

Qualified Vendors List (QVL):Z170N-Gaming 5

DDR4 3300~3333MHz

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		
ADATA	4GB	1Rx8	AX4U3333W4G16-B	SS	SKhynix		16-16-16-36	1.35v	v	v	v	2133
CORSAIR	4GB	1Rx8	CMK16GX4M4B3300C16	SS			16-18-18-36	1.35v	v	v	v	2133
G.SKILL	4GB	1Rx8	F4-3333C16Q-16GRKD	SS	SKhynix		16-16-16-36	1.35v	v	v	v	2133
HyperX	4GB	1Rx8	HX433C17PBK4/16	SS			17-17-17-43	1.35v	v	v	v	2133

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		
Apacer	4GB	1Rx8	78.BAGMD.AF20B	SS			16-16-16-36	1.35v	v	v	v	2133
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	8GB	2Rx8	CMK16GX4M2B3200C16	DS			16-18-18-36	1.35v	v	v	v	2133
G.SKILL	4GB	1Rx8	F4-3200C16Q-16GRKD	SS	SKhynix		16-16-16-36	1.35v	v	v	v	2133
G.SKILL	4GB	1Rx8	F4-3200C16Q-16GRK	SS			16-16-16-36	1.35v	v	v	v	2133
GEIL	4GB	1Rx8	GPR416GB3200C16QC	SS			16-16-16-36	1.35v	v	v	v	2133
HyperX	4GB	1Rx8	HX432C16PBK4/16	SS	SKhynix		16-16-16-39	1.35v	v	v	v	2133
Panram	4GB	1Rx8	PUD43200C164G4NJW	SS	SKhynix		16-18-18-36	1.35v	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		
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	CMD16GX4M4B3000C15	SS	Samsung		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
G.SKILL	4GB	1Rx8	F4-3000C15Q-16GRK	SS			15-15-15-35	1.35v	v	v	v	2133
G.SKILL	8GB	2Rx8	F4-3000C15Q-32GRK	DS			15-15-15-35	1.35v	v	v	v	2133
GEIL	8GB	2Rx8	GPR432GB3000C15QC	DS			15-15-15-35	1.35v	v	v	v	2133
HyperX	4GB	1Rx8	HX430C15PB2K4/16	SS	SKhynix		CL15	1.35v	v	v	v	2133
HyperX	8GB	2Rx8	HX430C15PBK4/32	DS			CL15	1.35v	v	v	v	2133

HyperX	8GB	2Rx8	HX430C15SB2K4/32	DS	SKhynix		CL15	1.35v	v	v	v	2133
HyperX	8GB	2Rx8	HX430C15SB/8	DS	SKhynix		CL15	1.35v	v	v	v	2133
HyperX	8GB	2Rx8	HX430C15SB2/8	DS	SKhynix		CL15	1.35v	v	v	v	2133
HyperX	8GB	2Rx8	HX430C15SB2K2/16	DS	SKhynix		CL15	1.35v	v	v	v	2133
HyperX	8GB	2Rx8	HX430C15SB2K/16	DS	SKhynix		CL15	1.35v	v	v	v	2133
Panram	4GB	1Rx8	PUD43000C154G4NJW	SS	SKhynix		15-17-17-35	1.35v	v	v	v	2133
Team	4GB	1Rx8	TCD44G3000C16ABK	SS	Samsung		16-16-16-36	1.35v	v	v	v	2133
Team	8GB	2Rx8	TCD48G3000C16ABK	DS	Samsung		16-16-16-36	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		
ADATA	4GB	1Rx8	AX4U2800W4G17	SS	SKhynix		17-17-17-36	1.2v	v	v	v	2133
ADATA	8GB	2Rx8	AX4U2800W8G17	DS	SKhynix		17-17-17-36	1.2v	v	v	v	2133
Avexir	4GB	1Rx8	AVD4U28001504G-4CIR	SS			CL15	1.2v	v	v	v	2133
Apacer	4GB	1Rx8	78.BAGM8.AF20B	SS			17-17-17-36	1.2v	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	2133
CORSAIR	4GB	1Rx8	CMD16GX4M4A2800C16	SS	SKhynix		16-18-18-36	1.2v	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	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
G.SKILL	4GB	1Rx8	F4-2800C16Q-16GRK	SS			16-16-16-36	1.2v	v	v	v	2133
G.SKILL	8GB	2Rx8	F4-2800C16Q-32GRK	DS			16-16-16-36	1.2v	v	v	v	2133
G.SKILL	16GB	2Rx8	F4-2800C15Q2-128GRKD	DS			15-15-15-35	1.35v	v	v	v	2133
HyperX	4GB	1Rx8	HX428C14PB2K4/16	SS	SKhynix		15-15-15-39	1.35v	v	v	v	2133
HyperX	8GB	2Rx8	HX428C14PBK4/32	DS			CL14	1.35v	v	v	v	2133
Panram	4GB	1Rx8	PUD42800C164G4NJW	SS	SKhynix		16-18-18-36	1.25v	v	v	v	2133

DDR4 2666MHz

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		
Avexir	4GB	1Rx8	AVD4U26661504G-4CIR	SS			CL15	1.2v	v	v	v	2133
Avexir	8GB	2Rx8	AVD4U26661608G-4CIR	DS			CL16	1.2v	v	v	v	2133
CORSAIR	4GB	1Rx8	CMK16GX4M4A2666C15	SS	Samsung		15-17-17-35	1.2v	v	v	v	2133
CORSAIR	4GB	1Rx8	CMK16GX4M4A2666C16	SS	Samsung		16-18-18-35	1.2v	v	v	v	2133
CORSAIR	4GB	1Rx8	CMD16GX4M4A2666C15	SS	Samsung		15-17-17-35	1.2v	v	v	v	2133
CORSAIR	4GB	1Rx8	CMD16GX4M4A2666C16	SS	Samsung		16-18-18-35	1.2v	v	v	v	2133
CORSAIR	4GB	1Rx8	CMD8GX4M2A2666C15	SS			15-17-17-35	1.2v	v	v	v	2133
CORSAIR	8GB	2Rx8	CMK32GX4M4A2666C15	DS	Samsung		15-17-17-35	1.2v	v	v	v	2133

CORSAIR	8GB	2Rx8	CMD32GX4M4A2666C15	DS	Samsung		15-17-17-35	1.2v	v	v	v	2133
CORSAIR	8GB	2Rx8	CMD32GX4M4A2666C16	DS	Samsung		16-18-18-35	1.2v	v	v	v	2133
CORSAIR	8GB	2Rx8	CMK32GX4M4A2666C16R	DS	Samsung		16-18-18-35	1.2v	v	v	v	2133
CORSAIR	8GB	2Rx8	CMK16GX4M2A2666C16	DS			16-18-18-35	1.2v	v	v	v	2133
CORSAIR	8GB	2Rx8	CMD16GX4M2A2666C15	DS			15-17-17-35	1.2v	v	v	v	2133
CORSAIR	16GB	2Rx8	CMK32GX4M2A2666C16	DS			16-18-18-35	1.2v	v	v	v	2133
CRUCIAL	4GB	1Rx8	BLE4G4D26AFEA.8FAD	SS			16-17-17-36	1.2v	v	v	v	2400
CRUCIAL	8GB	2Rx8	BLE8G4D26AFEA.16FAD	DS			16-17-17-36	1.2v	v	v	v	2400
G.SKILL	4GB	1Rx8	F4-2666C15Q-16GRR	SS			15-15-15-35	1.2v	v	v	v	2133
G.SKILL	8GB	2Rx8	F4-2666C15Q-32GRR	DS			15-15-15-35	1.2v	v	v	v	2133
HyperX	4GB	1Rx8	HX426C15K4/16	SS			15-17-17-35	1.2v	v	v		2666
HyperX	4GB	1Rx8	HX426C15FBK4/16	SS			CL15	1.2v	v	v	v	2133
HyperX	8GB	2Rx8	HX426C15FBK4/32	DS			CL15	1.2v	v	v	v	2133
HyperX	4GB	1Rx8	HX426C13PB2K4/16	SS			CL13	1.35v	v	v	v	2133
HyperX	8GB	2Rx8	HX426C13PBK4/32	DS			CL13	1.35v	v	v	v	2133
KLEVV	4GB	1Rx8	KM4C4GX4N-2666-15-15-15-35-0	SS			15-15-15-35	1.2v	v	v	v	2133
Team	4GB	1Rx8	TCD44G2666C15ABK	SS	Samsung		15-15-15-35	1.2v	v	v	v	2133
Team	8GB	2Rx8	TCD48G2666C15ABK	DS	Samsung		15-15-15-35	1.2v	v	v	v	2133

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		
ADATA	4GB	1Rx8	AX4U2400W4G16	SS	SKHynix		16-16-16-39	1.2v	v	v	v	2133
ADATA	8GB	2Rx8	AX4U2400W8G16	DS	SKHynix		16-16-16-39	1.2v	v	v	v	2133
Apacer	4GB	1Rx8	78.B1GMS.4050B	SS	Samsung		CL17	1.2v	v	v		2400
Apacer	8GB	2Rx8	78.C1GMS.4010B	DS	Samsung		CL17	1.2v	v	v		2400
Avexir	4GB	1Rx8	AVD4U24001604G-4M	SS	SKHynix		CL16	1.2v	v	v	v	2133
Avexir	8GB	2Rx8	AVD4U24001608G-4M	DS	SKHynix		CL16	1.2v	v	v	v	2133
CORSAIR	4GB	1Rx8	CMK16GX4M4A2400C14	SS	Samsung		14-16-16-31	1.2v	v	v	v	2133
CORSAIR	4GB	1Rx8	CMD16GX4M4A2400C14	SS	Samsung		14-16-16-31	1.2v	v	v	v	2133
CORSAIR	8GB	2Rx8	CMK32GX4M4A2400C14	DS	Samsung		14-16-16-31	1.2v	v	v	v	2133
CORSAIR	8GB	2Rx8	CMD32GX4M4A2400C14	DS	Samsung		14-16-16-31	1.2v	v	v	v	2133
CORSAIR	16GB	2Rx8	CMK128GX4M8A2400C14	DS			14-16-16-31	1.2v	v	v	v	2133
CRUCIAL	4GB	1Rx8	BLS4G4D240FSA.M8FADM	SS	Micron		16-16-16-40	1.2v	v	v	v	2400
CRUCIAL	8GB	2Rx8	BLS8G4D240FSA	DS	Micron		16-16-16-40	1.2v	v	v	v	2400
CRUCIAL	16GB	2Rx8	BLS16G4D240FSB.16FAD	DS	Micron		16-16-16-39	1.2v	v	v	v	2400
G.SKILL	4GB	1Rx8	F4-2400C15Q-16GRR	SS	Micron		15-15-15-35	1.2v	v	v	v	2133
G.SKILL	8GB	2Rx8	F4-2400C15Q-32GRR	DS	Micron		15-15-15-35	1.2v	v	v	v	2133
G.SKILL	16GB	2Rx8	F4-2400C15Q2-128GRK	DS			15-15-15-35	1.2v	v	v	v	2133
HyperX	4GB	1Rx8	HX424C12PB2K4/16	SS	SKHynix		CL12	1.35v	v	v	v	2133

HyperX	8GB	2Rx8	HX424C12PBK4/32	DS			CL12	1.35v	v	v	v	2133
PATRIOT	4GB	1Rx8	PX416G240C5QK	SS			15-15-15-35	1.2v	v	v	v	2133
PATRIOT	4GB	1Rx8	PX48G240C5K	SS			15-15-15-35	1.2v	v	v	v	2133
PATRIOT	8GB	2Rx8	PV432G240C5QK	DS			15-15-15-35	1.2v	v	v	v	2133
PATRIOT	8GB	2Rx8	PX432G240C5QK	DS			15-15-15-35	1.2v	v	v	v	2133
PATRIOT	8GB	2Rx8	PX416G240C5K	DS			15-15-15-35	1.2v	v	v	v	2133
Panram	4GB	1Rx8	PUD42400C154G4NJW	SS	SKhynix		15-15-15-35	1.2v	v	v		2400
Panram	8GB	2Rx8	PUD42400C158G4NJW	DS	SKhynix		15-15-15-35	1.2v	v	v		2400
Team	4GB	1Rx8	TED44GM2400C16BK	SS	Samsung		16-16-16-39	1.2v	v	v		2400
Team	8GB	2Rx8	TED48GM2400C16BK	DS	Samsung		16-16-16-39	1.2v	v	v		2400
V-Color	4GB	1Rx8	TD4G8C17-UH	SS			CL17	1.2v	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		
ADATA	4GB	1Rx8	AD4U2133W4G15-B	SS	SKhynix		CL15	1.2v	v	v		v
ADATA	8GB	2Rx8	AD4U2133W8G15-B	DS	SKhynix		CL15	1.2v	v	v		v
Apacer	4GB	1Rx8	78.B1GM3.AF00B	SS			CL15	1.2v	v	v		v
Apacer	8GB	2Rx8	78.C1GM3.AF10B	DS			CL15	1.2v	v	v		v
CORSAIR	4GB	1Rx8	CMV4GX4M1A2133C15-ESM	SS	Micron		CL15	1.2v	v	v		v
CORSAIR	4GB	1Rx8	CMV4GX4M1A2133C15	SS	SKhynix		CL15	1.2v	v	v		v
CORSAIR	4GB	1Rx8	CMK16GX4M4A2133C13	SS			13-15-15-28	1.2v	v	v		v
CORSAIR	4GB	1Rx8	CMD16GX4M4B2133C10	SS			10-12-12-31	1.35v	v	v		v
CORSAIR	8GB	2Rx8	CMV8GX4M1A2133C15-ESM	DS	Micron		CL15	1.2v	v	v		v
CORSAIR	8GB	2Rx8	CMV8GX4M1A2133C15	DS	SKhynix		CL15	1.2v	v	v		v
CORSAIR	8GB	2Rx8	CMK32GX4M4A2133C13	DS			13-15-15-28	1.2v	v	v		v
CORSAIR	8GB	2Rx8	CMK64GX4M8A2133C13	DS			13-15-15-28	1.2v	v	v		v
CRUCIAL	4GB	1Rx8	CT4G4DFS8213.C8FAR1	SS	Micron		CL15	1.2v	v	v		v
CRUCIAL	4GB	1Rx8	CT4G4WFS8213.9FA1	SS	Micron		CL15	1.2v	v	v		v
CRUCIAL	8GB	2Rx8	CT8G4DFD8213.C16FAR1	DS	Micron		CL15	1.2v	v	v		v
CRUCIAL	8GB	2Rx8	CT8G4WFD8213	DS	Micron		CL15	1.2v	v	v		v
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
innodisk	4GB	1Rx8	M4C0-4GSSLCRG	SS				1.2v	v	v		v
innodisk	8GB	2Rx8	M4C0-8GSSMCRG	SS				1.2v	v	v		v
HyperX	4GB	1Rx8	HX421C14FBK4/16	SS				1.2v	v	v		v
Panram	4GB	1Rx8	PUD42133C154G2VS	SS	SKhynix		15-15-15-36	1.2v	v	v		v
Panram	4GB	1Rx8	PUD42133C134G4NJW	SS	SKhynix		13-13-13-35	1.2v	v	v		v
Panram	4GB	1Rx8	PED42133C154GVS	SS	SKhynix		15-15-15-36	1.2v	v	v		v
Panram	8GB	2Rx8	PUD42133C158G2VS	DS	SKhynix		15-15-15-36	1.2v	v	v		v
Panram	8GB	2Rx8	PUD42133C138G4NJW	DS	SKhynix		13-13-13-35	1.2v	v	v		v

Panram	8GB	2Rx8	PED42133C158GVS	DS	SKhynix		15-15-15-36	1.2v	v	v		v
SAMSUNG	4GB	1Rx8	M378A5143DB0-CPB	SS				1.2v	v	v		v
SAMSUNG	8GB	2Rx8	M378A1G43DB0-CPB	DS				1.2v	v	v		v
Team	4GB	1Rx8	TED44GM2133C15BK	SS			15-15-15-36	1.2v	v	v		v
Team	8GB	2Rx8	TED48GM2133C15BK	DS	SKHynix	H5AN4G8NMFR 523V	15-15-15-36	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 3200 MHz or higher**, the system's stability depends on the CPU's capabilities.
當執行XMP至**DDR4 3200MHz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 below is for reference only. Due to massive memory models in market, we can only verify some of them.
以上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。