

Intel Platform Memory Operations

Intel® Xeon® Processor D-1500 Product Family DDR4 2133/2400 ECC SoDIMM Validation Results

Listed below are the results from a small sample of DDR4 2133/2400 ECC SoDIMM modules tested on Intel reference microserver platforms based on Intel® Xeon® D-1500 Processor Family (formerly Broadwell-DE). These DIMMs have been tested at 2DIMM/channel, 2 channels loading configuration at 1.2V. This information provided as a guide to module performance with Intel reference platforms and not intended to replace the normal OEM component qualification process. For results on specific OEM production motherboards, please refer to the respective OEM's list of qualified memory suppliers' parts.

DDR4-2133 (15-15-15) 1.2V, ECC SoDIMM, 2DIMM/ch, 2 channels

DIMM supplier	DIMM Part #	DIMM Size	DRAM Tech	DIMM Speed	# of Ranks	Raw Card	DRAM supplier	DRAM Part#	DRAM Density	DRAM Width	Date Code	Die Rev
ADATA	AD4B2133W8G11-BHYM	8GB	DDR4	2133	2R	G0	SK hynix	H5AN4G8NMFR-TFC	4Gb	x8	1446	M
Kingston	KVR21SE15D8/8	8GB	DDR4	2133	2R	G0	SK hynix	H5AN4G8NMFR-TFC	4Gb	x8	1432	M
Kingston	KVR21SE15S8/4	4GB	DDR4	2133	1R	D0	SK hynix	H5AN4G8NMFR-TFC	4Gb	x8	1432	M
Kingston	KVR21SE15D8/8	8GB	DDR4	2133	2R	G0	SK hynix	H5AN4G8NAFR-TFC	4Gb	x8	1546	A
Kingston	KVR21SE15S8/4	4GB	DDR4	2133	1R	D0	SK hynix	H5AN4G8NAFR-TFC	4Gb	x8	1546	A

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Micron	MTA18ASF1G72HZ-2G1A1	8GB	DDR4	2133	2R	F0	Micron	MT40A512M8HX-093E:A	4Gb	x8	1420	A
Crucial	CT8G4TFD8213.18FA1	8GB	DDR4	2133	2R	F0	Micron	MT40A512M8HX-093E:A	4Gb	x8	1420	A
Samsung	M474A1G43DB0-CPB	8GB	DDR4	2133	2R	G0	Samsung	K4A4G085WD-BCPB	4Gb	x8	1501	D
Samsung	M474A1G43EB1-CPB	8GB	DDR4	2133	2R	G0	Samsung	K4A4G085WE-BCPB	4Gb	x8	1610	E
Samsung	M474A2K43BB1-CPB	16GB	DDR4	2133	2R	G0	Samsung	K4A8G085WB-BCPB	8Gb	x8	1501	B
SK hynix	HMA41GS7AFR8N-TFT0	8GB	DDR4	2133	2R	G0	SK hynix	H5AN4G8NAFR-TFC	4Gb	x8	1546	A
SK hynix	HMA451S7AFR8N-TFT0	4GB	DDR4	2133	1R	D0	SK hynix	H5AN4G8NAFR-TFC	4Gb	x8	1546	A
SK hynix	HMA81GS7MFR8N-TFT0	8GB	DDR4	2133	1R	D0	SK hynix	H5AN8G8NMFR-TFC	8Gb	x8	1546	M
SK hynix	HMA82GS7MFR8N-TFT0	16GB	DDR4	2133	2R	H0	SK hynix	H5AN8G8NMFR-TFC	8Gb	x8	1546	M
SK hynix	HMA81GS7AFR8N-TFT0	8GB	DDR4	2133	1R	D1	SK hynix	H5AN8G8NAFR-TFC	8Gb	x8	1643	A
SK hynix	HMA82GS7AFR8N-TFT0	16GB	DDR4	2133	2R	G1	SK hynix	H5AN8G8NAFR-TFC	8Gb	x8	1643	A
Smart	SH1027SO451851SD	8GB	DDR4	2133	2R	F0	Samsung	K4A4G085WD-BCPB	4Gb	x8	1428	D

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DDR4-2400 (17-17-17) 1.2V, ECC SoDIMM, 2DIMM/ch, 2 channels

DIMM Supplier	DIMM Part #	DIMM Size	DRAM Tech	DIMM Speed	# of ranks	Raw Card	DRAM Supplier	DRAM Part #	DRAM Density	DRAM width	Date Code	Die Rev
Samsung	M474A1G43DB1-CRC	8GB	DDR4	2400	2R	G1	Samsung	K4A4G085WD-BCRC	4Gb	x8	1512	D
Samsung	M474A1G43EB1-CRC	8GB	DDR4	2400	2R	G1	Samsung	K4A4G085WE-BCRC	4Gb	x8	1610	E
Samsung	M474A2K43BB1-CRC	16GB	DDR4	2400	2R	G1	Samsung	K4A8G085WB-BCRC	8Gb	x8	1513	B
Micron	MTA18ASF2G72HZ-2G3A1*	16GB	DDR4	2400	2R	H0	Micron	MT40A1G8PM-083E:A	8Gb	x8	1526	A
Micron	MTA18ASF2G72HZ-2G3B1*	16GB	DDR4	2400	2R	H0	Micron	MT40A1G8WE-083E:B	8Gb	x8	1606	B
Micron	MTA18ASF1G72HZ-2G3B1	8GB	DDR4	2400	2R	H0	Micron	MT40A512M8RH-075E:B	4Gb	x8	1618	B
Crucial	CT16G4TFD824A.18FA1*	16GB	DDR4	2400	2R	H0	Micron	MT40A1G8PM-083E:A	8Gb	x8	1618	A

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Crucial	CT8G4TFS824A.18FB1	8GB	DDR4	2400	2R	H0	Micron	MT40A512M8RH-075E:B	4Gb	x8	1618	B
Crucial	CT16G4TFD824A.18FB1*	16GB	DDR4	2400	2R	H0	Micron	MT40A1G8WE-083E:B	8Gb	x8	1606	B
Kingston	KVR24SE17D8/16*	16GB	DDR4	2400	2R	H0	Micron	MT40A1G8PM-083E:A	8Gb	x8	1618	A
Kingston	KVR24SE17D8/16*	16GB	DDR4	2400	2R	H0	Micron	MT40A1G8WE-083E:B	8Gb	x8	1606	B
Kingston	KVR24SE17S8/4	4GB	DDR4	2400	1R	D1	Micron	MT40A512M8RH-083E:B	4Gb	x8	1628	B
Kingston	KVR24SE17D8/8	8GB	DDR4	2400	2R	G1	Micron	MT40A512M8RH-083E:B	4Gb	x8	1628	B
Kingston	KVR24SE17S8/8	8GB	DDR4	2400	1R	D1	Micron	MT40A1G8PM-083E:A	8Gb	x8	1624	A
Kingston	KVR24SE17S8/4	4GB	DDR4	2400	1R	D1	SK hynix	H5AN4G8NAFR-UHC	4Gb	x8	1546	A
Kingston	KVR24SE17D8/8	8GB	DDR4	2400	2R	G1	SK hynix	H5AN4G8NAFR-UHC	4Gb	x8	1546	A
Kingston	KVR24SE17S8/8	8GB	DDR4	2400	1R	D1	SK hynix	H5AN8G8NAFR-UHC	8Gb	x8	1636	A
Kingston	KVR24SE17D8/16	16GB	DDR4	2400	2R	G1	SK hynix	H5AN8G8NAFR-UHC	8Gb	x8	1636	A
SK hynix	HMA81GS7AFR8N-UHT0	8GB	DDR4	2400	1R	D1	SK hynix	H5AN8G8NAFR-UHC	8Gb	x8	1641	A
SK hynix	HMA82GS7AFR8N-UHT0	16GB	DDR4	2400	2R	G1	SK hynix	H5AN8G8NAFR-UHC	8Gb	x8	1641	A

* Requires MRC 3.8.0 or later

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Approved Validation Labs for system-level DIMM validation

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