

# Pro WS C422-ACE

## DDR4 2133 Qualified Vendors List (QVL)

Vendors	Part No.	Size	Timing	Voltage	DIMM socket support (Optional)		
					2 DIMM	4 DIMM	8 DIMM
Apacer	78.C1GM3.AF10B	4x 8GB	15-15-15-36	1.2	•	•	
Apacer	AU08GGB13CDYBGH	8GB	15-15-15-36	1.2	•	•	
CENTURY MICRO INC	CD8G-D4U2133	8GB	15-15-15-36	-	•	•	
CENTURY MICRO INC	CK8GX4-D4U2133	4x 8GB	15-15-15-35	1.2	•	•	
CORSAIR	CMK32GX4M4A2133C13(Ver4.23)(XMP)	4x 8GB	13-15-15-28	1.2	•	•	
CORSAIR	CMK64GX4M8A2133C13(Ver5.39)(XMP)	8x 8GB	14-15-15-28	1.2	•	•	•
crucial	CT4G4DFS8213.8FA2	4GB	15-15-15-36	1.2	•	•	
crucial	CT4G4DFS8213.8FB1	4GB	15-15-15-36	1.2	•	•	
G.SKILL	F4-2133C15Q2-128GVK	8x 16GB	15-15-15-36	1.2	•	•	•
G.SKILL	F4-2133C15Q2-64GRR	8x 8GB	15-15-15-35	1.2	•	•	
GelL	GPR416GB2133C15QC	4x 4GB	15-15-15-36	1.2	•	•	
GelL	GPR432GB2133C15QC	4x 8GB	15-15-15-36	1.2	•	•	
Hyper X	HX421C13SBK4/16(XMP)	4x 4GB	15-15-15-36	1.2	•	•	
Hyper X	HX421C14FB2K4/32(XMP)	4x 8GB	14-14-14-35	1.2	•	•	
Kingston	KVR21N15D8/16	16GB	15-15-15-36	1.2	•	•	
Klevv	IM48GU88N21-FFFHMB(XMP)	8GB	15-15-15-35	1.2	•	•	
Klevv	IM4AGU88N21-FFFHMB(XMP)	16GB	15-15-15-35	1.2	•	•	
Micron	MTA8ATF1G64AZ-2G1B1	8GB	15-15-15-36	1.2	•	•	
Micron	MTA8ATF51264AZ-2G1A2	4GB	15-15-15-36	-	•	•	
panram	W4U2133PS-8G	8GB	16-16-16-36	-	•	•	
SanMax	SMD-4G28HP-21P	4GB	15-15-15-37	-	•	•	
SanMax	SMD-8G28HP-21P	8GB	15-15-15-37	-	•	•	•
Silicon Power	SP004GBLFU213N01	4GB	15-15-15-37	-	•	•	
Silicon Power	SP008GBLFU213N01	8GB	15-15-15-37	-	•	•	
SK Hynix	HMA41GU7AFR8N-TF	8GB	15-15-15-36	-	•	•	
SK Hynix	HMA82GU7MFR8N-TF	16GB	15-15-15-36	-	•	•	
SUPER TALENT	FBU2B008GM	8GB	15-15-15-36	1.2	•	•	
Team	TED416G2133C15BK	16GB	15-15-15-36	1.2	•	•	
Team	TED44GM2133C15ABK	4GB	15-15-15-36	1.2	•	•	
UMAX	84G44G93MC-21OMCALGF15	4GB	15-15-15-36	-	•	•	
UMAX	84G48G93MC-21OMCGNGF15	8GB	15-15-15-36	-	•	•	
V-color	TC48G21S815-IMS	8GB	15-15-15-36	1.2	•	•	
V-color	TE48G21S815	8GB	15-15-15-36	1.2	•	•	
Hyper X	HX421C14FB/4	4GB	14-14-14-35	1.2	•	•	

### 8-DIMM

- **4 DIMM:** Supports 4 modules inserted into both the A1, B1, C1, and D1 slots as one set of DIMMs operating in a quad-channel memory configuration
- **8 DIMM:** Supports 8 modules inserted into all slots as two sets DIMMs operating in a quad-channel memory configuration

DDR4 2400 Qualified Vendors List (QVL)							
Vendors	Part No.	Size	Timing	Voltage	DIMM socket support (Optional)		
					2 DIMM	4 DIMM	8 DIMM
ADATA	AD4X240038G17	8GB	17-17-17-39	1.2	•		
ADATA	AD4X2400W4G17	4GB	17-17-17-39	1.2	•	•	
Antec	AMD4UZ124001508G-3S	8GB	15-15-15-39	1.2	•	•	
Antec	AMD4UZ124001608G-5S	8GB	16-16-16-36	1.2	•	•	
Apacer	AHU08GGB24CDU7G(XMP)	8GB	16-16-16-36	1.2	•	•	
Apacer	EK.08G2T.GEC(XMP)	8GB	17-17-17-39	-	•	•	
CORSAIR	CMK128GX4M8A2400C14(Ver3.31)(XMP)	8x 16GB	15-16-16-31	1.2	•	•	•
CORSAIR	CMK32GX4M4A2400C14(Ver3.31)(XMP)	4x 8GB	14-16-16-31	1.2	•	•	
crucial	BLS4G4D240FSB.8FBD(XMP)	4GB	16-16-16-39	1.2	•	•	
crucial	BLS8G4D240FSBK.8FBD(XMP)	8GB	16-16-16-39	1.2	•	•	
G.SKILL	F4-2400C14Q2-128GRK(XMP)	8x 16GB	14-14-14-34	1.2	•	•	•
G.SKILL	F4-2400C14Q2-128GRK(XMP)	8x 16GB	15-15-15-36	1.2	•	•	•
G.SKILL	F4-2400C14Q2-128GRK(XMP)	8x 16GB	14-14-14-34	1.2	•	•	•
G.SKILL	F4-2400C15Q2-128GRK(XMP)	8x 16GB	15-15-15-35	1.2	•	•	
G.SKILL	F4-2400C15Q2-128GVK(XMP)	8x 16GB	15-15-15-36	1.2	•	•	
GALAX	Gamer Aurira Vision (XMP)	8GB	17-16-16-36	1.2	•	•	
Gell	GASB416GB2400C16QC(XMP)	4GB	16-16-16-36	1.2	•	•	
Gell	GASB432GB2400C16QC(XMP)	8GB	16-16-16-36	1.2	•	•	
Hyper X	HX424C12SB2K4/16(XMP)	4x 4GB	15-15-15-36	1.35	•	•	
Hyper X	HX424C15B2K4/32(XMP)	4x 8GB	15-15-15-35	1.2	•	•	
J&A	JRLL4U2400172408-8M	8GB	17-17-17-39	1.2	•		
KINGMAX	GLLH22F-18KIIA-CFBU2	16GB	17-17-17-39	-	•	•	
Kingston	KVR24N17D8/16	16GB	17-17-17-39	1.2	•	•	
Kingston	KVR24N17D8L/16-SP	16GB	17-17-17-39	1.2	•	•	•
Kingston	KVR24N17S8/4	4GB	17-17-17-39	1.2	•	•	
Klevv	IM44GU48N24-FFFHAB(XMP)	4GB	15-15-15-35	1.2	•	•	
Klevv	IM48GU88N24-FFFHMB(XMP)	8GB	15-15-15-35	1.2	•	•	
Micron	MTA16ATF2G64AZ-2G3B1	16GB	17-17-17-39	1.2	•		
panram	W4U2400PS-8G	8GB	14-14-14-31	-	•	•	
PATRIOT	PVE416G240C5KRD(XMP)	2x 8GB	15-15-15-35	-	•		
PATRIOT	PVE48G240C5KRD(XMP)	2x 4GB	15-15-15-35	-	•		
SK Hynix	HMA81GU6AFR8N-UH	8GB	17-17-17-39	-	•	•	
Team	TCD48G2400C14BK(XMP)	8GB	15-16-16-31	1.2	•		
Team	TED464G2400C16DC01	2x 32GB	16-16-16-39	1.2	•		
Team	TF4D48G2400HC15BBK(XMP)	8GB	15-17-17-35	1.2	•		
Team	TPD464G2400HC16DC01	2x 32GB	16-16-16-39	1.2	•		
Team	TED432G2400C16BK	32GB	16-16-16-39	1.2	•	•	•

#### 8-DIMM

- **4 DIMM:** Supports 4 modules inserted into both the A1, B1, C1, and D1 slots as one set of DIMMs operating in a quad-channel memory configuration
- **8 DIMM:** Supports 8 modules inserted into all slots as two sets DIMMs operating in a quad-channel memory configuration

DDR4 2666 Qualified Vendors List (QVL)							
Vendors	Part No.	Size	Timing	Voltage	DIMM socket support (Optional)		
					2 DIMM	4 DIMM	8 DIMM
<b>AITC</b>	AID48G26RDZ	8GB	19-19-19-43	-	•	•	
<b>Antec</b>	AMD4UZ126661608G-5S(XMP)	8GB	16-18-18-35	1.2	•	•	
<b>Apacer</b>	AHU08GGB26CDU7G(XMP)	8GB	16-16-16-36	1.2	•	•	
<b>Apacer</b>	AU04GGB26CQTBGH	4GB	19-19-19-43	-	•	•	
<b>Asgard</b>	VMA42UH-MEC1U2AJ2(XMP)	16GB	19-19-19-43	1.2	•	•	
<b>CORSAIR</b>	CMD128GX4M8A2666C15(Ver4.31)(XMP)	8x 16GB	15-15-15-36	1.2	•	•	•
<b>CORSAIR</b>	CMD64GX4M8A2666C15(Ver5.32)(XMP)	8x 8GB	15-17-17-35	1.2	•	•	
<b>CORSAIR</b>	CMK128GX4M8A2666C16(Ver3.31)(XMP)	8x 16GB	16-18-18-35	1.2	•	•	•
<b>CORSAIR</b>	CMK128GX4M8A2666C16(Ver3.32)(XMP)	8x 16GB	16-18-18-35	1.2	•	•	•
<b>CORSAIR</b>	CMV32GX4M1A2666C18	32GB	18-18-18-43	1.2	•	•	
<b>crucial</b>	BLS16G4D26BFSB.16FD(XMP)	16GB	16-18-18-38	1.2	•	•	•
<b>crucial</b>	BLS4G4D26BFSB.8FB(XMP)	4GB	16-18-18-38	1.2	•	•	
<b>crucial</b>	BLS8G4D26BFSBK.8FD(XMP)	8GB	16-18-18-38	1.2	•	•	
<b>Crucial</b>	CT16G4DFD8266.M16FE	16GB	19-19-19-43	1.2	•	•	•
<b>crucial</b>	CT32G4DFD8266.16FB1	32GB	19-19-19-43	1.2	•	•	
<b>G.SKILL</b>	F4-2666C15Q-32GRR(XMP)	4x 8GB	15-15-15-35	1.2	•	•	
<b>G.SKILL</b>	F4-2666C16Q2-128GVK(XMP)	8x 16GB	16-16-16-36	1.2	•	•	
<b>Gell</b>	GREXR432GB2666C16QC(XMP)	4x 8GB	16-18-18-36	1.35	•	•	
<b>Gell</b>	GREXR464GB2666C16QC(XMP)	4x 16GB	16-18-18-36	1.35	•	•	
<b>Hyper X</b>	HX426C13SB2K4/32(XMP)	4x 8GB	15-15-15-36	1.35	•		
<b>Hyper X</b>	HX426C15SBK4/64(XMP)	4x 16GB	15-15-15-35	1.2	•		
<b>Hyper X</b>	HX426C16FB3AK4/64(XMP)	4x 16GB	16-18-18-39	1.2	•	•	
<b>INNODISK</b>	M4C0-8GS1LCIK-E93	8GB	19-19-19-43	1.2	•	•	
<b>INNODISK</b>	M4C0-8GSSMCIK-E93	8GB	19-19-19-43	1.2	•	•	
<b>INNODISK</b>	M4C0-AGS1MCIK-E93	16GB	19-19-19-43	1.2	•	•	
<b>J&amp;A</b>	JRLL4U2666172408-8M	8GB	19-19-19-43	1.2	•	•	
<b>Kingston</b>	KSM26RD4/32MEI	32GB	-	-	•	•	
<b>Kingston</b>	KSM26RS4/16MEI	16GB	-	-	•	•	•
<b>Kingston</b>	KSM26RS8/8MEI	8GB	-	-	•	•	•
<b>Kingston</b>	KVR26N19D8/16	16GB	19-19-19-43	1.2	•	•	•
<b>Kingston</b>	KVR26N19D8/16I	16GB	19-19-19-43	1.2	•	•	•
<b>Kingston</b>	KVR26N19S8/8	8GB	19-19-19-43	1.2	•	•	
<b>Klevv</b>	KD44GU481-26N1600(XMP)	4GB	16-18-18-38	1.2	•	•	
<b>Klevv</b>	KD48GU481-26N1600(XMP)	8GB	16-18-18-38	1.2	•	•	
<b>Micron</b>	MTA16ATF2G64AZ-2G6E1	16GB	19-19-19-43	1.2	•	•	
<b>Micron</b>	MTA8ATF1G64AZ-2G6E1	8GB	19-19-19-43	1.2	•	•	
<b>NEO FORZA</b>	NMUD416E82-2666EA10	16GB	19-19-19-43	1.2	•	•	•
<b>NEO FORZA</b>	NMUD480E82-2666EA10	8GB	19-19-19-43	1.2	•	•	•
<b>panram</b>	W4U2666PS-16G	2x 16GB	16-18-18-35	1.2	•		
<b>panram</b>	W4U2666PS-8G	2x 8GB	16-18-18-35	1.2	•		
<b>Patriot</b>	PVR416G266C5K(XMP)	2x 8GB	15-17-17-35	1.2	•		
<b>SK Hynix</b>	HMA81GU6CJR8N-VK	8GB	19-19-19-43	1.2	•	•	
<b>SK Hynix</b>	HMA82GU6CJR8N-VK	16GB	19-19-19-43	-	•	•	

<b>SK Hynix</b>	HMA82GU7CJR8N-VK	16GB	19-19-19-43	-	•	•	•
<b>SK Hynix</b>	HMAA4GU6AJR8N-VK	32GB	19-19-19-43	-	•	•	•
<b>CORSAIR</b>	CMK256GX4M8A2666C16	8x 32GB	16-18-18-35	1.2	•	•	•
<b>G.SKILL</b>	F4-2666C18Q2-256GVK	8x 32GB	18-18-18-43	1.2	•	•	•
<b>Team</b>	TED432G266C19BK	32GB	19-19-19-43	1.2	•	•	•
<b>SL LINK</b>	J4AGUH1G8QHBC	16GB	19-19-19-43	1.2	•	•	•
<b>Team</b>	TED432G2666C19BK	32GB	19-19-19-43	1.2	•	•	
<b>Team</b>	TED44G2666C19BK	4GB	19-19-19-43	1.2	•	•	
<b>Team</b>	TPD432G2666HC19QC01	4x 8GB	19-19-19-43	1.2	•	•	
<b>Tigo</b>	TMKG8G2666C16(XMP)	8GB	16-18-18-38	1.2	•	•	
<b>V-color</b>	TE416G26D819	8x 2GB	19-19-19-43	1.2	•	•	

#### 8-DIMM

- **4 DIMM:** Supports 4 modules inserted into both the A1, B1, C1, and D1 slots as one set of DIMMs operating in a quad-channel memory configuration
- **8 DIMM:** Supports 8 modules inserted into all slots as two sets DIMMs operating in a quad-channel memory configuration

DDR4 2933 Qualified Vendors List (QVL)							
Vendors	Part No.	Size	Timing	Voltage	DIMM socket support (Optional)		
					2 DIMM	4 DIMM	8 DIMM
Hyper X	HX429C17FB/4	4GB	17-19-19-39	1.2	•	•	
Hyper X	HX429C17FBK2/8	2x 4GB	17-19-19-39	1.2	•		
Hyper X	HX429C17FBK4/16	4x 4GB	17-19-19-39	1.2	•	•	

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- **8 DIMM:** Supports 8 modules inserted into all slots as two sets DIMMs operating in a quad-channel memory configuration

- Please ensure all memory modules are from a single validated kit. Do not combine DIMMs from multiple kits—even if they are the same make and model. Mixing and matching DIMMs can result in failure to boot and compatibility cannot be guaranteed.
- At default UEFI settings, the memory operating frequency depends on the Serial Presence Detect (SPD) profile the kit is programmed with, which is the standard way of accessing information from a module. To set the rated speed of the kit, please select XMP or apply manual settings.
- The stability and compatibility of XMP memory kits that operate beyond the JEDEC standard is not guaranteed because it can be affected by the capabilities of the CPU's integrated memory controller, installed devices, and the operating frequency of associated bus domains.