

Intel Platform Memory Operations

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UDIMM ECC System-Level Validation Results on Intel® Xeon® E5-2600 v2 processor Family

Listed below are the results from a small sample of DDR3 UDIMM ECC tested on Intel® Xeon® E5-2600 processor. We are providing this information as a guide to module compatibility with Intel server reference platforms. This testing is not intended to replace the normal OEM qualification process. For results on specific Intel® motherboards or OEM production motherboards, please refer to the OEM's list of qualified memory suppliers.

This configuration validated only for the same supplier and same part number across memory channels

Updated / New Part

UDIMM ECC SR/DR DDR3-1866 1.5V 1DIMM Per Channel / 3Slot Per Channel/ 4Channel

DIMM					DRAM					
Supplier	Part Number	Size	CL	Raw Card	Supplier	Part Number	Density Die	Width	Date Code	Note
Crucial	CT102472BA186D.18FED	8GB	13	E	Micron	MT41K512M8RH-107:E	4Gb	x8	1328	
Crucial	CT51272BA186D.18FKD	4GB	13	E	Micron	MT41K256M8DA-107:K	2Gb	x8	1328	
Elpida	EBJ81EG8BFWA-JS-F	8GB	13	E	Elpida	EDJ4208BFBG-JS-F	4Gb	x8	1311	
Elpida	EBJ40EG8BFWA-JS-F	4GB	13	D	Elpida	EDJ4208BFBG-JS-F	4Gb	x8	1311	
Kingston	KVR18E13/8	8GB	13	E	SK Hynix	H5TQ4G83BFR-RDC	4Gb	x8	1436	
Micron	MT9JSF25672AZ-1G9K1	2GB	13	D	Micron	MT41K256M8DA-107:K	2Gb	x8	1328	
Micron	MT18JSF1G72AZ-1G9E1	8GB	13	E	Micron	MT41K512M8RH-107:E	4Gb	x8	1328	
Micron	MT18JSF51272AZ-1G9K1	4GB	13	E	Micron	MT41K256M8DA-107:K	2Gb	x8	1328	
Samsung	M391B1G73QH0-CMA	8GB	13	E	Samsung	K4B4G0846Q-HCMA	4Gb	x8	1328	
Samsung	M391B5173QH0-CMA	4GB	13	D	Samsung	K4B4G0846Q-HCMA	4Gb	x8	1328	
SK hynix	HMT325U7EFR8C-RD	2GB	13	D	SK hynix	H5TQ2G83EFR-RDC	2Gb	x8	1318	
SK hynix	HMT351U7EFR8C-RD	4GB	13	E	SK hynix	H5TQ2G83EFR-RDC	2Gb	x8	1318	
SK hynix	HMT451U7AFR8C-RD	4GB	13	D	SK hynix	H5TQ4G83AFR-RDC	4Gb	x8	1318	
SK hynix	HMT41GU7AFR8C-RD	8GB	13	E	SK hynix	H5TQ4G83AFR-RDC	4Gb	x8	1318	

UDIMM ECC SR/DR DDR3L-1600 1.35V 1DIMM Per Channel / 1Slot Per Channel 4Channel

DIMM					DRAM					
Supplier	Part Number	Size	CL	Raw Card	Supplier	Part Number	Density Die	Width	Date Code	Note
Crucial	CT102472BD160B.18FED	8GB	11	E	Micron	MT41K512M8RH-125:E	4Gb	x8	1328	
Elpida	EBJ81EG8EFWA-GN-F	8GB	11	E	Elpida	EDJ4208EFBG-GN-F	4Gb	x8	1324	
Elpida	EBJ40EG8EFWA-GN-F	4GB	11	D	Elpida	EDJ4208EFBG-GN-F	4Gb	x8	1324	
Kingston	KVR16LE11S8/4KF	4GB	11	D	Kingston	D5128ED1FPGGB	4Gb	x8	1352	
Kingston	KVR16LE11/8KF	8GB	11	E	Kingston	D5128ED1FPGGB	4Gb	x8	1345	

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UDIMM ECC SR/DR DDR3L-1600 1.35V 1DIMM Per Channel / 1Slot Per Channel 4Channel										
DIMM					DRAM					
Supplier	Part Number	Size	CL	Raw Card	Supplier	Part Number	Density Die	Width	Date Code	Note
Kingston	KVR16LE11/8	8GB	11	E	SK Hynix	H5TQ4G83BFR-PBA	4Gb	x8	1434	
Micron	MT18KSF1G72AZ-1G6E1	8GB	11	E	Micron	MT41K512M8RH-125:E	4Gb	x8	1328	
Samsung	M391B5173QH0-YK0	4GB	11	D	Samsung	K4B4G0846Q-HYK0	4Gb	x8	1328	
Samsung	M391B1G73QH0-YK0	8GB	11	E	Samsung	K4B4G0846Q-HYK0	4Gb	x8	1328	
SK hynix	HMT325U7EFR8A-PB	2GB	11	D	SK hynix	H5TC2G83EFR-PBA	2Gb	x8	1318	
SK hynix	HMT351U7EFR8A-PB	4GB	11	E	SK hynix	H5TC2G83EFR-PBA	2Gb	x8	1318	
SK hynix	HMT451U7AFR8A-PB	4GB	11	D	SK hynix	H5TC4G83AFR-PBA	4Gb	x8	1318	
SK hynix	HMT41GU7AFR8A-PB	8GB	11	E	SK hynix	H5TC4G83AFR-PBA	4Gb	x8	1318	
SK Hynix	HMT451U7BFR8A-PB	4GB	11	D	SK Hynix	H5TC4G83BFR-PBA	4Gb	x8	1413	
SK Hynix	HMT41GU7BFR8A-PB	8GB	11	E	SK Hynix	H5TC4G83BFR-PBA	4Gb	x8	1413	

UDIMM ECC SR/DR DDR3-1600 1.5V 2DIMM Per Channel /3Slot Per Channel/ 4Channel										
DIMM					DRAM					
Supplier	Part Number	Size	CL	Raw Card	Supplier	Part Number	Density Die	Width	Date Code	Note
Crucial	CT102472BD160B.18FED	8GB	11	E	Micron	MT41K512M8RH-125:E	4Gb	x8	1328	
Elpida	EBJ81EG8EFWA-GN-F	8GB	11	E	Elpida	EDJ4208EFBG-GN-F	4Gb	x8	1311	
Elpida	EBJ40EG8EFWA-GN-F	4GB	11	D	Elpida	EDJ4208EFBG-GN-F	4Gb	x8	1311	
Kingston	KVR16E11/8KF	8GB	11	E	Kingston	D5128ED1FPGGB	4Gb	x8	1345	
Kingston	KVR16E11S8/4KF	4GB	11	D	Kingston	D5128ED1FPGGB	4Gb	x8	1401	
Micron	MT18KSF1G72AZ-1G6E1	8GB	11	E	Micron	MT41K512M8RH-125:E	4Gb	x8	1328	
Samsung	M391B5173QH0-YK0	4GB	11	D	Samsung	K4B4G0846Q-HYK0	4Gb	x8	1328	
Samsung	M391B5173QH0-CMA	4GB	11	D	Samsung	K4B4G0846Q-HCMA	4Gb	x8	1328	
Samsung	M391B1G73QH0-CMA	8GB	11	E	Samsung	K4B4G0846Q-HCMA	4Gb	x8	1349	
SK hynix	HMT325U7EFR8A-PB	2GB	11	D	SK hynix	H5TC2G83EFR-PBA	2Gb	x8	1318	
SK hynix	HMT351U7EFR8A-PB	4GB	11	E	SK hynix	H5TC2G83EFR-PBA	2Gb	x8	1318	
SK hynix	HMT451U7AFR8A-PB	4GB	11	D	SK hynix	H5TC4G83AFR-PBA	4Gb	x8	1318	
SK hynix	HMT41GU7AFR8A-PB	8GB	11	E	SK hynix	H5TC4G83AFR-PBA	4Gb	x8	1318	

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UDIMM ECC SR/DR DDR3-1333 1.5V 2DIMM Per Channel /3 Slot per Channel 4Channel										
DIMM					DRAM					
Supplier	Part Number	Size	CL	Raw Card	Supplier	Part Number	Density Die	Width	Date Code	Note
SK hynix	HMT41GU7AFR8A-H9	8GB	9	E	SK hynix	H5TC4G83AFR-H9A	4Gb	x8	1318	
SK hynix	HMT451U7AFR8A-H9	4GB	9	D	SK hynix	H5TC4G83AFR-H9A	4Gb	x8	1318	

Updated on Jan 16, 2015

Approved Test Labs:

The following test labs have the capability of performing the DDR3 UDIMM ECC system-level testing. For further information please contact:

Platform Memory Operations Lab

Advanced Validation Labs

Rhonda Duda, Program Manager

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