35	●	●

<b>Team</b>	TDRED48G3000HC16CDC01	8GB(4GB*2)	SS	Team	T4D5128HT-30	16-18-18-38	1.35	•
<b>Team</b>	TDGED48G3000HC16CDC01	8GB(4GB*2)	SS	Team	T4D5128HT-30	16-18-18-38	1.35	•
<b>Team</b>	TFRD48G3000C16CBK(XMP)	8GB	DS	-	K4A4G085W SBCPB	16-18-18-38	1.35	•
<b>Team</b>	TLRED432G3000HC16CQC01	32GB(8GB*4)	DS	-	K4A4G085W SBCPB	16-18-18-38	1.35	• •
<b>Team</b>	TLGD432G3000HC16CQC01	32GB(8GB*4)	DS	-	K4A4G085W SBCPB	16-18-18-38	1.35	• •
<b>Team</b>	TDRED432G3000HC16CQC01	32GB(8GB*4)	DS	-	K4A4G085W SBCPB	16-18-18-38	1.35	• •
<b>Team</b>	TDGED432G3000HC16CQC01	32GB(8GB*4)	DS	-	K4A4G085W SBCPB	16-18-18-38	1.35	• •
<b>Team</b>	TDPRD432G3000HC16CQC01	32GB(8GB*4)	DS	-	K4A4G085W SBCPB	16-18-18-38	1.35	• •
<b>Team</b>	TDPGD432G3000HC16CQC01	32GB(8GB*4)	DS	-	K4A4G085W SBCPB	16-18-18-38	1.35	• •
<b>Team</b>	THRD432G3000HC16CQC01	32GB(8GB*4)	DS	-	K4A4G085W SBCPB	16-18-18-38	1.35	• •
<b>Team</b>	THWD432G3000HC16CQC01	32GB(8GB*4)	DS	-	K4A4G085W SBCPB	16-18-18-38	1.35	• •
<b>Team</b>	THBD432G3000HC16CQC01	32GB(8GB*4)	DS	-	K4A4G085W SBCPB	16-18-18-38	1.35	• •
<b>Team</b>	TDTRD432G3000HC16CQC01	32GB(8GB*4)	DS	-	K4A4G085W SBCPB	16-18-18-38	1.35	• •
<b>Team</b>	TDTWD432G3000HC16CQC01	32GB(8GB*4)	DS	-	K4A4G085W SBCPB	16-18-18-38	1.35	• •
<b>Team</b>	TDTBD432G3000HC16CQC01	32GB(8GB*4)	DS	-	K4A4G085W SBCPB	16-18-18-38	1.35	• •
<b>Team</b>	TLRED416G3000HC16CDC01	16GB(8GB*2)	DS	-	K4A4G085W SBCPB	16-18-18-38	1.35	•
<b>Team</b>	TLGD416G3000HC16CDC01	16GB(8GB*2)	DS	-	K4A4G085W SBCPB	16-18-18-38	1.35	•
<b>Team</b>	TDRED416G3000HC16CDC01	16GB(8GB*2)	DS	-	K4A4G085W SBCPB	16-18-18-38	1.35	•
<b>Team</b>	TDGED416G3000HC16CDC01	16GB(8GB*2)	DS	-	K4A4G085W SBCPB	16-18-18-38	1.35	•
<b>Team</b>	TDPRD416G3000HC16CDC01	16GB(8GB*2)	DS	-	K4A4G085W SBCPB	16-18-18-38	1.35	•
<b>Team</b>	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	•	

<b>Team</b>	TDTWD432G3000HC16CDC01	32GB(16GB*2)	DS	Team	T4D10248H T-30	16-18-18-38	1.35	•
<b>Team</b>	TDTBD432G3000HC16CDC01	32GB(16GB*2)	DS	Team	T4D10248H T-30	16-18-18-38	1.35	•

### 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
<b>ADATA</b>	AX4U2800316G16(XMP)	16GB	DS	-	-	16-16-16-36	1.2	•	•	
<b>ADATA</b>	AX4U2800316G16-SBF(XMP)	16GB	DS	-	-	16-16-16-36	1.2	•	•	
<b>ADATA</b>	AX4U280038G17-SBF(XMP)	8GB	SS	-	-	17-17-17-36	1.2	•	•	
<b>ADATA</b>	AX4U2800W4G17-BRZ(XMP)	4GB	SS	-	-	17-17-17-36	1.2	•	•	
<b>ADATA</b>	AX4U2800W8G15(XMP)	8GB	DS	-	-	15-16-16-35	1.25	•		
<b>ADATA</b>	AX4U2800W8G17-BRD(XMP)	8GB	DS	-	-	17-17-17-36	1.2	•	•	
<b>ADATA</b>	AX4U2800W8G17-BRZ(XMP)	8GB	DS	-	-	17-17-17-36	1.2	•	•	
<b>Apacer</b>	78.BAGM8.AF20B(XMP)	16GB (4x 4GB )	SS	-	-	17-17-17-36	-	•	•	
<b>Apacer</b>	EK.16GAW.KFAK2(XMP)	8GB	DS	-	-	17-17-17-36	-	•		
<b>Apacer</b>	AHU08GGB28CET6H (EK.16GAW.KFAK2)	8GB	DS	Apacer	-	17-17-17-36	1.2	•		
<b>Apacer</b>	AHU08GGB28CEU6H (EK.16GAW.GFAK2)	16GB (2x 8GB )	SS	Apacer	-	17-17-17-36	1.2	•		
<b>Apacer</b>	AHU08GGB28CEU5H (EK.16GAW.GFBK2)	16GB (2x 8GB )	SS	Apacer	-	17-17-17-36	1.2	•		
<b>CORSAIR</b>	CMD16GX4M4A2800C16(Ver4.23)(XMP)	16GB ( 4x 4GB )	SS	-	-	16-18-18-36	1.2	•	•	
<b>CORSAIR</b>	CMD16GX4M4A2800C16(Ver5.29)(XMP)	16GB ( 4x 4GB )	SS	-	-	16-18-18-36	1.2	•	•	
<b>CORSAIR</b>	CMK16GX4M4A2800C16(Ver4.23)(XMP)	16GB ( 4x 4GB )	SS	-	-	16-16-18-36	1.2	•	•	
<b>CORSAIR</b>	CMK16GX4M4A2800C16(Ver5.29)(XMP)	16GB ( 4x 4GB )	SS	-	-	16-18-18-36	1.2	•	•	
<b>G.SKILL</b>	F4-2800C14Q-64GVK(XMP)	64GB ( 4x 16GB )	DS	-	-	14-14-14-35	1.35	•	•	
<b>G.SKILL</b>	F4-2800C15Q2-128GRKD(XMP)	128GB ( 8x 16GB )	DS	-	-	15-15-15-35	1.35	•	•	•
<b>G.SKILL</b>	F4-2800C15Q2-64GRK(XMP)	64GB ( 8x 8GB )	DS	-	-	15-16-16-35	1.25	•	•	•
<b>G.SKILL</b>	F4-2800C16Q-16GRK(XMP)	16GB ( 4x 4GB )	SS	-	-	16-16-16-36	1.2	•	•	
<b>G.SKILL</b>	F4-2800C16Q-16GVR	16GB ( 4x 4GB )	SS	-	-	16-16-16-36	1.2	•	•	
<b>G.SKILL</b>	F4-2800C16Q-16GVB	16GB ( 4x 4GB )	SS	-	-	16-16-16-36	1.2	•	•	
<b>G.SKILL</b>	F4-2800C16Q-16GVK	16GB ( 4x 4GB )	SS	-	-	16-16-16-36	1.2	•	•	
<b>G.SKILL</b>	F4-2800C16Q-16GVG	16GB ( 4x 4GB )	SS	-	-	16-16-16-36	1.2	•	•	
<b>G.SKILL</b>	F4-2800C16Q-16GVS	16GB ( 4x 4GB )	SS	-	-	16-16-16-36	1.2	•	•	

<b>G.SKILL</b>	F4-2800C16Q-16GRR(XMP)	16GB ( 4x 4GB )	SS	-	-	16-16-16-36	1.2	●	●
<b>G.SKILL</b>	F4-2800C16Q-32GRK(XMP)	32GB ( 4x 8GB )	DS	-	-	16-16-16-36	1.2	●	●
<b>G.SKILL</b>	F4-2800C16Q-32GRR(XMP)	32GB ( 4x 8GB )	DS	-	-	16-16-16-36	1.2	●	●
<b>G.SKILL</b>	F4-2800C16Q-32GVR	32GB ( 4x 8GB )	DS	-	-	16-16-16-36	1.2	●	●
<b>G.SKILL</b>	F4-2800C16Q-32GVB	32GB ( 4x 8GB )	DS	-	-	16-16-16-36	1.2	●	●
<b>G.SKILL</b>	F4-2800C16Q-32GVK	32GB ( 4x 8GB )	DS	-	-	16-16-16-36	1.2	●	●
<b>G.SKILL</b>	F4-2800C16Q-32GVG	32GB ( 4x 8GB )	DS	-	-	16-16-16-36	1.2	●	●
<b>G.SKILL</b>	F4-2800C16Q-32GVS	32GB ( 4x 8GB )	DS	-	-	16-16-16-36	1.2	●	●
<b>GeIL</b>	GPR416GB2800C16QC(XMP)	16GB ( 4x 4GB )	SS	-	-	16-16-16-36	1.2	●	●
<b>GeIL</b>	GPR432GB2800C16QC(XMP)	32GB ( 4x 8GB )	DS	-	-	16-16-16-36	1.2	●	●
<b>Hyper X</b>	HX428C14PBK8/64(XMP)	64GB (8x 8GB )	DS	-	-	14-15-15-39	1.35		●
<b>Hyper X</b>	HX428C14SB2/4(XMP)	4GB	SS	-	-	14-16-16-39	1.35	●	●
<b>Hyper X</b>	HX428C14SB2/8(XMP)	8GB	DS	-	-	14-16-16-39	1.35	●	●
<b>Hyper X</b>	HX428C14SB2K2/16(XMP)	16GB ( 2x 8GB )	DS	-	-	14-16-16-39	1.35	●	
<b>Hyper X</b>	HX428C14SB2K2/8(XMP)	8GB ( 2x 4GB )	SS	-	-	14-16-16-39	1.35	●	
<b>Hyper X</b>	HX428C14SB2K4/16(XMP)	16GB ( 4x 4GB )	SS	-	-	14-16-16-39	1.35	●	●
<b>Hyper X</b>	HX428C14SB2K4/32(XMP)	32GB ( 4x 8GB )	DS	-	-	14-16-16-39	1.35	●	●
<b>Klevv</b>	IMA451U6MFR8N-DG0(Ver1.05)(XMP)	4GB	SS	-	-	16-16-16-36	1.2		●
<b>NEO FORZA</b>	NMUD416E81-2800EB30	64GB(4x16GB)	DS	-	-	2800-17-17-17-36	-		●
<b>NEO FORZA</b>	NMUD416E82-2800EB30	64GB(4x16GB)	DS	-	-	2800-17-17-17-36	-		●
<b>NEO FORZA</b>	NMUD416E81-2800EC30	64GB(4x16GB)	DS	-	-	2800-17-17-17-36	-		●
<b>NEO FORZA</b>	NMUD416E82-2800EC30	64GB(4x16GB)	DS	-	-	2800-17-17-17-36	-		●
<b>NEO FORZA</b>	NMUD416E81-2800ED30	64GB(4x16GB)	DS	-	-	2800-17-17-17-36	-		●
<b>NEO FORZA</b>	NMUD416E82-2800ED30	64GB(4x16GB)	DS	-	-	2800-17-17-17-36	-		●
<b>NEO FORZA</b>	NMUD480E81-2800EB30	32GB ( 4x 8GB )	SS	-	-	2800-17-17-17-36	-		●
<b>NEO FORZA</b>	NMUD480E82-2800EB30	32GB ( 4x 8GB )	SS	-	-	2800-17-17-17-36	-		●
<b>NEO FORZA</b>	NMUD480E81-2800EC30	32GB ( 4x 8GB )	SS	-	-	2800-17-17-17-36	-		●
<b>NEO FORZA</b>	NMUD480E82-2800EC30	32GB ( 4x 8GB )	SS	-	-	2800-17-17-17-36	-		●
<b>NEO FORZA</b>	NMUD480E8-2800DD2A(XMP)	32GB ( 4x 8GB )	SS	-	-	2800-17-17-17-36	-		●

<b>NEO FORZA</b>	NMUD480E81-2800ED30	32GB ( 4x 8GB )	SS	-	-	2800-17-17-17-36	-	•
<b>NEO FORZA</b>	NMUD480E82-2800ED30	32GB ( 4x 8GB )	SS	-	-	2800-17-17-17-36	-	•
<b>Team</b>	TCD44G2800C16CBK(XMP)	4GB	SS	Team	T4D5128HT-30	16-18-18-38	1.2	•
<b>Team</b>	TLRED416G2800HC16CQC01	16GB(4GB*4)	SS	Team	T4D5128HT-30	16-18-18-38	1.2	•
<b>Team</b>	TLGD416G2800HC16CQC01	16GB(4GB*4)	SS	Team	T4D5128HT-30	16-18-18-38	1.2	•
<b>Team</b>	TDRED416G2800HC16CQC01	16GB(4GB*4)	SS	Team	T4D5128HT-30	16-18-18-38	1.2	•
<b>Team</b>	TDGED416G2800HC16CQC01	16GB(4GB*4)	SS	Team	T4D5128HT-30	16-18-18-38	1.2	•
<b>Team</b>	TLRED48G2800HC16CDC01	8GB(4GB*2)	SS	Team	T4D5128HT-30	16-18-18-38	1.2	•
<b>Team</b>	TLGD48G2800HC16CDC01	8GB(4GB*2)	SS	Team	T4D5128HT-30	16-18-18-38	1.2	•
<b>Team</b>	TDRED48G2800HC16CDC01	8GB(4GB*2)	SS	Team	T4D5128HT-30	16-18-18-38	1.2	•
<b>Team</b>	TDGED48G2800HC16CDC01	8GB(4GB*2)	SS	Team	T4D5128HT-30	16-18-18-38	1.2	•
<b>Team</b>	TFRD48G2800C16CBK(XMP)	8GB	DS	-	K4A4G085W SBCPB	16-18-18-38	1.2	•
<b>Team</b>	TLRED432G2800HC16CQC01	32GB(8GB*4)	DS	-	K4A4G085W SBCPB	16-18-18-38	1.2	•
<b>Team</b>	TLGD432G2800HC16CQC01	32GB(8GB*4)	DS	-	K4A4G085W SBCPB	16-18-18-38	1.2	•
<b>Team</b>	TDRED432G2800HC16CQC01	32GB(8GB*4)	DS	-	K4A4G085W SBCPB	16-18-18-38	1.2	•
<b>Team</b>	TDGED432G2800HC16CQC01	32GB(8GB*4)	DS	-	K4A4G085W SBCPB	16-18-18-38	1.2	•
<b>Team</b>	THRD432G2800HC16CQC01	32GB(8GB*4)	DS	-	K4A4G085W SBCPB	16-18-18-38	1.2	•
<b>Team</b>	THWD432G2800HC16CQC01	32GB(8GB*4)	DS	-	K4A4G085W SBCPB	16-18-18-38	1.2	•
<b>Team</b>	THBD432G2800HC16CQC01	32GB(8GB*4)	DS	-	K4A4G085W SBCPB	16-18-18-38	1.2	•
<b>Team</b>	TLRED416G2800HC16CDC01	16GB(8GB*2)	DS	-	K4A4G085W SBCPB	16-18-18-38	1.2	•
<b>Team</b>	TLGD416G2800HC16CDC01	16GB(8GB*2)	DS	-	K4A4G085W SBCPB	16-18-18-38	1.2	•



<b>Team</b>	TDRED416G2800HC16CDC01	16GB(8GB*2)	DS	-	K4A4G085W SBCPB	16-18-18-38	1.2	•
<b>Team</b>	TDGED416G2800HC16CDC01	16GB(8GB*2)	DS	-	K4A4G085W SBCPB	16-18-18-38	1.2	•
<b>Team</b>	THRD416G2800HC16CDC01	16GB(8GB*2)	DS	-	K4A4G085W SBCPB	16-18-18-38	1.2	•
<b>Team</b>	THWD416G2800HC16CDC01	16GB(8GB*2)	DS	-	K4A4G085W SBCPB	16-18-18-38	1.2	•
<b>Team</b>	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
<b>ADATA</b>	AX4U266638G16-DRZ(XMP)	16GB ( 2x 8GB )	SS	-	-	16-16-16-39	1.2	•		
<b>ADATA</b>	AX4U2666W4G16-BRZ(XMP)	4GB	SS	-	-	16-16-16-39	1.2	•	•	
<b>ADATA</b>	AX4U2666W8G16-QRZ(XMP)	32GB ( 4x 8GB )	DS	-	-	16-16-16-39	1.2	•	•	
<b>CORSAIR</b>	CMD128GX4M8A2666C15(Ver4.31)(XMP)	128GB ( 8x 16GB )	DS	-	-	15-17-17-35	1.2	•	•	•
<b>CORSAIR</b>	CMD16GX4M2A2666C15(Ver4.23)(XMP)	16GB ( 2x 8GB )	DS	-	-	15-17-17-35	1.2	•	•	
<b>CORSAIR</b>	CMD16GX4M4A2666C15(Ver4.23)(XMP)	16GB ( 4x 4GB )	SS	-	-	15-17-17-35	1.2	•	•	
<b>CORSAIR</b>	CMD16GX4M4A2666C16(Ver4.23)(XMP)	16GB ( 4x 4GB )	SS	-	-	16-18-18-35	1.2	•	•	
<b>CORSAIR</b>	CMD16GX4M4A2666C16(Ver5.29)(XMP)	16GB ( 4x 4GB )	SS	-	-	16-18-18-35	1.2	•	•	
<b>CORSAIR</b>	CMD32GX4M4A2666C15(Ver4.23)(XMP)	32GB ( 4x 8GB )	DS	-	-	15-17-17-35	1.2	•	•	
<b>CORSAIR</b>	CMD32GX4M4A2666C15(Ver5.29)(XMP)	32GB ( 4x 8GB )	DS	-	-	15-17-17-35	1.2	•	•	
<b>CORSAIR</b>	CMD32GX4M4A2666C16(Ver4.23)(XMP)	32GB ( 4x 8GB )	DS	-	-	16-18-18-35	1.2	•	•	
<b>CORSAIR</b>	CMD64GX4M8A2666C15(Ver4.23)(XMP)	64GB ( 8x 8GB )	DS	-	-	15-17-17-35	1.2	•	•	
<b>CORSAIR</b>	CMD64GX4M8A2666C15(Ver4.24)(XMP)	64GB ( 8x 8GB )	DS	-	-	15-17-17-35	1.2	•	•	
<b>CORSAIR</b>	CMD8GX4M2A2666C15(Ver4.23)(XMP)	8GB ( 2x 4GB )	DS	-	-	15-17-17-35	1.2	•		
<b>CORSAIR</b>	CMK128GX4M8A2666C16(Ver5.39)(XMP)	128GB ( 8x 16GB )	DS	-	-	16-18-18-35	1.2	•	•	•

<b>CORSAIR</b>	CMK16GX4M2A2666C16(Ver5.29)(XMP)	16GB ( 2x 8GB )	DS	-	-	16-18-18-35	1.2	•	
<b>CORSAIR</b>	CMK16GX4M2A2666C16(Ver5.30)(XMP)	16GB ( 2x 8GB )	SS	-	-	16-18-18-35	1.2	•	
<b>CORSAIR</b>	CMK16GX4M4A2666C15(Ver4.23)(XMP)	16GB ( 4x 4GB )	SS	-	-	15-17-17-35	1.2	•	•
<b>CORSAIR</b>	CMK16GX4M4A2666C15(Ver5.29)(XMP)	16GB ( 4x 4GB )	SS	-	-	15-17-17-35	1.2	•	•
<b>CORSAIR</b>	CMK16GX4M4A2666C16(Ver3.21)(XMP)	16GB ( 4x 4GB )	SS	-	-	16-18-18-35	1.2	•	•
<b>CORSAIR</b>	CMK16GX4M4A2666C16(Ver4.23)(XMP)	16GB ( 4x 4GB )	SS	-	-	16-18-18-35	1.2	•	•
<b>CORSAIR</b>	CMK16GX4M4A2666C16(Ver5.29)(XMP)	16GB ( 4x 4GB )	SS	-	-	16-18-18-35	1.2	•	•
<b>CORSAIR</b>	CMK32GX4M2A2666C16(Ver4.31)(XMP)	32GB ( 2x 16GB )	DS	-	-	16-18-18-35	1.2	•	
<b>CORSAIR</b>	CMK32GX4M2A2666C16R(Ver3.31)(XMP)	32GB ( 2x 16GB )	DS	-	-	16-18-18-35	1.2	•	
<b>CORSAIR</b>	CMK32GX4M4A2666C15(Ver4.23)(XMP)	32GB ( 4x 8GB )	DS	-	-	15-17-17-35	1.2	•	•
<b>CORSAIR</b>	CMK32GX4M4A2666C15(Ver5.29)(XMP)	32GB ( 4x 8GB )	DS	-	-	15-17-17-35	1.2	•	•
<b>CORSAIR</b>	CMK32GX4M4A2666C16(Ver3.20)(XMP)	32GB ( 4x 8GB )	DS	-	-	16-18-18-35	1.2	•	•
<b>CORSAIR</b>	CMK32GX4M4A2666C16(Ver3.21)(XMP)	32GB ( 4x 8GB )	DS	-	-	16-18-18-35	1.2	•	•
<b>CORSAIR</b>	CMK32GX4M4A2666C16(Ver5.29)(XMP)	32GB ( 4x 8GB )	DS	-	-	16-16-18-35	1.2	•	•
<b>CORSAIR</b>	CMK32GX4M4A2666C16(Ver5.30)(XMP)	32GB ( 4x 8GB )	SS	-	-	16-18-18-35	1.2	•	•
<b>CORSAIR</b>	CMK32GX4M4A2666C16R(Ver4.23)(XMP)	32GB ( 4x 8GB )	DS	-	-	16-18-18-35	1.2	•	•
<b>CORSAIR</b>	CMK64GX4M4A2666C16(Ver3.31)(XMP)	64GB ( 4x 16GB )	DS	-	-	16-18-18-35	1.2	•	•
<b>CORSAIR</b>	CMK64GX4M4A2666C16(Ver4.31)(XMP)	64GB ( 4x 16GB )	DS	-	-	16-18-18-35	1.2	•	•
<b>CORSAIR</b>	CMU32GX4M4A2666C16(Ver5.30)(XMP)	32GB ( 4x 8GB )	SS	-	-	16-18-18-35	1.2	•	•
<b>crucial</b>	BLE4G4D26AFEA.8FAD (XMP)	4GB	SS	-	-	16-17-17-36	1.2	•	•
<b>crucial</b>	BLE8G4D26AFEA.16FAD(XMP)	8GB	DS	-	-	16-17-17-36	1.2	•	•
<b>crucial</b>	BLS16G4D26BFSC.16FBD(XMP)	16GB	DS	-	-	16-18-18-38	1.2	•	•
<b>crucial</b>	BLS4G4D26BFSC.8FBR2(XMP)	4GB	SS	-	-	16-18-18-38	1.2	•	•

<b>crucial</b>	BLS8G4D26BFSC.16FBR2(XMP)	8GB	DS	-	-	16-18-18-38	1.2	•	•
<b>crucial</b>	BLT4G4D26AFTA.8FADG(XMP)	16GB ( 4x4GB )	SS	-	-	16-17-17-36	1.2	•	•
<b>crucial</b>	BLT4G4D26AFTA.8FADG(XMP)	4GB	SS	-	-	16-17-17-36	1.2	•	•
<b>crucial</b>	BLT8G4D26AFTA.16FAD(XMP)	32GB ( 4x 8GB )	DS	-	-	16-17-17-36	1.2	•	•
<b>crucial</b>	BLT8G4D26AFTA.16FAD(XMP)	8GB	DS	-	-	16-17-17-36	1.2	•	•
<b>G.SKILL</b>	F4-2666C15Q-16GRR(XMP)	16GB ( 4x 4GB )	SS	-	-	15-15-15-35	1.2	•	•
<b>G.SKILL</b>	F4-2666C15Q-16GVR	16GB ( 4x 4GB )	SS	-	-	15-15-15-35	1.2	•	•
<b>G.SKILL</b>	F4-2666C15Q-16GVB	16GB ( 4x 4GB )	SS	-	-	15-15-15-35	1.2	•	•
<b>G.SKILL</b>	F4-2666C15Q-16GVG	16GB ( 4x 4GB )	SS	-	-	15-15-15-35	1.2	•	•
<b>G.SKILL</b>	F4-2666C15Q-16GVK	16GB ( 4x 4GB )	SS	-	-	15-15-15-35	1.2	•	•
<b>G.SKILL</b>	F4-2666C15Q-16GVS	16GB ( 4x 4GB )	SS	-	-	15-15-15-35	1.2	•	•
<b>G.SKILL</b>	F4-2666C15Q-16GRK	16GB ( 4x 4GB )	SS	-	-	15-15-15-35	1.2	•	•
<b>G.SKILL</b>	F4-2666C15Q-16GRB	16GB ( 4x 4GB )	SS	-	-	15-15-15-35	1.2	•	•
<b>G.SKILL</b>	F4-2666C15Q-32GRR(XMP)	32GB ( 4x 8GB )	DS	-	-	15-15-15-35	1.2	•	•
<b>G.SKILL</b>	F4-2666C15Q-32GVR	32GB ( 4x 8GB )	DS	-	-	15-15-15-35	1.2	•	•
<b>G.SKILL</b>	F4-2666C15Q-32GVB	32GB ( 4x 8GB )	DS	-	-	15-15-15-35	1.2	•	•
<b>G.SKILL</b>	F4-2666C15Q-32GVG	32GB ( 4x 8GB )	DS	-	-	15-15-15-35	1.2	•	•
<b>G.SKILL</b>	F4-2666C15Q-32GVK	32GB ( 4x 8GB )	DS	-	-	15-15-15-35	1.2	•	•
<b>G.SKILL</b>	F4-2666C15Q-32GVS	32GB ( 4x 8GB )	DS	-	-	15-15-15-35	1.2	•	•
<b>G.SKILL</b>	F4-2666C15Q-32GRK	32GB ( 4x 8GB )	DS	-	-	15-15-15-35	1.2	•	•
<b>G.SKILL</b>	F4-2666C15Q-32GRB	32GB ( 4x 8GB )	DS	-	-	15-15-15-35	1.2	•	•
<b>G.SKILL</b>	F4-2666C16Q2-128GVK(XMP)	128GB ( 8x 16GB )	DS	-	-	16-16-16-36	1.2	•	•
<b>G.SKILL</b>	F4-2666C16Q2-128GVR	128GB ( 8x 16GB )	DS	-	-	16-16-16-36	1.2	•	•

#### 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
<b>ADATA</b>	AD4U2400W4G17-B	4GB	SS	SK Hynix	H5AN4G8N AFRTFC	15-15-15-35	1.2	•	•	
<b>ADATA</b>	AD4U2400W8G17-B	8GB	DS	SK Hynix	H5AN4G8N AFRTFC	15-15-15-35	1.2	•	•	
<b>ADATA</b>	AX4U2400316G16-DRD(XMP)	16GB	DS	-	-	16-16-16-39	1.2	•	•	
<b>ADATA</b>	AX4U2400316G16-SBF(XMP)	16GB	DS	-	-	16-16-16-36	1.2	•	•	
<b>ADATA</b>	AX4U240038G16-SBF(XMP)	8GB	SS	-	-	16-16-16-39	1.2	•	•	
<b>ADATA</b>	AX4U2400W8G16-BRZ(XMP)	8GB	DS	-	-	16-16-16-39	1.2	•	•	
<b>ADATA</b>	AX4U2400W8G16-DRD(XMP)	8GB	DS	-	-	16-16-16-39	1.2	•	•	
<b>Apacer</b>	78.B1GMS.4050B	16GB (4x 4GB )	SS	Samsung	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)(X MP)	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)(X MP)	16GB ( 4x 4GB )	SS	-	-	14-16-16-31	1.2	•	•
CORSAIR	CMK32GX4M4A2400C14(Ver4.23)(X MP)	32GB ( 4x 8GB )	DS	-	-	14-16-16-31	1.2	•	•
CORSAIR	CMK32GX4M4A2400C16(Ver3.31)(X MP)	32GB ( 4x 8GB )	SS	-	-	16-16-16-39	1.2	•	•
CORSAIR	CMK64GX4M4A2400C14(Ver3.31)(X MP)	64GB ( 4x 16GB )	DS	-	-	14-16-16-31	1.2	•	•
CORSAIR	CMK64GX4M4A2400C14(Ver4.31)(X MP)	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	•	•
Foxtconn	FEU8GN51208KC2400H	8GB	DS	Nanya	NT5AD512M 8B1-FM	17-17-17-39	-	•	•
G.SKILL	F4-2400C14Q2-128GRK(XMP)	128GB ( 8x 16GB )	DS	-	-	14-14-14-34	1.2	•	•

<b>G.SKILL</b>	F4-2400C15Q-16GRR(XMP)	16GB ( 4x 4GB )	SS	-	-	15-15-15-35	1.2	●	●
<b>G.SKILL</b>	F4-2400C15Q-16GVR	16GB ( 4x 4GB )	SS	-	-	15-15-15-35	1.2	●	●
<b>G.SKILL</b>	F4-2400C15Q-16GVB	16GB ( 4x 4GB )	SS	-	-	15-15-15-35	1.2	●	●
<b>G.SKILL</b>	F4-2400C15Q-16GVG	16GB ( 4x 4GB )	SS	-	-	15-15-15-35	1.2	●	●
<b>G.SKILL</b>	F4-2400C15Q-16GVK	16GB ( 4x 4GB )	SS	-	-	15-15-15-35	1.2	●	●
<b>G.SKILL</b>	F4-2400C15Q-16GVS	16GB ( 4x 4GB )	SS	-	-	15-15-15-35	1.2	●	●
<b>G.SKILL</b>	F4-2400C15Q-16GRK	16GB ( 4x 4GB )	SS	-	-	15-15-15-35	1.2	●	●
<b>G.SKILL</b>	F4-2400C15Q-16GRB	16GB ( 4x 4GB )	SS	-	-	15-15-15-35	1.2	●	●
<b>G.SKILL</b>	F4-2400C15Q2-128GRK(XMP)	128GB ( 8x 16GB )	DS	-	-	15-15-15-35	1.2	●	● ●
<b>G.SKILL</b>	F4-2400C15Q2-128GVK(XMP)	128GB ( 8x 16GB )	DS	-	-	15-15-15-35	1.2	●	● ●
<b>G.SKILL</b>	F4-2400C15Q2-128GVR	128GB ( 8x 16GB )	DS	-	-	15-15-15-35	1.2	●	● ●
<b>G.SKILL</b>	F4-2400C15Q2-64GRK(XMP)	64GB ( 8x 8GB )	DS	-	-	15-15-15-35	1.2	●	● ●
<b>G.SKILL</b>	F4-2400C15Q-32GRR(XMP)	32GB ( 4x 8GB )	DS	-	-	15-15-15-35	1.2	●	●
<b>G.SKILL</b>	F4-2400C15Q-32GVR	32GB ( 4x 8GB )	DS	-	-	15-15-15-35	1.2	●	●
<b>G.SKILL</b>	F4-2400C15Q-32GVB	32GB ( 4x 8GB )	DS	-	-	15-15-15-35	1.2	●	●
<b>G.SKILL</b>	F4-2400C15Q-32GVG	32GB ( 4x 8GB )	DS	-	-	15-15-15-35	1.2	●	●
<b>G.SKILL</b>	F4-2400C15Q-32GVK	32GB ( 4x 8GB )	DS	-	-	15-15-15-35	1.2	●	●
<b>G.SKILL</b>	F4-2400C15Q-32GVS	32GB ( 4x 8GB )	DS	-	-	15-15-15-35	1.2	●	●
<b>G.SKILL</b>	F4-2400C15Q-32GRK	32GB ( 4x 8GB )	DS	-	-	15-15-15-35	1.2	●	●
<b>G.SKILL</b>	F4-2400C15Q-32GRB	32GB ( 4x 8GB )	DS	-	-	15-15-15-35	1.2	●	●
<b>GeIL</b>	GFR416GB2400C16S(XMP)	16GB	SS	-	-	16-16-16-36	1.2	●	●
<b>GeIL</b>	GFR432GB2400C16D(XMP)	16GB	SS	-	-	16-16-16-36	1.2	●	●
<b>GeIL</b>	GLR464GB2400C14QC(XMP)	64GB ( 4x 16GB )	DS	-	-	14-14-14-35	1.2	●	●
<b>GeIL</b>	GPR416GB2400C15QC(XMP)	16GB ( 4x 4GB )	SS	-	-	15-15-15-35	1.2	●	●
<b>GeIL</b>	GPR432GB2400C15QC(XMP)	32GB ( 4x 8GB )	DS	-	-	15-15-15-35	1.2	●	●
<b>GeIL</b>	GPR432GB2400C16QC(XMP)	32GB ( 4x 8GB )	SS	-	-	16-16-16-36	1.2	●	●
<b>Hyper X</b>	HX424C12PB2K4/16	16GB ( 4x 4GB )	SS	-	-	12-13-13-35	1.2	●	●
<b>Hyper X</b>	HX424C12SB2/4(XMP)	4GB	SS	-	-	12-14-14-35	1.35	●	●
<b>Hyper X</b>	HX424C12SB2/8(XMP)	8GB	DS	-	-	12-14-14-35	1.35	●	●
<b>Hyper X</b>	HX424C12SB2K2/16(XMP)	16GB ( 2x 8GB )	DS	-	-	12-14-14-35	1.35	●	●
<b>Hyper X</b>	HX424C12SB2K2/16(XMP)	16GB ( 2x 8GB )	DS	Nanya	NT5AD512M 8B1-GN	12-14-14-35	1.35	●	●
<b>Hyper X</b>	HX424C12SB2K4/16(XMP)	16GB ( 4x 4GB )	SS	-	-	12-14-14-35	1.35	●	●
<b>Hyper X</b>	HX424C12SB2K4/32(XMP)	32GB ( 4x 8GB )	DS	-	-	12-14-14-35	1.35	●	●
<b>Hyper X</b>	HX424C12SB2K4/32(XMP)	32GB ( 4x 8GB )	DS	Nanya	NT5AD512M 8B1-GN	12-14-14-35	1.35	●	●
<b>Hyper X</b>	HX424C15B2K4/32(XMP)	32GB ( 4x 8GB )	SS	-	-	15-15-15-35	1.2	●	●
<b>Hyper X</b>	HX424C15FB/4	4GB	SS	-	-	15-15-5-35	1.2	●	●
<b>Hyper X</b>	HX424C15FB/8(XMP)	8GB	SS	-	-	15-15-15-35	1.2	●	●

<b>Hyper X</b>	HX424C15FB/8(XMP)	8GB	DS	-	-	15-15-15-35	1.2	•	
<b>Hyper X</b>	HX424C15FBK2/16	32GB ( 2x 16GB )	DS	-	-	15-15-15-35	1.2	•	
<b>Hyper X</b>	HX424C15FBK2/8	8GB ( 2x 4GB )	SS	-	-	15-15-5-35	1.2	•	
<b>Hyper X</b>	HX424C15FBK4/16	16GB ( 4x 4GB )	SS	-	-	15-15-5-35	1.2	•	•
<b>Hyper X</b>	HX424C15FBK4/16	16GB ( 4x4GB )	SS	-	-	15-15-15-35	1.2	•	•
<b>Hyper X</b>	HX424C15FBK4/32	32GB ( 4x 8GB )	DS	-	-	15-15-15-35	1.2	•	
<b>Hyper X</b>	HX424C15FBK4/64	64GB ( 4x 16GB )	DS	-	-	15-15-15-35	1.2	•	
<b>Kingston</b>	KVR24N17D8/16	16GB	DS	Micron	D9SRJ	17-17-17-39	1.2	•	•
<b>Kingston</b>	KVR24N17D8/8	8GB	DS	Micron	D9TGG	17-17-17-39	1.2	•	•
<b>Kingston</b>	KVR24N17S8/4	4GB	SS	Micron	D9TGG	17-17-17-39	1.2	•	•
<b>Kingston</b>	KVR24N17S8/8	8GB	SS	Micron	D9TBH	17-17-17-39	1.2	•	•
<b>Kingston</b>	KVR24N17S8/8	8GB	SS	-	-	17-17-17-39	1.2	•	•
<b>Klevv</b>	IM44GU48N24-FFFHAB(XMP)	4GB	SS	-	-	15-15-15-35	1.2	•	•
<b>Klevv</b>	IM44GU48N24-FFFHAZ(XMP)	4GB	SS	-	-	15-15-15-35	1.2	•	•
<b>Klevv</b>	IM48GU88N24-FFFHMB(XMP)	8GB	SS	-	-	15-15-15-35	1.2	•	•
<b>Klevv</b>	IM48GU88N24-FFFHMZ(XMP)	8GB	SS	-	-	15-15-15-35	1.2	•	•
<b>Klevv</b>	IM4AGU88N24-FFFHMB(XMP)	16GB	DS	-	-	15-15-15-35	1.2	•	•
<b>Klevv</b>	IM4AGU88N24-FFFHMZ(XMP)	16GB	DS	-	-	15-15-15-35	1.2	•	•
<b>Micron</b>	MTA16ATF2G64AZ-2G3B1	16GB	DS	Micron	D9TBH	17-17-17-39	1.2	•	•
<b>panram</b>	W4U2400PS-8G	8GB	SS	panram	DTCCH912 G2	14-14-14-31	-	•	•
<b>PATRIOT</b>	PSD416G24002	16GB	DS	Samsung	K4A8G085W B	17-17-17-39	1.2	•	•
<b>PATRIOT</b>	PSD44G240081	4GB	SS	Samsung	K4A4G085W E	16-16-16-39	1.2	•	•
<b>PATRIOT</b>	PSD44G240081	4GB	SS	PATRIOT	PM5128D4B U-083	16-16-16-39	1.2	•	
<b>PATRIOT</b>	PSD48G240081	8GB	SS	Samsung	K4A8G085W B	17-17-17-39	1.2	•	•
<b>PATRIOT</b>	PV432G240C5QK(XMP)	32GB ( 4x 8GB )	SS	-	-	15-15-15-35	1.2	•	•
<b>PATRIOT</b>	PVE416G240C5KBL(XMP)	16GB ( 2x 8GB )	SS	-	-	15-15-15-35	-	•	•
<b>PATRIOT</b>	PVE48G240C5KRD(XMP)	8GB ( 2x 4GB )	SS	-	-	15-15-15-35	-	•	
<b>SK Hynix</b>	HMA81GU6AFR8N-UH	8GB	SS	SK Hynix	H5AN8GBN AFRUHC	17-17-17-39	-	•	•
<b>SK Hynix</b>	HMA82GU6AFR8N-UH	16GB	DS	SK Hynix	H5AN8GBN AFRUHC	17-17-17-39	-	•	•
<b>Team</b>	TCD44G2400C14BK(XMP)	4GB	SS	SK Hynix	H5AN4GBN AFRTFC	14-16-16-31	1.2	•	
<b>Team</b>	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	T4D10248HT-24	15-15-15-35	1.2	•	•
Team	TDTWD48G2400HC15A01	8GB	SS	Team	T4D10248HT-24	15-15-15-35	1.2	•	•

<b>Team</b>	TDTBD48G2400HC15A01	8GB	SS	Team	T4D10248H T-24	15-15-15-35	1.2	•	•
<b>Team</b>	TFWD416G2400C15BBK(XMP)	16GB	DS	Team	PP020-093E	15-17-17-35	1.2	•	
<b>Team</b>	TDTRD464G2400HC15BQC01	64GB(16GB*4)	DS	Team	PP020-093E	15-17-17-35	1.2	•	
<b>Team</b>	TDTWD464G2400HC15BQC01	64GB(16GB*4)	DS	Team	PP020-093E	15-17-17-35	1.2	•	
<b>Team</b>	TDTBD464G2400HC15BQC01	64GB(16GB*4)	DS	Team	PP020-093E	15-17-17-35	1.2	•	
<b>Team</b>	TDTRD432G2400HC15BDC01	32GB(16GB*2)	DS	Team	PP020-093E	15-17-17-35	1.2	•	
<b>Team</b>	TDTWD432G2400HC15BDC01	32GB(16GB*2)	DS	Team	PP020-093E	15-17-17-35	1.2	•	
<b>Team</b>	TDTBD432G2400HC15BDC01	32GB(16GB*2)	DS	Team	PP020-093E	15-17-17-35	1.2	•	
<b>Team</b>	TDTRD416G2400HC15B01	16GB	DS	Team	PP020-093E	15-17-17-35	1.2	•	
<b>Team</b>	TDTWD416G2400HC15B01	16GB	DS	Team	PP020-093E	15-17-17-35	1.2	•	
<b>Team</b>	TDTBD416G2400HC15B01	16GB	DS	Team	PP020-093E	15-17-17-35	1.2	•	
<b>V-color</b>	TC48G24S817-IMS	8GB	SS	-	-	17-17-17-39	1.2	•	•
<b>V-color</b>	TD4G8C17-UH	4GB	SS	V-color	DW3J0460H M	15-15-15-36	1.2	•	•
<b>V-color</b>	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
<b>Apacer</b>	78.B1GM3.AF00B	16GB (4x 4GB )	SS	SK Hynix	H5AN4G8N MFRTFC	15-15-15-36	1.2	•	•	
<b>Apacer</b>	78.C1GM3.AF10B	32GB (4x 8GB )	DS	SK Hynix	H5AN4G8N MFRTFC	15-15-15-36	1.2	•	•	
<b>Apacer</b>	AHU08GGB13CGT7G (EK.08G2R.KDC)	8GB	DS	Apacer	-	15-15-15-36	1.2	•		
<b>Apacer</b>	AHU08GGB13CGU7G (EK.08G2R.GDC)	8GB	SS	Apacer	-	15-15-15-36	1.2	•		
<b>Apacer</b>	AU08GGB13CDYBGC (EL.08G2R.GDM)	8GB		Apacer	-	15-15-15-36	1.2	•		
<b>CENTURY MICRO INC</b>	CD8G-D4U2133	8GB	DS	SK Hynix	H5AN4G8N MFRTFC	15-15-15-36	-	•	•	
<b>CENTURY MICRO INC</b>	CK8GX4-D4U2133	32GB ( 4x 8GB )	DS	SK hynix	H5AN4G8N MFRTFC	15-15-15-35	1.2	•	•	
<b>CORSAIR</b>	CMD16GX4M4B2133C10(Ver3.20)(X MP)	16GB ( 4x 4GB )	SS	-	-	10-12-12-31	1.35	•	•	
<b>CORSAIR</b>	CMD16GX4M4B2133C10(Ver3.20)(X MP)	16GB ( 4x 4GB )	SS	-	-	10-12-12-31	1.35	•		

<b>CORSAIR</b>	CMK16GX4M4A2133C13(Ver4.23)(XMP)	16GB ( 4x 4GB )	SS	-	-	13-15-15-28	1.2	●	●
<b>CORSAIR</b>	CMK32GX4M2A2133C13(Ver4.31)(XMP)	32GB ( 2x 16GB )	DS	-	-	13-15-15-28	1.2	●	
<b>CORSAIR</b>	CMK32GX4M4A2133C13(Ver4.23)(XMP)	32GB ( 4x 8GB )	DS	-	-	13-15-15-28	1.2	●	●
<b>CORSAIR</b>	CMK32GX4M4A2133C15(Ver3.20)	32GB ( 4x 8GB )	DS	-	-	15-15-15-36	1.2	●	●
<b>CORSAIR</b>	CMK32GX4M4A2133C15(Ver5.29)	32GB ( 4x 8GB )	DS	-	-	15-15-15-36	1.2	●	●
<b>CORSAIR</b>	CMK64GX4M8A2133C13(Ver3.20)(XMP)	64GB ( 8x 8GB )	DS	-	-	13-15-15-28	1.2	●	●
<b>CORSAIR</b>	CMV16GX4M1A2133C15	16GB	DS	-	-	15-15-15-36	1.2	●	●
<b>CORSAIR</b>	CMV16GX4M1A2133C15	16GB	DS	-	-	15-15-15-36	-	●	●
<b>CORSAIR</b>	CMV4GX4M1A2133C15	4GB	SS	-	-	15-15-15-36	1.2	●	● ●
<b>CORSAIR</b>	CMV8GX4M1A2133C15	8GB	DS	-	-	15-15-15-36	1.2	●	●
<b>crucial</b>	CT16G4DFD8213.16FB1	16GB	DS	Micron	D9TBH	15-15-15-36	1.2	●	● ●
<b>crucial</b>	CT4G4DFS8213.8FA2	4GB	SS	Micron	D9RGQ	15-15-15-36	1.2	●	●
<b>crucial</b>	CT4G4DFS8213.8FB1	4GB	SS	-	-	15-15-15-36	1.2	●	● ●
<b>crucial</b>	CT8G4DFS8213.8FB1	8GB	SS	-	-	15-15-15-36	1.2	●	●
<b>Footeonn</b>	FEU4GN51208JC2133F	4GB	SS	Nanya	NT5AD512M8B1-FM	15-15-15-36	-	●	●
<b>G.SKILL</b>	F4-2133C15Q-16GRR	16GB ( 4x 4GB )	SS	-	-	15-15-15-35	1.2	●	●
<b>G.SKILL</b>	F4-2133C15Q-16GVR	16GB ( 4x 4GB )	SS	-	-	15-15-15-35	1.2	●	●
<b>G.SKILL</b>	F4-2133C15Q-16GVB	16GB ( 4x 4GB )	SS	-	-	15-15-15-35	1.2	●	●
<b>G.SKILL</b>	F4-2133C15Q-16GVG	16GB ( 4x 4GB )	SS	-	-	15-15-15-35	1.2	●	●
<b>G.SKILL</b>	F4-2133C15Q-16GVK	16GB ( 4x 4GB )	SS	-	-	15-15-15-35	1.2	●	●
<b>G.SKILL</b>	F4-2133C15Q-16GVS	16GB ( 4x 4GB )	SS	-	-	15-15-15-35	1.2	●	●
<b>G.SKILL</b>	F4-2133C15Q-16GRK	16GB ( 4x 4GB )	SS	-	-	15-15-15-35	1.2	●	●
<b>G.SKILL</b>	F4-2133C15Q-16GRB	16GB ( 4x 4GB )	SS	-	-	15-15-15-35	1.2	●	●
<b>G.SKILL</b>	F4-2133C15Q2-128GVK	128GB ( 8x 16GB )	DS	-	-	15-15-15-35	1.2	●	●
<b>G.SKILL</b>	F4-2133C15Q2-128GVR	128GB ( 8x 16GB )	DS	-	-	15-15-15-35	1.2	●	●
<b>G.SKILL</b>	F4-2133C15Q2-64GRR	64GB ( 8x 8GB )	DS	-	-	15-15-15-35	1.2	●	● ●
<b>G.SKILL</b>	F4-2133C15Q2-64GRB	64GB ( 8x 8GB )	DS	-	-	15-15-15-35	1.2	●	● ●
<b>G.SKILL</b>	F4-2133C15Q-32GRR	32GB ( 4x 8GB )	DS	-	-	15-15-15-35	-	●	
<b>G.SKILL</b>	F4-2133C15Q-32GVR	32GB ( 4x 8GB )	DS	-	-	15-15-15-35	1.2	●	
<b>G.SKILL</b>	F4-2133C15Q-32GVB	32GB ( 4x 8GB )	DS	-	-	15-15-15-35	1.2	●	
<b>G.SKILL</b>	F4-2133C15Q-32GVG	32GB ( 4x 8GB )	DS	-	-	15-15-15-35	1.2	●	
<b>G.SKILL</b>	F4-2133C15Q-32GVK	32GB ( 4x 8GB )	DS	-	-	15-15-15-35	1.2	●	
<b>G.SKILL</b>	F4-2133C15Q-32GVS	32GB ( 4x 8GB )	DS	-	-	15-15-15-35	1.2	●	
<b>G.SKILL</b>	F4-2133C15Q-32GRK	32GB ( 4x 8GB )	DS	-	-	15-15-15-35	1.2	●	
<b>G.SKILL</b>	F4-2133C15Q-32GRB	32GB ( 4x 8GB )	DS	-	-	15-15-15-35	1.2	●	

<b>Gell</b>	GPR416GB2133C15QC	16GB ( 4x 4GB )	SS	-	-	15-15-15-36	1.2	•		
<b>Gell</b>	GPR432GB2133C15QC	32GB ( 4x 8GB )	SS	-	-	15-15-15-36	1.2	•		
<b>Hyper X</b>	HX421C13SB/4(XMP)	4GB	SS	-	-	13-13-13-36	1.2	•	•	
<b>Hyper X</b>	HX421C13SB/8(XMP)	8GB	DS	-	-	13-13-13-36	1.2	•	•	
<b>Hyper X</b>	HX421C13SBK2/16(XMP)	16GB ( 2x 8GB )	DS	-	-	13-13-13-36	1.2	•		
<b>Hyper X</b>	HX421C13SBK2/8(XMP)	8GB ( 2x 4GB )	SS	-	-	13-13-13-36	1.2	•		
<b>Hyper X</b>	HX421C13SBK4/16(XMP)	16GB ( 4x 4GB )	SS	-	-	13-13-13-36	1.2	•	•	
<b>Hyper X</b>	HX421C13SBK4/32(XMP)	32GB ( 4x 8GB )	DS	-	-	13-13-13-36	1.2	•	•	
<b>Hyper X</b>	HX421C14FB/4	4GB	SS	-	-	14-14-14-35	1.2	•	•	
<b>Hyper X</b>	HX421C14FB/8	8GB	DS	-	-	14-14-14-35	1.2	•	•	
<b>Hyper X</b>	HX421C14FB2K4/32(XMP)	32GB ( 4x 8GB )	SS	-	-	14-14-14-35	1.2	•	•	
<b>Hyper X</b>	HX421C14FBK2/16	16GB ( 2x 8GB )	DS	-	-	14-14-14-35	1.2	•		
<b>Hyper X</b>	HX421C14FBK2/8	8GB ( 2x 4GB )	SS	-	-	14-14-14-35	1.2	•		
<b>Hyper X</b>	HX421C14FBK4/16	16GB ( 4x 4GB )	SS	-	-	14-14-14-35	1.2	•	•	
<b>Hyper X</b>	HX421C14FBK4/32	32GB ( 4x 8GB )	DS	-	-	14-14-14-35	1.2	•	•	
<b>Hyper X</b>	HX421C14FBK4/64	64GB ( 4x 16GB )	DS	-	-	15-15-15-35	1.2	•	•	
<b>Hyper X</b>	HX421C14FBK8/64	64GB ( 8x 8GB )	DS	-	-	14-14-14-35	1.2	•	•	
<b>Kingston</b>	KVR21N15D8/16	16GB	DS	Micron	D9TBH	15-15-15-36	1.2	•	•	•
<b>Kingston</b>	KVR21N15D8/8	8GB	DS	SK Hynix	H5AN4G8N AFR	15-15-15-36	1.2	•	•	
<b>Kingston</b>	KVR21N15D8/8	8GB	DS	SK hynix	H5AN4G8N MFRTFC	15-15-15-37	1.2	•	•	
<b>Kingston</b>	KVR21N15S8/4	4GB	SS	SK Hynix	H5AN4G8N AFR	15-15-15-36	1.2	•	•	
<b>Kingston</b>	KVR21N15S8/4	4GB	SS	SK Hynix	H5AN4G8N AFRTFC	15-15-15-36	1.2	•	•	
<b>Kingston</b>	KVR21N15S8/4	4GB	SS	SK Hynix	H5AN4G8N MFRTFC	15-15-15-37	1.2	•	•	
<b>Klevv</b>	IM44GU48N21-FFFHAB(XMP)	4GB	SS	-	-	15-15-15-35	1.2	•	•	
<b>Klevv</b>	IM48GU88N21-FFFHMB(XMP)	8GB	SS	-	-	15-15-15-35	1.2	•	•	
<b>Klevv</b>	IM4AGU88N21-FFFHMB(XMP)	16GB	DS	-	-	15-15-15-35	1.2	•	•	
<b>Klevv</b>	KM4C4GX4N-2133-15-15-15-35-0	4GB	SS	-	-	15-15-15-35	1.2	•	•	
<b>Klevv</b>	KM4C4GX4N-2133-15-15-15-35-1	16GB ( 4x 4GB )	SS	-	-	15-15-15-35	1.2	•	•	
<b>Klevv</b>	KM4C8GX4N-2133-15-15-15-35-0	8GB	DS	-	-	15-15-15-35	1.2	•	•	•
<b>Klevv</b>	KM4C8GX4N-2133-15-15-15-35-1	32GB ( 4x 8GB )	DS	-	-	15-15-15-35	1.2	•	•	
<b>Micron</b>	MTA16ATF2G64AZ-2G1B1	16GB	DS	Micron	D9TBH	15-15-15-36	1.2	•	•	•
<b>Micron</b>	MTA8ATF1G64AZ-2G1B1	8GB	SS	-	-	15-15-15-36	1.2	•	•	
<b>panram</b>	W4U2133PS-8G	8GB	SS	panram	DTCCH872 HA2	16-16-16-36	-	•	•	•



SanMax	SMD-4G28HP-21P	4GB	SS	SK Hynix	H5AN4G8N MFRFC	15-15-15-37	-	•	•	
SanMax	SMD-8G28HP-21P	8GB	DS	SK Hynix	H5AN4G8N MFRFC	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 AFRFC	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 MFRFC	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 MFRFC	15-15-15-36	1.2	•	•	
Team	TED48GM2133C15BK	8GB	DS	SK hynix	H5AN4G8N MFRFC	15-15-15-36	1.2	•	•	

<b>Team</b>	TED432G2133C15QC01	32GB(8GB*4)	DS	SK hynix	H5AN4G8N MFRTFC	15-15-15-36	1.2	•	•	
<b>Team</b>	TPRD432G2133HC15QC01	32GB(8GB*4)	DS	SK hynix	H5AN4G8N MFRTFC	15-15-15-36	1.2	•	•	
<b>Team</b>	TPD432G2133HC15QC01	32GB(8GB*4)	DS	SK hynix	H5AN4G8N MFRTFC	15-15-15-36	1.2	•	•	
<b>Team</b>	TED416G2133C15DC01	16GB(8GB*2)	DS	SK hynix	H5AN4G8N MFRTFC	15-15-15-36	1.2	•	•	
<b>Team</b>	TPRD416G2133HC15DC01	16GB(8GB*2)	DS	SK hynix	H5AN4G8N MFRTFC	15-15-15-36	1.2	•	•	
<b>Team</b>	TPD416G2133HC15DC01	16GB(8GB*2)	DS	SK hynix	H5AN4G8N MFRTFC	15-15-15-36	1.2	•	•	
<b>Team</b>	TED48G2133C1501	8GB	DS	SK hynix	H5AN4G8N MFRTFC	15-15-15-36	1.2	•	•	
<b>Team</b>	TPRD48G2133HC1501	8GB	DS	SK hynix	H5AN4G8N MFRTFC	15-15-15-36	1.2	•	•	
<b>Team</b>	TPD48G2133HC1501	8GB	DS	SK hynix	H5AN4G8N MFRTFC	15-15-15-36	1.2	•	•	
<b>UMAX</b>	84G44G93MC-21OMCALGF15	4GB	SS	Micron	D9RGQ	15-15-15-36	-	•	•	•
<b>UMAX</b>	84G48G93MC-21OMCGNGF15	8GB	DS	Micron	D9RGQ	15-15-15-36	-	•	•	
<b>V-color</b>	TC48G21S815-IMS	8GB	SS	-	-	15-15-15-36	1.2	•	•	

#### 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.

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

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

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

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

-The default DIMM frequency depends on its Serial Presence Detect (SPD), which is the standard way of accessing information from a memory module.

Under the default state, some memory modules for overclocking may operate at a lower frequency than the vendor-marked value.

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

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