

Qualified Vendors List (QVL), Model Name: GA-X99-Ultra Gaming

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
									2	4	8		
Avexir	4GB	1Rx8	AVD4U32001604G-4CIR	SS			CL16	1.35v	v	v		v	2133
CORSAIR	4GB	1Rx8	CMD16GX4M4B3200C16	SS			16-18-18-36	1.35v	v	v		v	2133
CORSAIR	4GB	1Rx8	CMK16GX4M4B3200C15	SS			16-17-17-35	1.35v	v	v		v	2133
CORSAIR	4GB	1Rx8	CMK8GX4M2B3200C16	SS			16-18-18-36	1.35v	v	v		v	2133
CORSAIR	4GB	1Rx8	CMK16GX4M4B3200C16	SS			16-18-18-36	1.35v	v	v		v	2133
CORSAIR	4GB	1Rx8	CMK16GX4M4C3200C16	SS			16-18-18-36	1.35v	v	v		v	2133
CORSAIR	4GB	1Rx8	CMD16GX4M4C3200C15	SS			15-17-17-35	1.35v	v	v		v	2133
CORSAIR	4GB	1Rx8	CMD16GX4M4B3200C16	SS			16-18-18-36	1.35v	v	v		v	2133
CORSAIR	8GB	2Rx8	CMK16GX4M2B3200C16	DS			16-18-18-36	1.35v	v	v		v	2133
CORSAIR	8GB	1Rx8	CMD64GX4M8B3200C16	SS			16-18-18-36	1.35v			v	v	2133
CORSAIR	8GB	1Rx8	CMK64GX4M8B3200C16	SS			16-18-18-36	1.35v	v	v	v	v	2133
G.SKILL	4GB	1Rx8	F4-3200C16Q-16GRKD	SS	SKhynix		16-16-16-36	1.35v	v	v	v	v	2133
G.SKILL	4GB	1Rx8	F4-3200C16Q-16GRK	SS			16-16-16-36	1.35v	v	v	v	v	2133
G.SKILL	8GB	2Rx8	F4-3200C16Q-32GVK	DS			16-16-16-36	1.35v	v	v		v	2133
G.SKILL	8GB	2Rx8	F4-3200C16D-16GVKB	DS			16-18-18-38	1.35v	v	v		v	2133
G.SKILL	8GB	1Rx8	F4-3200C14Q2-64GVK	SS	Samsung		14-14-14-34	1.35v	v	v	v	v	2133
G.SKILL	8GB	1Rx8	F4-3200C15Q2-64GVR	SS			15-15-15-35	1.35v	v	v	v	v	2133
PATRIOT	4GB	1Rx8	PV48G320C6K	SS			CL16	1.35v	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
									2	4	8		
ADATA	4GB	1Rx8	AX4U3000W4G16-BWZ	SS			16-16-16	1.35	v	v	v	v	2133
ADATA	8GB	2Rx8	AX4U3000W8G16-BWZ	DS			16-16-16	1.35	v	v	v	v	2133
ADATA	16GB	2Rx8	AX4U3000316G16	DS			16-18-18-36	1.35	v	v		v	2133
Avexir	4GB	1Rx8	AVD4U30001604G-4CIR	SS			CL16	1.35v	v	v		v	2133
CORSAIR	4GB	1Rx8	CMD16GX4M4B3000C15	SS	SKhynix		15-17-17-35	1.35v	v	v		v	2133
CORSAIR	4GB	1Rx8	CMK16GX4M4B3000C15	SS			15-17-17-35	1.35v	v	v		v	2133
CORSAIR	4GB	1Rx8	CMD16GX4M4B3000C14	SS			15-17-17-35	1.35v	v	v		v	2133
CORSAIR	4GB	1Rx8	CMK8GX4M2B3000C15	SS			15-17-17-35	1.35v	v	v		v	2133
CORSAIR	8GB	2Rx8	CMK32GX4M4B3000C15	DS			15-17-17-35	1.35v	v	v		v	2133
CORSAIR	8GB	2Rx8	CMK16GX4M2B3000C15	DS			15-17-17-35	1.35v	v	v		v	2133
CORSAIR	8GB	2Rx8	CMD16GX4M2B3000C15	DS			15-17-17-35	1.35v	v	v		v	2133
CORSAIR	16GB	2Rx8	CMK32GX4M2B3000C15	DS			15-17-17-35	1.35v	v	v		v	2133
CORSAIR	16GB	2Rx8	CMK64GX4M4B3000C15	DS			15-17-17-35	1.35v	v	v		v	2133
CORSAIR	16GB	2Rx8	CMK128GX4M8B3000C16	DS			16-18-18-36	1.35v	v	v		v	2133
G.SKILL	4GB	1Rx8	F4-3000C15Q-16GVR	SS			15-15-15-35	1.35v	v	v		v	2133
G.SKILL	4GB	1Rx8	F4-3000C15Q2-32GRBB	SS			15-16-16-35	1.35v	v	v	v	v	2133
G.SKILL	8GB	2Rx8	F4-3000C15Q-32GRK	DS			15-15-15-35	1.35v	v	v		v	2133
G.SKILL	8GB	1Rx8	F4-3000C14Q2-64GVK	SS			14-14-14-34	1.35v	v	v	v	v	2133
G.SKILL	8GB	1Rx8	F4-3000C15Q2-64GVR	SS			15-15-15-35	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
GEIL	8GB	2Rx8	GPR416GB3000C15ADC	DS			15-17-17-35	1.35v	v	v		v	2133
HyperX	4GB	1Rx8	HX430C15PB2K4/16	SS			15-16-16	1.35v	v	v		v	2133
HyperX	4GB	1Rx8	HX430C15SB2K4/16	SS	SKhynix		C15	1.35v	v	v		v	2133
HyperX	4GB	1Rx8	HX430C15SB2K2/8	SS	SKhynix		C15	1.35v	v	v		v	2133
HyperX	8GB	2Rx8	HX430C15PBK4/32	DS			15-16-16	1.35v	v	v	v	v	2133
HyperX	8GB	2Rx8	HX430C15SB2K4/32	DS	SKhynix		C15	1.35v	v	v	v	v	2133
HyperX	8GB	2Rx8	HX430C15SB2K2/16	DS	SKhynix		C15	1.35v	v	v	v	v	2133
HyperX	16GB	2Rx8	HX430C16PB2K2/32	DS			C16	1.35v	v	v	v	v	2133
KLEVV	4GB	1Rx8	KM4C4GX4A-3000-16-18-18-36-0	SS			16-18-18-36	1.35v	v	v	v	v	2133
Panram	4GB	1Rx8	PUD43000C154G4NJW	SS	SKhynix		15-17-17-35	1.35v	v	v	v	v	2133
Team	8GB	2Rx8	TCD48G3000C15ABK	DS	SKhynix	H5AN4G8NMFR 523V	15-15-15-35	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
									2	4	8		
ADATA	4GB	1Rx8	AX4U2800W4G17-B	SS	SKhynix		17-17-17-36	1.2v	v	v		v	2133
ADATA	4GB	1Rx8	AX4U2800W4G17-BRZ	SS			17-17-17-36	1.2v	v	v	v	v	2133
ADATA	8GB	2Rx8	AX4U2800W8G17-B	DS	SKhynix		17-17-17-36	1.2v	v	v		v	2133
ADATA	8GB	2Rx8	AX4U2800W8G17-BRZ	DS			17-17-17-36	1.2v	v	v	v	v	2133
Avexir	4GB	1Rx8	AVD4U28001504G-4CIR	SS			CL15	1.2v	v	v		v	2133
Avexir	8GB	2Rx8	AVD4U28001608G-4CIR	DS			CL16	1.2v	v	v		v	2133
Apacer	4GB	1Rx8	78.BAGM8.AF20B	SS			17-17-17-36	1.2v	v	v	v	v	2133
Apacer	8GB	2Rx8	78.CAGM8.AF30B	DS			17-17-17-36	1.2v	v	v		v	2133
CORSAIR	4GB	1Rx8	CMK16GX4M4A2800C16	SS	SKhynix		16-18-18-36	1.2v	v	v	v	v	2133
CORSAIR	4GB	1Rx8	CMD16GX4M4A2800C16	SS	SKhynix		16-18-18-36	1.2v	v	v	v	v	2133
CORSAIR	4GB	1Rx8	CMK16GX4M4A2800C16	SS	Samsung		16-18-18-36	1.2v	v	v		v	2133
CORSAIR	4GB	1Rx8	CMD16GX4M4A2800C16	SS	Samsung		16-18-18-36	1.2v	v	v		v	2133
CORSAIR	4GB	1Rx8	CMK16GX4M4A2800C16R	SS			16-18-18-36	1.2v	v	v		v	2133
CORSAIR	8GB	2Rx8	CMD32GX4M4A2800C16	DS	SKhynix		16-18-18-36	1.2v	v	v		v	2133
CORSAIR	8GB	2Rx8	CMK32GX4M4A2800C16	DS	SKhynix		16-18-18-36	1.2v	v	v		v	2133
CORSAIR	8GB	2Rx8	CMK64GX4M8B2800C14	DS			14-16-16-36	1.35v	v	v	v	v	2133

G.SKILL	4GB	1Rx8	F4-2133C15Q-16GRR	SS	Micron		15-15-15-35	1.2v	v	v			v
G.SKILL	8GB	2Rx8	F4-2133C15Q-32GRR	DS	Micron		15-15-15-35	1.2v	v	v	v		v
GEIL	4GB	1Rx8	GPR416GB2133C15QC	SS			15-15-15-36	1.2v	v	v	v		v
GLOWAY	4GB	1Rx8	4G-2133	SS			15-15-15-35	1.2v	v	v			v
HyperX	4GB	1Rx8	HX421C13SBK4/16	SS	SKhynix		CL13	1.2v	v				v
HyperX	4GB	1Rx8	HX421C13SBK2/8	SS	SKhynix		CL13	1.2v	v				v
HyperX	4GB	1Rx8	HX421C14FBK4/16	SS	SKhynix		CL14	1.2v	v	v			v
HyperX	4GB	1Rx8	HX421C14FBK2/8	SS	SKhynix		CL14	1.2v	v	v			v
HyperX	8GB	2Rx8	HX421C13SBK4/32	DS	SKhynix		CL13	1.2v	v	v			v
HyperX	8GB	2Rx8	HX421C13SBK2/16	DS	SKhynix		CL13	1.2v	v	v			v
HyperX	8GB	2Rx8	HX421C14FBK4/32	DS	SKhynix		CL14	1.2v	v	v			v
HyperX	8GB	2Rx8	HX421C14FBK2/16	DS	SKhynix		CL14	1.2v	v	v			v
HyperX	8GB	1Rx8	HX421C14FB2K4/32	SS			CL14	1.2v	v	v	v	v	2133
HyperX	8GB	1Rx8	HX421C14FB2K2/16	SS			CL14	1.2v	v	v	v	v	2133
HyperX	16GB	2Rx8	HX421C14FBK4/64	DS			CL14	1.2v	v	v	v	v	2133
HyperX	16GB	2Rx8	HX421C14FBK2/32	DS			CL14	1.2v	v	v	v	v	2133
Kingston	4GB	1Rx8	KVR21N15S8/4	SS	SKhynix			1.2v	v	v			v
Kingston	4GB	1Rx8	KVR21N15S8/4	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			1.2v	v	v			v
Kingston	8GB	2Rx8	KVR21N15D8/8	DS	SKhynix		CL15	1.2v	v	v	v		v
Kingston	8GB	2Rx8	KVR21E15D8/8HA	DS	SKhynix		CL15	1.2v	v	v			2133
Kingston	16GB	2Rx8	KVR21N15D8/16	DS	Micron		CL15	1.2v	v	v		v	2133
KLEVV	4GB	1Rx8	KM4C4GX4N-2133-15-15-15-35-0	SS			15-15-15-35	1.2v	v	v	v		v
Panram	4GB	1Rx8	PUD42133C154G2VS	SS	SKhynix		15-15-15-36	1.2v	v	v	v		v
Panram	4GB	1Rx8	PE42133C154GVS	SS	SKhynix		15-15-15-36	1.2v	v	v	v		v
Panram	8GB	2Rx8	PUD42133C138G4NJW	DS	SKhynix		13-13-13-35	1.2v	v	v	v		v
Panram	8GB	2Rx8	PE42133C158GVS	DS	SKhynix		15-15-15-36	1.2v	v	v	v		v
Silicon POWER	4GB	1Rx8	SP004GBLFU213N01	SS	Samsung		CL15	1.2v	v	v			v
Silicon POWER	8GB	2Rx8	SP008GBLFU213N01	DS	Samsung		CL15	1.2v	v	v	v		v
Team	8GB	2Rx8	TED48GM2133C15BK	DS	SKhynix	H5AN4G8NMFK523V	15-15-15-36	1.2v	v	v	v		v

RDIMM 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
									2	4	8		
CRUCIAL	4GB	1Rx8	CT4G4RFS8213.9FA2	DS	Micron	41A77D9RGQ		1.2v	v	v	v		v
CRUCIAL	8GB	1Rx4	CT8G4RFS4213	DS	Micron		CL15	1.2	v	v	v		v
CRUCIAL	16GB	2Rx4	CT16G4RFD4213	DS	Micron		CL15	1.2	v	v	v		v
CRUCIAL	16GB	2Rx4	CT16G4RFD4213.36FB1	DS	Micron		CL15	1.2	v	v	v		v
Kingston	8GB	1Rx4	KVR21R15S4/8	DS	SKhynix		CL15	1.2	v	v	v		v
Kingston	16GB	2Rx4	KVR21R15D4/16	DS	SKhynix		CL15	1.2	v	v	v		v
SAMSUNG	8GB	1Rx4	M393A1G40DB0-CPB	DS	Samsung			1.2v	v	v	v		v
SAMSUNG	16GB	2Rx4	M393A2G40DB0-CPB	DS	Samsung			1.2v	v	v	v		v

RDIMM 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
									2	4	8		
CRUCIAL	8GB	1Rx4	CT8G4RFS424A.18FB1	DS	Micron		CL17	1.2v	v	v	v		v
CRUCIAL	8GB	2Rx8	CT8G4RFD824A.18FB1	DS	Micron		CL17	1.2v	v	v	v		v
CRUCIAL	16GB	2Rx4	CT16G4RFD424A.36FB1	DS	Micron		CL17	1.2v	v	v	v		v
CRUCIAL	16GB	1Rx4	CT16G4RFS424A.18FB1	DS	Micron		CL17	1.2v	v	v	v		v
CRUCIAL	16GB	2Rx8	CT16G4RFD824A.18FB1	DS	Micron		CL17	1.2v	v	v	v		v
CRUCIAL	32GB	2Rx4	CT32G4RFD424A	DS	Micron		CL16	1.2v	v	v	v		v
CRUCIAL	32GB	2Rx4	è CT32G4RFD424A.36FB1	DS	Micron			1.2v	v	v			v

• 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, four or eight 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、四支或八支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。