

B150-PLUS

DDR4 2133 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	DIMM socket support (Optional)		
								1 DIMM	2 DIMM	4 DIMM
SAMSUNG	M378A5143DB0--CPB	4G(4GB*1)	SS	SEC 428 BCPB	K4A4G085WD	13-13-13-33	1.5V	●	●	●
SAMSUNG	M378A1G43DB0--CPB	8G(8GB*1)	DS	SEC 428 BCPB	K4A4G085WD	13-13-13-33	1.5V	●	●	●
G.SKILL	F4-2133C15Q-32GRK	32GB(8GB*4)	DS	N/A	Heat-Sink Package	15-15-15-35	1.2V	●	●	●
G.SKILL	F4-2133C15Q-16GRB	16GB(4GB*4)	SS	N/A	Heat-Sink Package	15-15-15-35	1.2V	●	●	●
GLOWAY	PC4-17000	4G	SS	N/A	Heat-Sink Package	15-15-15-35	1.2V	●	●	●
KINGSTON	HX421C13PBK4/16	16GB(4GB*4)	SS	N/A	Heat-Sink Package		1.2V	●	●	●
KINGSTON	HX421C14FB/8	8G(8GB*1)	DS	N/A	Heat-Sink Package	14-14-14-35	1.2V	●	●	●
KINGSTON	HX421C14FBK4/32	32GB(8GB*4)	DS	N/A	Heat-Sink Package		1.2V	●	●	●
PANRAM	PUD42133C138G4NJW	32GB(8GB*4)	DS	N/A	Heat-Sink Package	13-13-13-35	1.2V	●	●	●
PANRAM	PUD42133C134G4NJW	16GB(4GB*4)	SS	N/A	Heat-Sink Package	13-13-13-35	1.2V	●	●	●
CORSAIR	CMK16GX4M4A2133C15	16GB(4GB*4)	SS	N/A	Heat-Sink Package	15-15-15-36	1.2V	●	●	●
CORSAIR	CMV4GX4M1A2133C15	4G(4GB*1)	SS	N/A	4GA72Z9RGR	13-13-34-33	1.5V	●	●	●
CORSAIR	CMV8GX4M1A2133C15	8G(8GB*1)	DS	SEC 446 BCPB	K4A4G085WD	13-13-13-33	1.5V	●	●	●
CRUCIAL	MTA8ATF51264AZ-2G1A1	4G	SS	MICRON	4QA77D9RCQ	13-13-13-33	1.2V	●	●	●
TEAM	TED48GM2133C15BK	8G	DS	SEC 437BCBP	K4A4G085WD	15-15-15-36	1.2V	●	●	●
TEAM	TED44GM2133C15BK	4G	SS	SEC 443 BCBP	K4A4G085WD	15-15-15-36	1.2V	●	●	●
APACER	78.C1GM3.AF10B	8G	DS	SK HYNIX	H5AN4G8NMFR	14-14-14-33	1.5V	●	●	●
APACER	AU04GGB13CDBGC	4G	SS	SK HYNIX	H5AN4G8NMFR	14-14-14-33	1.5V	●	●	●
TEKISM	T4U2133B8G15-SAD	8G	DS	SEC 446 BCPB	K4A4G085WD			●	●	●
KINGSTON	KVR21N15S8/4	4G(4GB*1)	SS	SK HYNIX	H5AN4G8NMFR		1.2V	●	●	●
KINGSTON	KVR21N15D8/8	8G(8GB*1)	DS	SK HYNIX	H5AN4G8NMFR		1.2V	●	●	●
CENTURY	PX4-17000	8G	DS	SK HYNIX	H5AN4G8NMFR			●	●	●

DDR4 2400 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	DIMM socket support (Optional)		
								1 DIMM	2 DIMM	4 DIMM
ADATA	AX4U2400W8G16-DRZ	32GB(8GB*4)	DS	N/A	Heat-Sink Package	16-16-16	1.2V	●	●	●

G.SKILL	F4-2400C15Q-32GRB	32GB(8GB*4)	DS	N/A	Heat-Sink Package	15-15-15-35	1.2V	●	●	●
G.SKILL	F4-2400C14Q2-128GRK	128GB(16GB*8)	DS	N/A	Heat-Sink Package	14-14-14-34	1.2V	●	●	●
G.SKILL	F4-2400C14Q-16GRK	16GB(4GB*4)	SS	N/A	Heat-Sink Package	14-14-14-34	1.2V	●	●	●
G.SKILL	F4-2400C15Q-16GRR	16GB(4GB*4)	SS	N/A	Heat-Sink Package	15-15-15-35	1.2V	●	●	●
PATRIOT	PX416G240C5QK	16GB(4GB*4)	SS	N/A	Heat-Sink Package	15-15-15-35	1.2V	●	●	●
GLOWAY	PC4-19200	4G	SS	GLOWAY	512X8DDR4	16-16-16-35	1.2V	●	●	●
TEAM	TED44GM2400C16BK	4G	SS	SEC 437 BCPB	K4A4G085WD	16-16-16-39	1.2V	●	●	●
TEAM	TED48GM2400C16BK	8G	DS	SEC 443 BCPB	K4A4G085WD	16-16-16-39	1.2V	●	●	●
PANRAM	PUD42400C154G4NJW	16GB(4GB*4)	SS	N/A	Heat-Sink Package	15-15-15-35	1.2V	●	●	●
PANRAM	PUD42400C158G4NJW	8G	DS	N/A	Heat-Sink Package	15-15-15-35	1.2V	●	●	●
CORSAIR	CMK32GX4M4A2400C14	32GB(8GB*4)	DS	N/A	Heat-Sink Package	14-16-16-31	1.2V	●	●	●
CRUCIAL	BLS4K4G4D240FSA	16GB(4GB*4)	SS	N/A	Heat-Sink Package	16-16-16-39	1.2V	●	●	●
CRUCIAL	CT16G4RFS424A.18FA1	16G	DS	MICRON	5JA47D9SRK		1.2V			
ADATA	AX4U2400W4G16-DRZ	8GB(4GB*2)	SS	N/A	Heat-Sink Package	16-16-16	1.2V	●	●	●
GEIL	GPR416GB2400C15QC	16GB(4GB*4)	SS	N/A	Heat-Sink Package	15-15-15-35	1.2V	●	●	●
MUSHKIN	997199F	8GB(4GB*2)	DS	N/A	Heat-Sink Package	15-15-15-35-50	1.2V			
KINGSTON	HX424C15FBK4/32	32GB(8GB*4)	DS	N/A	Heat-Sink Package	15-15-15-35-57	1.2V	●	●	●
KINGSTON	HX424C15FBK4/16	16GB(4GB*4)	SS	N/A	Heat-Sink Package		1.2V	●	●	●
APACER	78.C1GMA.AF30B	8G	DS	SK HYNIX	H5AN4G8NMFR	16-16-16-36	1.2V	●	●	●
APACER	78.B1GMA.AF20B	4G	SS	SK HYNIX	H5AN4G8NMFR	16-16-16-36	1.2V	●	●	

DDR4 2666 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	DIMM socket support (Optional)		
								1 DIMM	2 DIMM	4 DIMM
CORSAIR	CMK16GX4M4A2666C16	16GB(4GB*4)	SS	N/A	Heat-Sink Package	16-16-18-35	1.2V	●	●	●
CORSAIR	CMD32GX4M4A2666C15(Ver5.29)	32GB(8GB*4)	DS	N/A	Heat-Sink Package	15-17-17-35	1.2V	●	●	●
CORSAIR	CMD128GX4M8A2666C15	128GB(16GB*8)	DS	N/A	Heat-Sink Package	15-18-18-35	1.2V	●	●	●
CRUCIAL	BLE4G4D26AFEA.8FAD	8G	SS	N/A	Heat-Sink Package	16-16-17-36	1.2V	●	●	●

CRUCIAL	BLE8G4D26AFE.16FAD	16G	DS	N/A	Heat-Sink Package	16-16-17-36	1.2V	●	●	●
G.SKILL	F4-2666C15Q-16GRR	16GB(4GB*4)	SS	N/A	Heat-Sink Package	15-15-15-35	1.2V	●	●	●
PATRIOT	PX416G266C5QK	16GB(4GB*4)	SS	N/A	Heat-Sink Package	15-15-15-35	1.2V	●	●	●
G.SKILL	F4-2666C16Q2-64GRB	64GB(8GB*8)	DS	N/A	Heat-Sink Package	16-16-16-36	1.2V	●	●	●
TEAM	TCD48G2666C15ABK	8G	DS	SK HYNIX	H5AN4G8NMFR	15-15-15-35	1.2V	●	●	●
TEAM	TCD44G2666C15ABK	4G	SS	SEC 443 BCPB	K4A4G085WD	15-15-15-35	1.2V	●	●	●
MUSHKIN	997192F	8GB(4GB*2)	SS	N/A	Heat-Sink Package	15-15-15-35-50	1.2V	●	●	●
KINGSTON	HX426C13PBK4/32	32GB(8GB*4)	DS	N/A	Heat-Sink Package	13-14-14-39-60	1.35V	●	●	●
KINGSTON	HX426C15FBK4/32	32GB(8GB*4)	DS	N/A	Heat-Sink Package		1.2V	●	●	●
KINGSTON	HX426C15FBK4/16	16GB(4GB*4)	SS	N/A	Heat-Sink Package		1.2V	●	●	●

DDR4 2800 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	DIMM socket support (Optional)		
								1 DIMM	2 DIMM	4 DIMM
CORSAIR	CMK16GX4M4A2800C16	16GB(4GB*4)	SS	N/A	Heat-Sink Package	16-18-18-36	1.2V	●	●	●
G.SKILL	HX428C14PB2K4/16	16GB(4GB*4)	SS	N/A	Heat-Sink Package		1.35V	●	●	●
G.SKILL	F4-2800C16Q-16GRK	16GB(4GB*4)	SS	N/A	Heat-Sink Package	16-16-16-36	1.2V	●	●	
PATRIOT	PX416G280C6QK	16GB(4GB*4)	SS	N/A	Heat-Sink Package	16-18-18-36	1.2V	●	●	●
GLOWAY	PC4-22400	4G	SS	SK HYNIX	H5AN4G8NMFR	16-16-16-36	1.2V	●	●	●
PANRAM	PUD42800C164G4NJW	16GB(4GB*4)	SS	N/A	Heat-Sink Package	16-18-18-36	1.25V	●	●	●
MUSHKIN	994207F	16GB(4GB*4)	SS	N/A	Heat-Sink Package	16-16-16-36-52	1.2V	●	●	●
KINGSTON	HX428C14PBK4/32	32GB(8GB*4)	DS	N/A	Heat-Sink Package	14-15-15-39-63	1.35V	●	●	●

DDR4 3000 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	DIMM socket support (Optional)		
								1 DIMM	2 DIMM	4 DIMM
KINGSTON	HX430C15PB2K4/16	16GB(4GB*4)	SS	N/A	Heat-Sink Package		1.35V	●	●	●
G.SKILL	F4-3000C15Q-16GRR	16GB(4GB*4)	SS	N/A	Heat-Sink Package	15-15-15-35	1.35V	●	●	●
TEAM	TCD48G3000C16ABK	8G	DS	TEAM	T4D5128HT-30	16-16-16-36	1.35V	●	●	●
TEAM	TCD44G3000C16ABK	4G	SS	TEAM	T4D5128HT-30	16-16-16-36	1.35V	●	●	●

PANRAM	PUD43000C154G4NJW	16GB(4GB*4)	SS	N/A	Heat-Sink Package	15-17-17-35	1.35V	•	•	•
KINGSTON	HX430C15PBK4/32	32GB(8GB*4)	DS	N/A	Heat-Sink Package	15-16-16-39-65	1.35V	•	•	•

DDR4 3100 Qualified Vendors List (QVL)

Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	DIMM socket support (Optional)		
								1 DIMM	2 DIMM	4 DIMM
PANRAM	PUD43200C164G4NJW	16GB(4GB*4)	SS	N/A	Heat-Sink Package	16-18-18-39	1.35V	•	•	•
MUSHKIN	997202F	8GB(4GB*2)	SS	N/A	Heat-Sink Package	16-16-16-36-50	1.35V	•	•	•
G.SKILL	F4-3300C16Q-16GRKD	16GB(4GB*4)	SS	N/A	Heat-Sink Package	16-16-16-36	1.35V	•	•	•
G.SKILL	F4-3333C16Q-16GRKD	16GB(4GB*4)	SS	N/A	Heat-Sink Package	16-16-16-36	1.35V	•	•	•
ADATA	AX4U3333W4G16-QGZ	32GB(8GB*4)	SS	N/A	Heat-Sink Package	16-1-16-16	1.35V	•	•	•
GEIL	GLWR416GB3400C16AQC	16GB(4GB*4)	SS	N/A	Heat-Sink Package	16-18-18-36	1.35V	•	•	•
G.SKILL	F4-3400C16Q-16GRBD	16GB(4GB*4)	SS	N/A	Heat-Sink Package	16-18-18-38	1.35V	•	•	•
G.SKILL	F4-3466C16Q-16GVK	16GB(4GB*4)	SS	N/A	Heat-Sink Package	16-18-18-38	1.35V	•	•	•
G.SKILL	F4-3600-C17Q-16GVK	16GB(4GB*4)	SS	N/A	Heat-Sink Package	17-18-18-38	1.35V	•	•	•

4 DIMM Slots

- **1 DIMM**: Supports one module inserted in any slot as Single-channel memory configuration
- **2 DIMM**: Supports one pair of modules inserted into either the **blue** slots or the **black** slots as one pair of Dual-channel memory configuration
- **4 DIMM**: Supports 4 modules inserted into both the **blue** and **black** slots as two pairs of Dual-channel memory configuration

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

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

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

*Supports Intel® Extreme Memory Profile (XMP)

*Due to Intel® chipset limitation, DDR4 2133 MHz and higher memory modules on XMP mode will run at the maximum transfer rate of DDR4 2133 Mhz.

* The maximum memory frequency supported varies by processor