

Qualified Vendors List (QVL)B450M-DS3H

DDR4 3200MHz														
Module Supplier	Density	# of Ranks x DRAM devices	Module P./N.	SS/DS	Chip Brand	Chip P./N.	Timing	Voltage	Memory socket support				XMP	Native
									1	2	4			
HyperX	8GB	1Rx8	HX432C16PB3K4/32	SS	Hynix		16-18-18	1.35v	V	V	V	v	2133	
			HX432C16PB3K2/16	SS	Hynix		16-18-18	1.35v	V	V	V	v	2133	
CORSAIR	4GB	1Rx8	CMD16GX4M4C3200C16 ver4.24	SS	Samsung		16-18-18-36	1.35v	V	V	V	v	2133	
CORSAIR	8GB	1Rx8	CMD64GX4M8B3200C16	SS			16-18-18-36	1.35v	V	V	V	v	2133	
CORSAIR	16GB	2Rx8	CMK64GX4M8B3200C16	DS			16-18-18-36	1.35v	V	V	V	v	2133	
G.SKILL	8GB	1Rx8	F4-3200C14Q-32GFX	SS			14-14-14-34	1.35v	V	V	V	v	2133	
G.SKILL	16GB	2Rx8	F4-3200C16Q-64GVK	DS	Samsung		16-18-18-38	1.35v	V	V	V	v	2133	
ADATA	8GB	1Rx8	AX4U320038G16-BRS	SS			16-18-18	1.35v	V	V	V	v	2133	
ADATA	8GB	1Rx8	AX4U320038G16-SRS	SS			16-18-18	1.35v	V	V	V	v	2133	
ADATA	8GB	1Rx8	AX4U320038G16-DRS	SS			16-18-18	1.35v	V	V	V	v	2133	
ADATA	8GB	1Rx8	AX4U320038G16-QRS	SS			16-18-18	1.35v	V	V	V	v	2133	
GEIL	8GB	1Rx8	GAFY416GB3200C16ADC	SS			16-18-18-36	1.35v	V	V	V	v	2133	
GEIL	8GB	1Rx8	GAFY416GB3200C16ADC	SS			16-18-18-36	1.35v	V	V	V	v	2133	
PATRIOT	4GB	1Rx8	PV48G320C6K	SS			CL16	1.35v	V	V	V	v	2133	

DDR4 3000MHz														
Module Supplier	Density	# of Ranks x DRAM devices	Module P./N.	SS/DS	Chip Brand	Chip P./N.	Timing	Voltage	Memory socket support				XMP	Native
									1	2	4			
HyperX	4GB	1Rx8	HX430C15PB3K4/16	SS	Hynix		C15	1.35v				v	2133	
HyperX	4GB	1Rx8	HX430C15PB3K2/8	SS	Hynix		C15	1.35v	V	V		v	2133	
HyperX	8GB	1Rx8	HX430C15PB3K4/32	SS	Hynix		C15	1.35v				v	2133	
HyperX	8GB	1Rx8	HX430C15PB3K2/16	SS	Hynix		C15	1.35v	V	V		v	2133	
HyperX	8GB	1Rx8	HX430C15PB3/8	SS	Hynix		C15	1.35v				v	2133	
HyperX	16GB	2Rx8	HX430C15PB3K8/128	DS	Hynix		C15	1.35v				v	2133	
HyperX	16GB	2Rx8	HX430C15PB3K4/64	DS	Hynix		C15	1.35v			V	v	2133	
HyperX	16GB	2Rx8	HX430C15PB3K2/32	DS	Hynix		C15	1.35v				v	2133	
CORSAIR	4GB	1Rx8	CMD16GX4M4B3000C14	SS			14-16-16-35	1.35v	V	V		v	2133	
CORSAIR	8GB	2Rx8	CMD32GX4M4C3000C15 ver4.24	DS	Samsung		15-17-17-35	1.35v	V	V		v	2133	
CORSAIR	8GB	2Rx8	CMU32GX4M4C3000C15	DS			15-17-17-35	1.35v		V		v	2133	
CORSAIR	8GB	2Rx8	CMU32GX4M4C3000C15R	DS			15-17-17-35	1.35v		V		v	2133	
CORSAIR	8GB	2Rx8	CMX86G3000C15K4-CN ver4.24	DS	Samsung		15-17-17-35	1.35v			V	v	2133	
CORSAIR	8GB	1Rx8	CMD32GX4M4C3000C15 ver5.30	SS	Hynix		15-17-17-35	1.35v	V	V		v	2133	
CORSAIR	8GB	1Rx8	CMR32GX4M4C3000C15 ver4.31	SS	Samsung		15-17-17-35	1.35v	V	V		v	2133	
CORSAIR	8GB	1Rx8	CMD16GX4M4B3000C15 ver5.30	SS	Hynix		15-17-17-35	1.35v	V	V		v	2133	
CORSAIR	8GB	1Rx8	CMR16GX4M2C3000C15 ver4.31	SS	Samsung		15-17-17-35	1.35v	V	V		v	2133	
CORSAIR	8GB	1Rx8	CMK16GX4M2B3000C15 ver3.32	SS	Micron		15-17-17-35	1.35v	V	V		v	2133	
CORSAIR	8GB	1Rx8	CMD32GX4M4C3000C15 ver3.32	SS	Micron		15-17-17-35	1.35v	V	V	V	v	2133	
CORSAIR	8GB	1Rx8	CMK16GX4M2C3000C16 ver3.31	SS	Micron		16-18-18-36	1.35v	V	V		v	2133	
CORSAIR	8GB	1Rx8	CMR16GX4M2C3000C15 ver5.30	SS	Hynix		15-17-17-35	1.35v	V	V		v	2133	
CORSAIR	16GB	2Rx8	CMU32GX4M2C3000C15R	DS			15-17-17-35	1.35v	V	V	V	v	2133	
CORSAIR	16GB	2Rx8	CMU32GX4M2C3000C15	DS			15-17-17-35	1.35v	V	V	V	v	2133	
CORSAIR	16GB	2Rx8	CMR32GX4M2C3000C15 ver4.31	DS	Samsung		15-17-17-35	1.35v	V	V	V	v	2133	
CRUCIAL	8GB	1Rx8	BLT84D30BET4K.C8FD	SS	Micron		16-18-18-38	1.35v	V	V	V	v	2400	
G.SKILL	8GB	1Rx8	F4-3000C15Q2-64GVR	SS			15-15-15-35	1.35v	V	V	V	v	2133	
G.SKILL	8GB	1Rx8	F4-3000C16D-16GTZR	SS			16-18-18-38	1.35v	V	V	V	v	2133	
G.SKILL	16GB	2Rx8	F4-3000C14Q2-128GVKD	DS			14-14-14-34	1.35v	V	V	V	v	2133	
ADATA	4GB	1Rx8	AX4U3000W4G16-BWZ	SS			16-16-16	1.35v				v	2133	
ADATA	4GB	1Rx8	AX4U3000W4G16-DWZ	SS			16-16-16	1.35v	V	V		v	2133	
ADATA	4GB	1Rx8	AX4U3000W4G16-QWZ	SS			16-16-16	1.35v				v	2133	
ADATA	8GB	1Rx8	AX4U300038G16-BBZ	SS	Hynix		16-18-18	1.35v				v	2133	
ADATA	8GB	1Rx8	AX4U300038G16-DBZ	SS	Hynix		16-18-18	1.35v	V	V		v	2133	
ADATA	8GB	1Rx8	AX4U300038G16-QBZ	SS	Hynix		16-18-18	1.35v	V	V		v	2133	
ADATA	8GB	1Rx8	AX4U300038G16-BBG	SS	Hynix		16-18-18	1.35v				v	2133	
ADATA	8GB	1Rx8	AX4U300038G16-SBG	SS	Hynix		16-18-18	1.35v				v	2133	
ADATA	8GB	1Rx8	AX4U300038G16-DBG	SS	Hynix		16-18-18	1.35v	V	V		v	2133	
ADATA	8GB	1Rx8	AX4U300038G16-QBG	SS	Hynix		16-18-18	1.35v				v	2133	
ADATA	8GB	1Rx8	AX4U300038G16-BRS	SS	Hynix		16-18-18	1.35v				v	2133	
ADATA	8GB	1Rx8	AX4U300038G16-SRS	SS	Hynix		16-18-18	1.35v		V		v	2133	
ADATA	8GB	1Rx8	AX4U300038G16-DRS	SS	Hynix		16-18-18	1.35v		V		v	2133	
ADATA	8GB	1Rx8	AX4U300038G16-QRS	SS	Hynix		16-18-18	1.35v		V		v	2133	
Apacer	8GB	1Rx8	AHU08GB30CUD7V	SS			16-16-16-36	1.35v	V	V		v	2133	
Apacer	8GB	1Rx8	AHU08GB30CKU8R (EK.16G.AZ.GJDK2)	SS			16-18-18-38	1.35v	V	V		v	2400	
GEIL	8GB	2Rx8	GPR416GB3000C15ADC	SS			15-17-17-35	1.35v	V	V		v	2133	
GEIL	8GB	1Rx8	GEX416GB3000C15ADC	SS			15-17-17-35	1.35v	V	V		v	2133	
KLEVV	4GB	1Rx8	KM4B4GX1A-3000-15-16-16-36-0	SS			15-16-16-36	1.35v	V	V		v	2400	
KLEVV	8GB	1Rx8	KM4B8GX1A-3000-15-16-16-36-0	SS			15-16-16-36	1.35v	V	V		v	2400	
KLEVV	8GB	1Rx8	KM4Z8GX1A-3000-15-16-16-36-1	SS			15-16-16-36	1.35v	V	V		v	2400	
Team	8GB	1Rx8	TF1D48G3000HC16CBK	SS			16-18-18-38	1.35v	V	V	V	v	2133	
V-Color	8GB	1Rx8	TL48G30S816B	SS			CL16	1.35v	V	V	V	v	2133	
V-Color	8GB	1Rx8	TL48G30S816RGB	SS			16-18-18-38	1.35v	V	V	V	v	2133	
Neo Forza	8GB	1Rx8	NMUD480E82-3000DC30	SS	Hynix		15-17-17-35	1.35v				v	2133	
Neo Forza	8GB	1Rx8	NMUD480E82-3000DA30	SS	Hynix		15-17-17-35	1.35v	V	V		v	2133	
Neo Forza	8GB	1Rx8	NMUD480E82-3000DB30	SS	Hynix		15-17-17-35	1.35v	V	V		v	2133	
Neo Forza	8GB	1Rx8	NMUD480E82-3000DD30	SS	Hynix		15-17-17-35	1.35v	V	V		v	2133	
Neo Forza	8GB	1Rx8	NMUD480E81-3000DC30	SS	Hynix		15-17-17-35	1.35v				v	2133	
Neo Forza	8GB	1Rx8	NMUD480E81-3000DA30	SS	Hynix		15-17-17-35	1.35v	V	V		v	2133	
Neo Forza	8GB	1Rx8	NMUD480E81-3000DB30	SS	Hynix		15-17-17-35	1.35v	V	V		v	2133	
Neo Forza	8GB	1Rx8	NMUD480E81-3000DD30	SS	Hynix		15-17-17-35	1.35v	V	V		v	2133	

DDR4 2800MHz														
Module Supplier	Density	# of Ranks x DRAM devices	Module P./N.	SS/DS	Chip Brand	Chip P./N.	Timing	Voltage	Memory socket support				XMP	Native
									1	2	4			
CORSAIR	16GB	2Rx8	CMK128GX4M8Z2933C16 ver 4.31	DS	Samsung		16-18-18-36	1.35v	V	V	V	v	2133	

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Module Supplier	Density	# of Ranks x DRAM devices	Module P./N.	SS/DS	Chip Brand	Chip P./N.	Timing	Voltage	Memory socket support				XMP	Native
									1	2	4			
CORSAIR	4GB	1Rx8	CMK16GX4M4A2800C16	SS	Hynix		16-18-18-36	1.2v				v	2133	
CORSAIR	4GB	1Rx8	CMK16GX4M4A2800C16R	SS	Hynix		16-18-18-36	1.2v	V	V		v	2133	
CORSAIR	4GB	1Rx8	CMK16GX4M4A2800C16B	SS	Hynix		16-18-18-36	1.2v				v	2133	
CORSAIR	8GB	2Rx8	CMK64GX4M8B2800C14	DS			14-16-16-36	1.35v	V	V	V	v	2133	
CORSAIR	8GB	2Rx8	CMD64GX4M8B2800C14	DS			14-16-16-36	1.35v	V	V	V	v	2133	
CORSAIR	16GB	2Rx8	CMD128GX4M8B2800C14 ver5.39	DS	Hynix		14-16-16-36	1.35v	V	V	V	v	2133	
CORSAIR	16GB	2Rx8	CMK64GX4M8B2800C14 ver 4.31	DS	Samsung		14-16-16-36	1.35v	V	V	V	v	2133	
G.SKILL	16GB	2Rx8	F4-2800C15Q2-128GRKD	DS			15-15-15-35	1.35v	V	V	V	v	2133	
KINGMAX	8GB	1Rx8	GLMG42F-18KIIA.CJBR4	SS				1.2v	V	V	V	v	2133	
PATRIOT	4GB	1Rx8	PVE48G280C6KRD	SS			CL16	1.2v	V	V	V	v	2133	
Team	4GB	1Rx8	TLRED416G2800HC16CQC01	SS			16-18-18-38	1.2v						

PATRIOT	8GB	2Rx8	PVE416G266C6KBL	DS			CL16	1.2v	V	V	V	v	2133
Panram	8GB	1Rx8	W4U2666PS-8G	SS			CL16	1.2v	V	V	V	v	2666
Panram	16GB	2Rx8	W4U2666PS-16G	DS			CL16	1.2v	V	V	V	v	2666
KLEVV	4GB	1Rx8	KMZ4GX1N-2666-15-15-15-35-1	SS			15-15-15-35	1.2v	V	V	V	v	2400
KLEVV	16GB	2Rx8	KMZ4GX1N-2666-15-15-15-35-1	DS			15-15-15-35	1.2v	V	V	V	v	2400
Team	4GB	1Rx8	TLRED416G2666HC15BQC01	SS			15-17-17-35	1.2v	V	V	V	v	2133
Team	4GB	1Rx8	TGDED416G2666HC15BQC01	SS			15-17-17-35	1.2v	V	V	V	v	2133
Team	4GB	1Rx8	TLRED48G2666HC15BDC01	SS			15-17-17-35	1.2v	V	V	V	v	2133
Team	4GB	1Rx8	TGDED48G2666HC15BDC01	SS			15-17-17-35	1.2v	V	V	V	v	2133
Team	4GB	1Rx8	TED416G2666C19QC01	SS			19-19-19-43	1.2v	V	V	V	v	2666
Team	4GB	1Rx8	TED48G2666C19DC01	SS			19-19-19-43	1.2v	V	V	V	v	2666
Team	4GB	1Rx8	TED44G2666C1901	SS			19-19-19-43	1.2v	V	V	V	v	2666
Team	8GB	2Rx8	TLRED432G2666HC15BQC01	DS			15-17-17-35	1.2v	V	V	V	v	2133
Team	8GB	2Rx8	TGDED432G2666HC15BQC01	DS			15-17-17-35	1.2v	V	V	V	v	2133
Team	8GB	2Rx8	THRD432G2666HC15BQC01	DS			15-17-17-35	1.2v	V	V	V	v	2133
Team	8GB	2Rx8	THRD432G2666HC15BQC01	DS			15-17-17-35	1.2v	V	V	V	v	2133
Team	8GB	2Rx8	THWD432G2666HC15BQC01	DS			15-17-17-35	1.2v	V	V	V	v	2133
Team	8GB	2Rx8	THBD432G2666HC15BQC01	DS			15-17-17-35	1.2v	V	V	V	v	2133
Team	8GB	2Rx8	TLRED416G2666HC15BDC01	DS			15-17-17-35	1.2v	V	V	V	v	2133
Team	8GB	2Rx8	TGDED416G2666HC15BDC01	DS			15-17-17-35	1.2v	V	V	V	v	2133
Team	8GB	2Rx8	THRD416G2666HC15BDC01	DS			15-17-17-35	1.2v	V	V	V	v	2133
Team	8GB	2Rx8	THWD416G2666HC15BDC01	DS			15-17-17-35	1.2v	V	V	V	v	2133
Team	8GB	2Rx8	THBD416G2666HC15BDC01	DS			15-17-17-35	1.2v	V	V	V	v	2133
Team	8GB	1Rx8	TED432G2666C19QC01	SS			19-19-19-43	1.2v	V	V	V	v	2666
Team	8GB	1Rx8	TED416G2666C19DC01	SS			19-19-19-43	1.2v	V	V	V	v	2666
Team	8GB	1Rx8	TED48G2666C1901	SS			19-19-19-43	1.2v	V	V	V	v	2666
Team	16GB	2Rx8	THRD464G2666HC15BQC01	DS			15-17-17-35	1.2v	V	V	V	v	2133
Team	16GB	2Rx8	THWD464G2666HC15BQC01	DS			15-17-17-35	1.2v	V	V	V	v	2133
Team	16GB	2Rx8	THBD464G2666HC15BQC01	DS			15-17-17-35	1.2v	V	V	V	v	2133
Team	16GB	2Rx8	THRD432G2666HC15BDC01	DS			15-17-17-35	1.2v	V	V	V	v	2133
Team	16GB	2Rx8	THBD432G2666HC15BDC01	DS			15-17-17-35	1.2v	V	V	V	v	2133
Team	16GB	2Rx8	TED464G2666C19QC01	DS			19-19-19-43	1.2v	V	V	V	v	2666
Team	16GB	2Rx8	TED432G2666C19DC01	DS			19-19-19-43	1.2v	V	V	V	v	2666
Team	16GB	2Rx8	TED416G2666C1901	DS			19-19-19-43	1.2v	V	V	V	v	2666

DDR4 2400MHz

Module Supplier	Density	# of Ranks x DRAM devs/cas	Module P/N.	SS/DS	Chip Brand	Chip P/N.	Timing	Voltage	Memory socket support				XMP	Native
									1	2	4			
HyperX	8GB	2Rx8	HX424C15FB/8	DS	SKhynix		C15	1.2v	V	V	V	v	2133	
HyperX	8GB	1Rx8	HX424C15FB2K/42	SS			C15	1.2v	V	V	V	v	2133	
HyperX	8GB	1Rx8	HX424C15FB2K/16	SS			C15	1.2v	V	V	V	v	2133	
HyperX	8GB	1Rx8	HX424C15FB2/8	SS			C15	1.2v	V	V	V	v	2133	
HyperX	16GB	2Rx8	HX424C15FBK/4/64	DS			C15	1.2v	V	V	V	v	2133	
HyperX	16GB	2Rx8	HX424C15FBK2/32	DS			C15	1.2v	V	V	V	v	2133	
HyperX	16GB	2Rx8	HX424C15FB/16	DS			C15	1.2v	V	V	V	v	2133	
Kingston	8GB	2Rx8	KVR24N17D8/8	DS	Micron		CL17	1.2v	V	V	V	v	2400	
Kingston	8GB	1Rx8	KVR24N17S8/8	SS	Micron		CL17	1.2v	V	V	V	v	2400	
Kingston	16GB	2Rx8	KVR24N17D8/16	DS	Micron		CL17	1.2v	V	V	V	v	2400	
CORSAIR	4GB	1Rx8	CMK16GX4MAA2400C14	SS	Samsung		14-16-16-31	1.2v	V	V	V	v	2133	
CORSAIR	4GB	1Rx8	CMK16GX4MAA2400C14B	SS	Samsung		14-16-16-31	1.2v	V	V	V	v	2133	
CORSAIR	4GB	1Rx8	CMK16GX4MAA2400C14R	SS	Samsung		14-16-16-31	1.2v	V	V	V	v	2133	
CORSAIR	4GB	1Rx8	CM16GX4MAA2400C14	SS	Samsung		14-16-16-31	1.2v	V	V	V	v	2133	
CORSAIR	4GB	1Rx8	CMK8GX4M2D2400C14 ver3.11	SS	Micron		14-16-16-31	1.2v	V	V	V	v	2133	
CORSAIR	8GB	2Rx8	CMK32GX4MAA2400C14	DS	Samsung		14-16-16-31	1.2v	V	V	V	v	2133	
CORSAIR	8GB	2Rx8	CMK32GX4MAA2400C14B	DS	Samsung		14-16-16-31	1.2v	V	V	V	v	2133	
CORSAIR	8GB	2Rx8	CMK32GX4MAA2400C14R	DS	Samsung		14-16-16-31	1.2v	V	V	V	v	2133	
CORSAIR	8GB	1Rx8	CM16GX4MAA2400C14 ver4.24	SS	Samsung		14-16-16-31	1.2v	V	V	V	v	2133	
CORSAIR	8GB	2Rx8	CMK64GX4MBA2400C14	DS			14-16-16-31	1.2v	V	V	V	v	2133	
CORSAIR	8GB	2Rx8	CMK32GX4MAA2400C16	SS			16-16-16-39	1.2v	V	V	V	v	2133	
CORSAIR	8GB	2Rx8	CMK32GX4MAA2400C16R	SS			16-16-16-39	1.2v	V	V	V	v	2133	
CORSAIR	8GB	1Rx8	CMK16GX4M2A2400C16	SS			16-16-16-39	1.2v	V	V	V	v	2133	
CORSAIR	8GB	1Rx8	CMK16GX4M2A2400C16R	SS			16-16-16-39	1.2v	V	V	V	v	2133	
CORSAIR	8GB	2Rx8	CM16GX4MAA2400C12	DS			12-14-14-28	1.2v	V	V	V	v	2133	
CORSAIR	8GB	2Rx8	CMK32GX4MAA2400C12	DS			12-14-14-28	1.2v	V	V	V	v	2133	
CORSAIR	8GB	1Rx8	CMK16GX4M2Z2400C16 ver3.31	SS	Micron		16-16-16-39	1.2v	V	V	V	v	2133	
CORSAIR	8GB	1Rx8	CMK16GX4M2Z2400C16 ver3.30	SS	Hynix		16-16-16-39	1.2v	V	V	V	v	2133	
CORSAIR	16GB	2Rx8	CMK64GX4MAA2400C14	DS			14-16-16-31	1.2v	V	V	V	v	2133	
CORSAIR	16GB	2Rx8	CM128GX4MBA2400C14	DS			14-16-16-31	1.2v	V	V	V	v	2133	
CORSAIR	16GB	2Rx8	CMK64GX4MAA2400C16 ver3.32	DS	Micron		16-16-16-39	1.2v	V	V	V	v	2133	
G.SKILL	4GB	1Rx8	F4-2400C15Q-16GRR	SS	Micron		15-15-15-35	1.2v	V	V	V	v	2133	
G.SKILL	8GB	2Rx8	F4-2400C15Q-32GRR	DS	Micron		15-15-15-35	1.2v	V	V	V	v	2133	
G.SKILL	8GB	2Rx8	F4-2400C15Q2-64GRK	DS			15-15-15-35	1.2v	V	V	V	v	2133	
G.SKILL	8GB	1Rx8	F4-2400C17S-8GBD	SS			17-17-17-39	1.2v	V	V	V	v	2400	
ADATA	4GB	1Rx8	AD4U2400W4G17-B	SS	Hynix			1.2v	V	V	V	v	2400	
ADATA	8GB	1Rx8	AX4U240038G16-BRZ	SS	Hynix		16-16-16	1.2v	V	V	V	v	2133	
ADATA	8GB	1Rx8	AX4U240038G16-DRZ	SS	Hynix		16-16-16	1.2v	V	V	V	v	2133	
ADATA	8GB	1Rx8	AX4U240038G16-QRZ	SS	Hynix		16-16-16	1.2v	V	V	V	v	2133	
ADATA	16GB	2Rx8	AX4U2400316G16-BRZ	DS	Hynix		16-16-16	1.2v	V	V	V	v	2133	
ADATA	16GB	2Rx8	AX4U2400316G16-DRZ	DS	Hynix		16-16-16	1.2v	V	V	V	v	2133	
ADATA	16GB	2Rx8	AX4U2400316G16-QRZ	DS	Hynix		16-16-16	1.2v	V	V	V	v	2133	
Apacer	8GB	2Rx8	AU08GB24CETBGC	DS			CL17	1.2v	V	V	V	v	2400	
Apacer	8GB	1Rx8	AHU08GB24CDU7G	SS			16-16-16-36	1.2v	V	V	V	v	2133	
Apacer	8GB	1Rx8	AU08GB24CEYBGC	SS			CL17	1.2v	V	V	V	v	2400	
Apacer	8GB	1Rx8	AHU08GB24CDU7S (EK.08G2T.GE.J)	SS			16-16-16-36	1.2v	V	V	V	v	2400	
CRUCIAL	8GB	2Rx8	BLS8G4D240FSB.16FARG	DS	Micron		16-16-16-39	1.2v	V	V	V	v	2400	
CRUCIAL	8GB	2Rx8	BLS8G4D240FSA.16FARG	DS	Micron		16-16-16-39	1.2v	V	V	V	v	2400	
CRUCIAL	8GB	1Rx8	CT8G4DF824A.8FB1	SS	Micron		CL17	1.2v	V	V	V	v	2400	
CRUCIAL	8GB	2Rx8	CT8G4WFD824A.8FB1	DS	Micron		CL17	1.2v	V	V	V	v	2400	
CRUCIAL	8GB	2Rx8	BL8G4D240FSB.16FAR	DS	Micron		16-16-16-39	1.2v	V	V	V	v	2400	
CRUCIAL	16GB	2Rx8	BLS16G4D240FSB.16FAD	DS	Micron		16-16-16-39	1.2v	V	V	V	v	2400	
CRUCIAL	16GB	2Rx8	CT16G4DFD824A.8FB1	SS	Micron		CL17	1.2v	V	V	V	v	2400	
CRUCIAL	16GB	2Rx8	CT16G4WFD824A.8FB1	DS	Micron		CL17	1.2v	V	V	V	v	2400	
GEIL	4GB	1Rx8	GP48GB2400C16DC	SS			16-16-16-36	1.2v	V	V	V	v	2133	
GEIL	8GB	1Rx16	GFY416GB2400C16DC	SS			16-16-16-36	1.2v	V	V	V	v	2133	
GEIL	8GB	1Rx8	GAMP416GB2400C16DC	SS			16-16-16-36	1.2v	V	V	V	v	2133	
GALAX	4GB	1Rx8	GAM4XLS240016JE164C	SS			16-16-16-36	1.2v	V	V	V	v	2133	
GALAX	4GB	1Rx8	HOF4BLM240012FD041C	SS			12-12-12-28	1.35v	V	V	V	v	2133	
KLEVV	4GB	1Rx8	KMZ4GX1N-2400-15-15-15-35-0	SS			15-15-15-35	1.2v	V	V	V	v	2400	
KLEVV	4GB	1Rx8	KMZ4GX1N-2400-15-15-15-35-1	SS			15-15-15-35	1.2v	V	V	V	v	2400	
KLEVV	8GB	1Rx8	KMZ28GX1N-2400-15-15-15-35-1	SS			15-15-15-35	1.2v	V	V	V	v	2400	
KLEVV	16GB	2Rx8	KMB16X1N-2400-15-15-15-35-0	DS			15-15-15-35	1.2v	V	V	V	v	2400	
KLEVV	16GB	2Rx8	KMZ16X1N-2400-15-15-15-35-0	DS			15-15-15-35	1.2v	V	V	V	v	2400	
KINGMAX	4GB	1Rx16	GLLF2F-DAKZIG CLBU Z11C	SS	Spectek		17-17-17-39	1.2v	V	V	V	v	2400	
KINGMAX	4GB	1Rx16	GLLF2F-DAKZIG CLBU Z11B	SS	Spectek		17-17-17-39	1.2v	V	V	V	v	2400	
KINGMAX	16GB	2Rx8	GLLH22F-18KIIA CFBU2 Z11B	DS	Spectek		17-17-17-39	1.2v	V	V	V	v	2400	
PATRIOT	4GB	1Rx8	PVE48G240C5KRD	SS			CL15	1.2v	V	V	V	v	2133	
PATRIOT	8GB	1Rx8	PVE416G240C5KRD	SS			CL15	1.2v	V	V	V	v	2133	

PATRIOT	8GB	1Rx8	PSD48G240081	SS				CL17	1.2v	V				V				2400
PATRIOT	16GB	2Rx8	PSD416G24002	DS				CL17	1.2v	V				V				2400
Team	8GB	2Rx8	TOTRD416G2400HC15ADC01	DS				15-15-35	1.2v	V				V			v	2133
Team	8GB	2Rx8	TDTWD416G2400HC15ADC01	DS				15-15-35	1.2v	V				V			v	2133
Team	8GB	2Rx8	TOTBD416G2400HC15ADC01	DS				15-15-35	1.2v	V				V			v	2133
Team	8GB	2Rx8	TOTRD48G2400HC15A01	DS				15-15-35	1.2v	V				V			v	2133
Team	8GB	2Rx8	TDTWD48G2400HC15A01	DS				15-15-35	1.2v	V				V			v	2133
Team	8GB	2Rx8	TOTBD48G2400HC15A01	DS				15-15-35	1.2v	V				V			v	2133
Team	8GB	1Rx8	TLGD432G2400HC14QC01	SS				14-16-31	1.2v	V				V			v	2133
Team	8GB	1Rx8	TLRED432G2400HC14QC01	SS				14-16-31	1.2v	V				V			v	2133
Team	8GB	1Rx8	TLGD416G2400HC14DC01	SS				14-16-31	1.2v	V				V			v	2133
Team	8GB	1Rx8	TLRED416G2400HC14DC01	SS				14-16-31	1.2v	V				V			v	2133
Team	8GB	1Rx8	TLGD48G2400HC1401	SS				14-16-31	1.2v	V				V			v	2133
Team	8GB	1Rx8	TLRED48G2400HC1401	SS				14-16-31	1.2v	V				V			v	2133
Team	8GB	1Rx8	TF3D48G2400HC15BBK	SS				15-17-35	1.2v	V				V			v	2133
Team	16GB	2Rx8	TED46G2400C16QC01	DS				16-16-39	1.2v	V				V				2400
Team	16GB	2Rx8	TPRD46G2400HC16QC01	DS				16-16-39	1.2v	V				V				2400
Team	16GB	2Rx8	TPD46G2400HC16QC01	DS				16-16-39	1.2v	V				V				2400
Team	16GB	2Rx8	TE432G2400C16DC01	DS				16-16-39	1.2v	V				V				2400
Team	16GB	2Rx8	TPRD432G2400HC16DC01	DS				16-16-39	1.2v	V				V				2400
Team	16GB	2Rx8	TPD432G2400HC16DC01	DS				16-16-39	1.2v	V				V				2400
Team	16GB	2Rx8	TE416G2400C1601	DS				16-16-39	1.2v	V				V				2400
Team	16GB	2Rx8	TPRD416G2400HC1601	DS				16-16-39	1.2v	V				V				2400
Team	16GB	2Rx8	TPD416G2400HC1601	DS				16-16-39	1.2v	V				V				2400
Panram	8GB	1Rx8	PUD42400C158G4NJW	SS				CL15	1.2v	V				V				2400
Samsung	4GB	1Rx16	M378A5244CB0-CRC	SS					1.2v	V				V				2400
Innodisk	8GB	2Rx8	M4C0-8GSSMCSJ	DS	Samsung				1.2v	V				V				2400
V-Color	8GB	2Rx8	TD8G16C17-UH	DS				CL17	1.2v	V				V				2400
V-Color	8GB	1Rx8	TC48G24S817	SS				CL17	1.2v	V				V				2400

DDR4 2133MHz

Module Supplier	Density	# of Ranks x DIMM devices	Module P/N.	SS/DS	Chip Brand	Chip P/N.	Timing	Voltage	Memory socket support				XMP	Native
									1	2	4	8		
HyperX	8GB	1Rx8	HX421C14FB2K4/32	SS			CL14	1.2v	V				v	v
HyperX	8GB	1Rx8	HX421C14FB2K2/16	SS			CL14	1.2v	V				v	v
HyperX	8GB	1Rx8	HX421C14FB2/8	SS			CL14	1.2v	V				v	v
HyperX	16GB	2Rx8	HX421C14FBK4/64	DS			CL14	1.2v	V				v	v
HyperX	16GB	2Rx8	HX421C14FBK2/32	DS			CL14	1.2v	V				v	v
HyperX	16GB	2Rx8	HX421C14FB/16	DS			CL14	1.2v	V				v	v
Kingston	4GB	1Rx8	KVR21E15S8/4	SS	SKhynix		CL15	1.2v	V				v	v
Kingston	4GB	1Rx8	KVR21E15S8/4	SS	SKhynix		CL15	1.2v	V				v	v
Kingston	4GB	1Rx8	KVR21E15S8/4	SS	SKhynix		CL15	1.2v	V				v	v
Kingston	8GB	2Rx8	KVR21N15D8/8	DS	SKhynix		CL15	1.2v	V				v	v
Kingston	8GB	2Rx8	KVR21E15D8/8HA	DS	SKhynix		CL15	1.2v	V				v	v
Kingston	16GB	2Rx8	KVR21N15D8/16	DS	Micron		CL15	1.2v	V				v	v
CORSAIR	4GB	1Rx8	CM16GX4M8B2133C10	SS			10-12-12-31	1.35v	V				v	v
CORSAIR	8GB	2Rx8	CMK64GX4M8A2133C13	DS			13-15-15-28	1.2v	V				v	v
CORSAIR	8GB	2Rx8	CMK64GX4M8A2133C13	DS			13-15-15-28	1.2v	V				v	v
CORSAIR	8GB	1Rx8	CMV6GX4M1A2133C15-ESS	SS	Samsung		C15	1.2v	V				v	v
CORSAIR	8GB	2Rx8	CMD32GX4M8B2133C10	DS			10-12-12-31	1.35v	V				v	v
CORSAIR	16GB	2Rx8	CMV16GX4M1A2133C15	DS			C15	1.2v	V				v	v
CORSAIR	16GB	2Rx8	CMK128GX4M8A2133C13	DS			13-15-15-28	1.2v	V				v	v
G.SKILL	4GB	1Rx8	F4-2133C15Q-16GRR	SS	Micron		15-15-35	1.2v	V				v	v
G.SKILL	8GB	2Rx8	F4-2133C15Q-32GRR	DS	Micron		15-15-35	1.2v	V				v	v
G.SKILL	8GB	1Rx8	F4-2133C15S-8GIS	SS			15-15-35	1.2v	V				v	v
CRUCIAL	4GB	1Rx8	CT4G4DFS213.C8FAR1	SS	Micron		CL15	1.2v	V				v	v
CRUCIAL	4GB	1Rx8	CT4G4WFS213.9FA1	SS	Micron		CL15	1.2v	V				v	v
CRUCIAL	4GB	1Rx8	CT4G4DFS213.8FA2	SS	Micron		CL15	1.2v	V				v	v
CRUCIAL	8GB	2Rx8	CT8G4WFD8213	DS	Micron		CL15	1.2v	V				v	v
CRUCIAL	8GB	2Rx8	CT8G4DFD8213.16FA2	DS	Micron		CL15	1.2v	V				v	v
CRUCIAL	8GB	2Rx8	CT8G4DFD8213.C16FAR11	DS	Micron		CL15	1.2v	V				v	v
CRUCIAL	8GB	1Rx8	CT8G4DFD8213.8FB1	SS	Micron		CL15	1.2v	V				v	v
CRUCIAL	16GB	2Rx8	CT16G4DFD8213.16FB1	DS	Micron		CL15	1.2v	V				v	v
GEIL	4GB	1Rx8	GPR416GB2133C15QC	SS			15-15-36	1.2v	V				v	v
GLOWAY	4GB	1Rx8	4G-2133	SS			15-15-35	1.2v	V				v	v
KLEVV	4GB	1Rx8	KMB4GX1N-2133-15-15-35-0	SS			15-15-35	1.2v	V				v	v
KLEVV	8GB	1Rx8	KMB8GX1N-2133-15-15-35-0	SS			15-15-35	1.2v	V				v	v
KLEVV	16GB	2Rx8	KMB16X1N-2133-15-15-35-0	DS			15-15-35	1.2v	V				v	v
Team	8GB	2Rx8	TE432G2133C15QC01	DS	SKhynix	HSAN4G8NMF8R 523V	15-15-36	1.2v	V				v	v
Team	8GB	2Rx8	TPRD432G2133HC15QC01	DS	SKhynix	HSAN4G8NMF8R 523V	15-15-36	1.2v	V				v	v
Team	8GB	2Rx8	TPD432G2133HC15QC01	DS	SKhynix	HSAN4G8NMF8R 523V	15-15-36	1.2v	V				v	v
Team	8GB	2Rx8	TE416G2133C15DC01	DS	SKhynix	HSAN4G8NMF8R 523V	15-15-36	1.2v	V				v	v
Team	8GB	2Rx8	TPRD416G2133HC15DC01	DS	SKhynix	HSAN4G8NMF8R 523V	15-15-36	1.2v	V				v	v
Team	8GB	2Rx8	TPD416G2133HC15DC01	DS	SKhynix	HSAN4G8NMF8R 523V	15-15-36	1.2v	V				v	v
Team	8GB	2Rx8	TE48G2133C1501	DS	SKhynix	HSAN4G8NMF8R 523V	15-15-36	1.2v	V				v	v
Team	8GB	2Rx8	TPRD48G2133HC1501	DS	SKhynix	HSAN4G8NMF8R 523V	15-15-36	1.2v	V				v	v
Team	8GB	2Rx8	TPD48G2133HC1501	DS	SKhynix	HSAN4G8NMF8R 523V	15-15-36	1.2v	V				v	v
Team	16GB	2Rx8	TE48G2133C150C01	DS	SKhynix	HSAN4G8NMF8R 523V	15-15-36	1.2v	V				v	v
Team	16GB	2Rx8	TPRD46G2133HC15QC01	DS	SKhynix	HSAN4G8NMF8R 523V	15-15-36	1.2v	V				v	v
Team	16GB	2Rx8	TPD46G2133HC15QC01	DS	SKhynix	HSAN4G8NMF8R 523V	15-15-36	1.2v	V				v	v
Team	16GB	2Rx8	TE432G2133C15DC01	DS	SKhynix	HSAN4G8NMF8R 523V	15-15-36	1.2v	V				v	v
Team	16GB	2Rx8	TPRD432G2133HC15DC01	DS	SKhynix	HSAN4G8NMF8R 523V	15-15-36	1.2v	V				v	v
Team	16GB	2Rx8	TPD432G2133HC15DC01	DS	SKhynix	HSAN4G8NMF8R 523V	15-15-36	1.2v	V				v	v
Team	16GB	2Rx8	TE416G2133C1501	DS	SKhynix	HSAN4G8NMF8R 523V	15-15-36	1.2v	V				v	v
Team	16GB	2Rx8	TPRD416G2133HC1501	DS	SKhynix	HSAN4G8NMF8R 523V	15-15-36	1.2v	V				v	v
Team	16GB	2Rx8	TPD416G2133HC1501	DS	SKhynix	HSAN4G8NMF8R 523V	15-15-36	1.2v	V				v	v
Panram	8GB	1Rx8	PUD42133C158G2V5	SS			CL15	1.2v	V				v	v
V-Color	8GB	1Rx8	TE48G21S815	SS	SKhynix		CL15	1.2v	V				v	v
V-Color	8GB	1Rx8	TC48G21S815-IMS	SS			CL15	1.2v	V				v	v
V-Color	16GB	2Rx8	TE416G21D815	DS	SKhynix		CL15	1.2v	V				v	v
V-Color	16GB	2Rx8	TE416G21D815	DS	SKhynix		CL15	1.2v	V				v	v
V-Color	16GB	2Rx8	TE416G21D815	DS	SKhynix		CL15	1.2v	V				v	v

* 2 DIMM: Supports one pair of modules inserted into the same color slots as one pair of Dual-channel memory configuration. Install the modules into **DDR4_1, DDR4_2** for better compatibility.

2 DIMM: 請將兩支記憶體模組安裝在同樣顏色記憶體插槽以啟動雙通道設定，並優先安裝在 **DDR4_1, DDR4_2** 插槽以確保更好的相容性

* When running XMP at **DDR4 2933 MHz or higher**, the system's stability depends on the CPU's capabilities.

當執行 XMP 至 **DDR4 2933MHz 或是更高**，系統的穩定性會依據 CPU 的效能而有所差異

* Memory modules listed as above is for reference only. Due to massive memory models in market, we can only verify some of them.

以下所列的記憶體模組僅供參考，因市面上的記憶體模組眾多，我們無法一一驗證

* When enabling Dual Channel mode with two or four memory modules, it is recommended that using the same capacity, brand, speed, and chips of memory modules and also installed in the same color of DDR4 slots.

若要安裝兩支或四支 DDR4 記憶體模組，建議您使用相同容量、廠牌、速度、顆粒等之記憶體模組。