

Qualified Vendors List (QVL) GA-A320MA-M.2

DDR4 2400MHz													
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	HX424C12SB2K4/16	SS	SKhynix		C12	1.35v	v	v		v	2133
HyperX	4GB	1Rx8	HX424C12SB2K2/8	SS	SKhynix		C12	1.35v	v	v		v	2133
HyperX	4GB	1Rx8	HX424C12SB2/4	SS	SKhynix		C12	1.35v	v			v	2133
HyperX	8GB	2Rx8	HX424C15FB/8	DS	SKhynix		C15	1.2v	v	v	v	v	2133
HyperX	8GB	1Rx8	HX424C15FB2K4/32	SS			C15	1.2v	v	v	v	v	2133
HyperX	8GB	1Rx8	HX424C15FB2K2/16	SS			C15	1.2v	v	v		v	2133
HyperX	8GB	1Rx8	HX424C15FB2/8	SS			C15	1.2v	v			v	2133
HyperX	16GB	2Rx8	HX424C15FBK4/64	DS			C15	1.2v	v	v	v	v	2133
HyperX	16GB	2Rx8	HX424C15FBK2/32	DS			C15	1.2v	v	v		v	2133
HyperX	16GB	2Rx8	HX424C15FB/16	DS			C15	1.2v	v			v	2133
HyperX	16GB	2Rx8	HX424C14SBK4/64	DS			C14	1.2v	v	v	v	v	2133
Kingston	4GB	1Rx8	KVR24N17S8/4	SS	Micron		CL17	1.2v	v	v	v	v	2400
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	8GB	2Rx8	CMK32GX4M4A2400C14	DS	Samsung		14-16-16-31	1.2v	v	v	v	v	2133
CORSAIR	8GB	2Rx8	CMK32GX4M4A2400C14B	DS	Samsung		14-16-16-31	1.2v	v	v	v	v	2133
CORSAIR	8GB	2Rx8	CMK32GX4M4A2400C14R	DS	Samsung		14-16-16-31	1.2v	v	v	v	v	2133
CORSAIR	8GB	1Rx8	CMD64GX4M8A2400C14 ver4.24	SS	Samsung		14-16-16-31	1.2v	v	v	v	v	2133
CORSAIR	8GB	2Rx8	CMK64GX4M8A2400C14	DS			14-16-16-31	1.2v	v	v	v	v	2133
CORSAIR	8GB	2Rx8	CMK32GX4M4A2400C16	SS			16-16-16-39	1.2v	v	v	v	v	2133
CORSAIR	8GB	2Rx8	CMK32GX4M4A2400C16R	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	2133
CORSAIR	8GB	1Rx8	CMK16GX4M2A2400C16R	SS			16-16-16-39	1.2v	v	v		v	2133
CORSAIR	8GB	2Rx8	CMD32GX4M4A2400C12	DS			12-14-14-28	1.2v	v	v	v	v	2133
CORSAIR	8GB	2Rx8	CMK32GX4M4A2400C12	DS			12-14-14-28	1.2v	v	v	v	v	2133
CORSAIR	16GB	2Rx8	CMK64GX4M4A2400C14	DS			14-16-16-31	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	16GB	2Rx8	F4-2400C14Q2-128GRK	DS			14-14-14-34	1.2v	v	v	v	v	2133
ADATA	4GB	1Rx8	AD4U2400W4G17-B	SS	Hynix			1.2v	v	v	v	v	2400
ADATA	8GB	2Rx8	AD4U2400W8G17-B	DS	Hynix			1.2v	v	v	v	v	2400
ADATA	16GB	2Rx8	AX4U2400316G16-BRD	DS	Hynix		16-16-16	1.2v	v			v	2133
ADATA	16GB	2Rx8	AX4U2400316G16-DRD	DS	Hynix		16-16-16	1.2v	v	v		v	2133
ADATA	16GB	2Rx8	AX4U2400316G16-QRD	DS	Hynix		16-16-16	1.2v	v	v		v	2133
Apacer	8GB	2Rx8	AU08GGB24CETBGC	DS			CL17	1.2v	v	v	v	v	2400
Apacer	8GB	1Rx8	AHU08GGB24CDU7G	SS			16-16-16-36		v	v	v	v	2133
Apacer	8GB	1Rx8	AU08GGB24CEYBGC	SS			CL17	1.2v	v	v	v	v	2400
Apacer	16GB	2Rx8	AHU16GGB24CDU7V	DS			16-16-16-36	1.2v	v	v	v	v	2133
Avexir	4GB	1Rx8	AVD4UZ124001604G-2COB	SS	Spektek		CL16	1.2v	v	v	v	v	2133
Avexir	4GB	1Rx8	AVD4UZ124001604G-4COR	SS	Spektek		16-16-16-36	1.2v	v	v	v	v	2133
			AVD4UZ124001604G-4COB						v	v	v	v	2133
			AVD4UZ124001604G-4COG						v	v	v	v	2133
			AVD4UZ124001604G-4COW						v	v	v	v	2133
			AVD4UZ124001604G-4COY						v	v	v	v	2133
			AVD4UZ124001604G-4COO						v	v	v	v	2133
			AVD4UZ124001604G-4CWW						v	v	v	v	2133
Avexir	8GB	2Rx8	AVD4UZ124001608G-4COR	DS	Micron		16-16-16-36	1.2v	v	v	v		2400
			AVD4UZ124001608G-4COB						v	v	v		2400
			AVD4UZ124001608G-4COG						v	v	v		2400
			AVD4UZ124001608G-4COW						v	v	v		2400
			AVD4UZ124001608G-4COY						v	v	v		2400
			AVD4UZ124001608G-4COO						v	v	v		2400
			AVD4UZ124001608G-4CWW						v	v	v		2400
Avexir	16GB	2Rx8	AVD4UZ124001616G-4CWW	DS	Micron		16-16-16-36	1.2v	v	v			2400
			AVD4UZ124001616G-4COB						v	v			2400
			AVD4UZ124001616G-4COG						v	v			2400
			AVD4UZ124001616G-4COW						v	v			2400
			AVD4UZ124001616G-4COY						v	v			2400
			AVD4UZ124001616G-4COO						v	v			2400
			AVD4UZ124001616G-4COR						v	v			2400
CRUCIAL	4GB	1Rx8	BLS4G4D240FSB.8FADG	SS	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	2400
CRUCIAL	8GB	1Rx8	CT8G4DFS824A.8FB1	SS	Micron		CL17	1.2v	v	v	v		2400
CRUCIAL	8GB	2Rx8	CT8G4WFD824A.18FB1	DS	Micron		CL17	1.2v	v	v	v	v	2400
CRUCIAL	8GB	2Rx8	BLS8G4D240FSB.16FAR	DS	Micron		16-16-16-39	1.2v	v	v	v	v	2400
CRUCIAL	16GB	2Rx8	CT16G4WFD824A.18FB1	DS	Micron		CL17	1.2v	v	v	v		2400
CRUCIAL	16GB	2Rx8	CT16G4WFD824A.18FB1	DS	Micron		CL17	1.2v	v	v	v		2400
GEIL	8GB	2Rx8	GPR432GB2400C15QC	DS			15-15-15-35	1.2v	v	v	v	v	2133
GALAX	4GB	1Rx8	HOF4BLBM240012FD041C	SS			12-12-12-28	1.35v	v	v	v	v	2133
KLEVV	4GB	1Rx8	KM4B4GX1N-2400-15-15-15-35-0	SS			15-15-15-35	1.2v	v	v	v	v	2400
KLEVV	4GB	1Rx8	KM4Z4GX1N-2400-15-15-15-35-1	SS			15-15-15-35	1.2v	v	v	v	v	2400
KLEVV	8GB	1Rx8	KM4B8GX1N-2400-15-15-15-35-0	SS			15-15-15-35	1.2v	v	v		v	2400
KLEVV	16GB	2Rx8	KM4B16X1N-2400-15-15-15-35-0	DS			15-15-15-35	1.2v	v	v	v	v	2400

KLEVV	16GB	2Rx8	KM4Z16X1N-2400-15-15-15-35-0	DS				15-15-15-35	1.2v	v	v	v	v	2400
PATRIOT	8GB	2Rx8	PV432G240C5QK	DS				15-15-15-35	1.2v	v	v	v	v	2133
PATRIOT	8GB	2Rx8	PX432G240C5QK	DS				15-15-15-35	1.2v	v	v	v	v	2133
PATRIOT	8GB	2Rx8	PX416G240C5K	DS				15-15-15-35	1.2v	v	v	v	v	2133
PATRIOT	8GB	2Rx8	PV416G240C5K	DS				CL15	1.2v	v	v	v	v	2133
Team	8GB	2Rx8	TED48G2400C16BK	DS				16-16-16-39	1.2v	v	v	v	v	2400
Team	16GB	2Rx8	TED416G2400C16BK	DS				16-16-16-39	1.2v	v	v	v	v	2400
Team	16GB	2Rx8	TDTRD464G2400HC15BQC01	DS				15-17-17-35	1.2v	v	v	v	v	2133
Team	16GB	2Rx8	TDTRD432G2400HC15BDC01	DS				15-17-17-35	1.2v	v	v	v	v	2133
Team	16GB	2Rx8	TDTRD416G2400HC15B01	DS				15-17-17-35	1.2v	v	v	v	v	2133
Samsung	4GB	1Rx16	M378A5244CB0-CRC	SS					1.2v	v	v	v	v	2400
innodisk	8GB	2Rx8	M4C0-8GSSMCSJ	DS	Samsung				1.2v	v	v	v	v	2400
V-Color	4GB	1Rx8	TD4G8C17-UH	SS				CL17	1.2v	v	v	v	v	2400
V-Color	8GB	2Rx8	TD8G16C17-UH	DS				CL17	1.2v	v	v	v	v	2400

DDR4 2133MHz

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	HX421C13SBK4/16	SS	SKhynix		CL13	1.2v	v	v	v	v	v	
HyperX	4GB	1Rx8	HX421C13SBK2/8	SS	SKhynix		CL13	1.2v	v	v	v	v	v	
HyperX	4GB	1Rx8	HX421C13SB/4	SS	SKhynix		CL13	1.2v	v	v	v	v	v	
HyperX	8GB	2Rx8	HX421C13SBK4/32	DS	SKhynix		CL13	1.2v	v	v	v	v	v	
HyperX	8GB	2Rx8	HX421C13SBK2/16	DS	SKhynix		CL13	1.2v	v	v	v	v	v	
HyperX	8GB	2Rx8	HX421C13SB/8	DS	SKhynix		CL13	1.2v	v	v	v	v	v	
HyperX	8GB	1Rx8	HX421C14FB2K4/32	SS			CL14	1.2v	v	v	v	v	v	
HyperX	8GB	1Rx8	HX421C14FB2K2/16	SS			CL14	1.2v	v	v	v	v	v	
HyperX	8GB	1Rx8	HX421C14FB2/8	SS			CL14	1.2v	v	v	v	v	v	
HyperX	16GB	2Rx8	HX421C14FBK4/64	DS			CL14	1.2v	v	v	v	v	v	
HyperX	16GB	2Rx8	HX421C14FBK2/32	DS			CL14	1.2v	v	v	v	v	v	
HyperX	16GB	2Rx8	HX421C14FB/16	DS			CL14	1.2v	v	v	v	v	v	
Kingston	4GB	1Rx8	KVR21N15S8/4	SS	SKhynix		CL15	1.2v	v	v	v	v	v	
Kingston	4GB	1Rx8	KVR21E15S8/4	SS	SKhynix		CL15	1.2v	v	v	v	v	v	
Kingston	8GB	2Rx8	KVR21N15D8/8	DS	SKhynix		CL15	1.2v	v	v	v	v	v	
Kingston	8GB	2Rx8	KVR21E15D8/8HA	DS	SKhynix		CL15	1.2v	v	v	v	v	v	
Kingston	8GB	1Rx8	KVR21N15S8/8	DS	Micron		CL15	1.2v	v	v	v	v	v	
Kingston	16GB	2Rx8	KVR21N15D8/16	DS	Micron		CL15	1.2v	v	v	v	v	v	
CORSAIR	4GB	1Rx8	CMK16GX4M4A2133C13	SS			13-15-15-28	1.2v	v	v	v	v	v	
CORSAIR	4GB	1Rx8	CMK16GX4M4A2133C13B	SS			13-15-15-28	1.2v	v	v	v	v	v	
CORSAIR	4GB	1Rx8	CMK16GX4M4A2133C13R	SS			13-15-15-28	1.2v	v	v	v	v	v	
CORSAIR	4GB	1Rx8	CMD16GX4M4B2133C10	SS			10-12-12-31	1.35v	v	v	v	v	v	
CORSAIR	8GB	2Rx8	CMK64GX4M8A2133C13	DS			13-15-15-28	1.2v	v	v	v	v	v	
CORSAIR	16GB	2Rx8	CMV16GX4M1A2133C15	DS			C15	1.2v	v	v	v	v	v	
CORSAIR	16GB	2Rx8	CMK32GX4M2A2133C13	DS			13-15-15-28	1.2v	v	v	v	v	v	
CORSAIR	16GB	2Rx8	CMK128GX4M8A2133C13	DS			13-15-15-28	1.2v	v	v	v	v	v	
G.SKILL	4GB	1Rx8	F4-2133C15Q-16GRR	SS	Micron		15-15-15-35	1.2v	v	v	v	v	v	
G.SKILL	8GB	2Rx8	F4-2133C15Q-32GRR	DS	Micron		15-15-15-35	1.2v	v	v	v	v	v	
Apacer	4GB	1Rx8	78.B1GM3.AF00B	SS			CL15	1.2v	v	v	v	v	v	
Apacer	8GB	2Rx8	78.C1GM3.AF10B	DS			CL15	1.2v	v	v	v	v	v	
Avexir	4GB	1Rx8	AVD4UZ121331504G-4COR	SS	Spectek		15-15-15-35	1.2v	v	v	v	v	v	
Avexir	4GB	1Rx8	AVD4UZ121331504G-4COB	SS	Spectek		15-15-15-35	1.2v	v	v	v	v	v	
Avexir	4GB	1Rx8	AVD4UZ121331504G-4COG	SS	Spectek		15-15-15-35	1.2v	v	v	v	v	v	
Avexir	4GB	1Rx8	AVD4UZ121331504G-4COW	SS	Spectek		15-15-15-35	1.2v	v	v	v	v	v	
Avexir	4GB	1Rx8	AVD4UZ121331504G-4COY	SS	Spectek		15-15-15-35	1.2v	v	v	v	v	v	
Avexir	4GB	1Rx8	AVD4UZ121331504G-4COO	SS	Spectek		15-15-15-35	1.2v	v	v	v	v	v	
Avexir	4GB	1Rx8	AVD4UZ121331504G-4CWW	SS	Spectek		15-15-15-35	1.2v	v	v	v	v	v	
Avexir	8GB	2Rx8	AVD4UZ121331508G-4COB	DS	Spectek		15-15-15-35	1.2v	v	v	v	v	v	
Avexir	8GB	2Rx8	AVD4UZ121331508G-4COR	DS	Spectek		15-15-15-35	1.2v	v	v	v	v	v	
Avexir	8GB	2Rx8	AVD4UZ121331508G-4COG	DS	Spectek		15-15-15-35	1.2v	v	v	v	v	v	
Avexir	8GB	2Rx8	AVD4UZ121331508G-4COW	DS	Spectek		15-15-15-35	1.2v	v	v	v	v	v	
Avexir	8GB	2Rx8	AVD4UZ121331508G-4COY	DS	Spectek		15-15-15-35	1.2v	v	v	v	v	v	
Avexir	8GB	2Rx8	AVD4UZ121331508G-4COO	DS	Spectek		15-15-15-35	1.2v	v	v	v	v	v	
Avexir	8GB	2Rx8	AVD4UZ121331508G-4CWW	DS	Spectek		15-15-15-35	1.2v	v	v	v	v	v	
CRUCIAL	4GB	1Rx8	CT4G4DFS8213.C8FAR1	SS	Micron		CL15	1.2v	v	v	v	v	v	
CRUCIAL	4GB	1Rx8	CT4G4WFS8213.9FA1	SS	Micron		CL15	1.2v	v	v	v	v	v	
CRUCIAL	4GB	1Rx8	CT4G4DFS8213.8FA2	SS	Micron		CL15	1.2v	v	v	v	v	v	
CRUCIAL	8GB	2Rx8	CT8G4WFD8213	DS	Micron		CL15	1.2v	v	v	v	v	v	
CRUCIAL	8GB	2Rx8	CT8G4DFD8213.16FA2	DS	Micron		CL15	1.2v	v	v	v	v	v	
CRUCIAL	8GB	2Rx8	CT8G4DFD8213.C16FAR11	DS	Micron		CL15	1.2v	v	v	v	v	v	
CRUCIAL	8GB	1Rx8	CT8G4DFS8213.8FB1	SS	Micron		CL15	1.2v	v	v	v	v	v	
CRUCIAL	16GB	2Rx8	CT16G4DFD8213.16FB1	DS	Micron		CL15	1.2v	v	v	v	v	v	
GEIL	4GB	1Rx8	GPR416GB2133C15QC	SS			15-15-15-36	1.2v	v	v	v	v	v	
GLOWAY	4GB	1Rx8	4G-2133	SS			15-15-15-35	1.2v	v	v	v	v	v	
Silicon POWER	4GB	1Rx8	SP004GBLFU213N01	SS	Samsung		CL15	1.2v	v	v	v	v	v	
Silicon POWER	8GB	2Rx8	SP008GBLFU213N01	DS	Samsung		CL15	1.2v	v	v	v	v	v	
KLEVV	4GB	1Rx8	KM4B4GX1N-2133-15-15-15-35-0	SS			15-15-15-35	1.2v	v	v	v	v	v	
KLEVV	8GB	1Rx8	KM4B8GX1N-2133-15-15-15-35-0	SS			15-15-15-35	1.2v	v	v	v	v	v	
KLEVV	16GB	2Rx8	KM4B16X1N-2133-15-15-15-35-0	DS			15-15-15-35	1.2v	v	v	v	v	v	
Team	8GB	2Rx8	TED48GM2133C15BK	DS	SKHynix	H5AN4G8NMFR 523V	15-15-15-36	1.2v	v	v	v	v	v	
Team	16GB	2Rx8	TED416G2133C15BK	DS	SKHynix	H5AN4G8NMFR 523V	15-15-15-36	1.2v	v	v	v	v	v	

V-Color	8GB	1Rx8	TE48G21S815	SS	SKHynix		CL15	1.2v	v	v	v	v
V-Color	16GB	2Rx8	TE416G21D815	DS	SKHynix		CL15	1.2v	v	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

• 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。