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Intel® Xeon® Processor 7500 Series (Nehalem-EX) DDR3 RDIMM System-level Validation Results

Listed below are the results of testing a small sample of DDR3 RDIMMs on Boxboro-EX platform based on Intel® Xeon® 7500 processors (code name Nehalem-EX) and Intel Memory Buffer (code name Millbrook). We are providing this information as a guide to module compatibility with Intel® server reference platforms using Intel® Xeon® 7500 processors code named Nehalem-EX. This testing is not intended to replace the normal OEM component qualification process. For results on specific Intel® motherboards or OEM production motherboards, please refer to the OEM's list of qualified memory suppliers.

DDR3-800, 978 and 1066 RDIMM Validation Results

The below samples have successfully completed validation testing at speed of DDR3 800, 978, and 1066 on Boxboro-EX platform with Intel Xeon 7500 processor (Nehalem-EX) and Intel Memory Buffer (Millbrook).

Updated / New Parts

RDIMM DDR3 800/978/1066 SR/DR/QR @ 2 DIMMs/Channel												
DIMM					DRAM					Register		
Supplier	Part Number	Size	CL	Raw Card	Supplier	Part Number	Density Die	Width	Date Code	Vendor	Revision	Note
Hynix	HMT112R7BFR8C-H9	1GB	7	A	Hynix	H5TQ1G83BFR-H9C	1Gb	x8	1009	IDT	B	
Hynix	HMT112R7BFR8C-H9	1GB	7	A	Hynix	H5TQ1G83BFR-H9C	1Gb	x8	1009	TI	PG3.1	
Hynix	HMT325R7BFR8C-H9	2GB	7	A	Hynix	H5TQ2G83BFR-H9C	2Gb	x8	1010	IDT	B	
Hynix	HMT325R7BFR8C-H9	2GB	7	A	Hynix	H5TQ2G83BFR-H9C	2Gb	x8	1009	Inphi	GS02	
Hynix	HMT125R7BFR8C-H9	2GB	7	B	Hynix	H5TQ1G83BFR-H9C	1Gb	x8	1009	IDT	B	
Hynix	HMT125R7BFR8C-H9	2GB	7	B	Hynix	H5TQ1G83BFR-H9C	1Gb	x8	1009	TI	PG3.1	
Hynix	HMT125R7TFR8C-H9	2GB	7	B	Hynix	H5TQ1G83TFR-H9C	1Gb	x8	0953	IDT	B	
Hynix	HMT125R7TFR8C-H9	2GB	7	B	Hynix	H5TQ1G83TFR-H9C	1Gb	x8	1013	Inphi	GS02	
Hynix	HMT351R7AFR8C-H9	4GB	7	B	Hynix	H5TQ2G83AFR-H9C	2Gb	x8	0946	TI	PG3.1	
Hynix	HMT351R7AFR8C-H9	4GB	7	B	Hynix	H5TQ2G83AFR-H9C	2Gb	x8	0948	IDT	B	
Hynix	HMT351R7BFR8C-H9	4GB	7	B	Hynix	H5TQ2G83BFR-H9C	2Gb	x8	1014	IDT	B	

Intel Platform Memory Operations

RDIMM DDR3 800/978/1066 SR/DR/QR @ 2 DIMMs/Channel												
DIMM					DRAM					Register		
Supplier	Part Number	Size	CL	Raw Card	Supplier	Part Number	Density Die	Width	Date Code	Vendor	Revision	Note
Hynix	HMT351R7BFR8C-H9	4GB	7	B	Hynix	H5TQ2G83BFR-H9C	2Gb	x8	1009	Inphi	GS02	
Hynix	HMT125R7BFR4C-H9	2GB	7	C	Hynix	H5TQ1G43BFR-H9C	1Gb	x4	1009	IDT	B	
Hynix	HMT125R7BFR4C-H9	2GB	7	C	Hynix	H5TQ1G43BFR-H9C	1Gb	x4	1009	TI	PG3.1	
Hynix	HMT351R7BFR4C-H9	4GB	7	C	Hynix	H5TQ2G43BFR-H9C	2Gb	x4	1014	IDT	B	
Hynix	HMT351R7BFR4C-H9	4GB	7	C	Hynix	H5TQ2G43BFR-H9C	2Gb	x4	1010	Inphi	GS02	
Hynix	HMT151R7BFR4C-G7	4GB	7	E	Hynix	H5TQ1G43BFR-G7C	1Gb	x4	1009	IDT	B	
Hynix	HMT151R7BFR4C-G7	4GB	7	E	Hynix	H5TQ1G43BFR-G7C	1Gb	x4	1009	TI	PG3.1	
Hynix	HMT151R7TFR4C-H9	4GB	7	E	Hynix	H5TQ1G43TFR-H9C	1Gb	x4	1009	IDT	B	
Hynix	HMT151R7TFR4C-H9	4GB	7	E	Hynix	H5TQ1G43TFR-H9C	1Gb	x4	1003	Inphi	GS02	
Hynix	HMT31GR7AFR4C-H9	8GB	7	E	Hynix	H5TQ2G43AFR-H9C	2Gb	x4	0948	TI	PG3.1	
Hynix	HMT31GR7AFR4C-H9	8GB	7	E	Hynix	H5TQ2G43AFR-H9C	2Gb	x4	0948	IDT	B	
Hynix	HMT31GR7BFR4C-H9	8GB	7	E	Hynix	H5TQ2G43BFR-H9C	2Gb	x4	1014	IDT	B	
Hynix	HMT31GR7BFR4C-H9	8GB	7	E	Hynix	H5TQ2G43BFR-H9C	2Gb	x4	1013	Inphi	GS02	
Hynix	HMT151R7BFR8C-H9	4GB	7	H	Hynix	H5TQ1G83BFR-H9C	1Gb	x8	1009	TI	PG3.1	
Hynix	HMT151R7BFR8C-G7	4GB	7	H	Hynix	H5TQ1G83BFR-G7C	1Gb	x8	0952	IDT	B	
Hynix	HMT151R7TFR8C-G7	4GB	7	H	Hynix	H5TQ1G83TFR-H9C	1Gb	x8	1009	IDT	B	
Hynix	HMT151R7TFR8C-G7	4GB	7	H	Hynix	H5TQ1G83TFR-H9C	1Gb	x8	0953	Inphi	GS02	
Hynix	HMT31GR7AFR8C-G7	8GB	7	H	Hynix	H5TQ2G83AFR-G7C	2Gb	x8	0948	IDT	B	
Hynix	HMT31GR7AFR8C-G7	8GB	7	H	Hynix	H5TQ2G83AFR-G7C	2Gb	x8	0948	TI	PG3.1	
Hynix	HMT31GR7BFR8C-G7	8GB	7	H	Hynix	H5TQ2G83BFR-G7C	2Gb	x8	1019	IDT	B	
Hynix	HMT31GR7BFR8C-G7	8GB	7	H	Hynix	H5TQ2G83BFR-G7C	2Gb	x8	1019	Inphi	GS02	
Hynix	HMT31GR7AMP4C-G7	8GB	7	F	Hynix	H5TQ2G43AMP-G7C	1Gb	x4	1009	IDT	B	1
Hynix	HMT31GR7AMP4C-G7	8GB	7	F	Hynix	H5TQ2G43AMP-G7C	1Gb	x4	1009	TI	PG3.1	1
Hynix	HMT42GR7AMR4C-G7	16GB	7	AB	Hynix	H5TQ4G43AMR-G7C	2Gb	x4	0948	IDT	B	1
Hynix	HMT42GR7AMR4C-G7	16GB	7	AB	Hynix	H5TQ4G43AMR-G7C	2Gb	x4	0948	TI	PG3.1	1
Hynix	HMT42GR7BMR4C-G7	16GB	7	F	Hynix	H5TQ4G43BMR-G7C	2Gb	x4	1030	Inphi	GS02	1
Hynix	HMT42GR7BMR4C-G7	16GB	7	F	Hynix	H5TQ4G43BMR-G7C	2Gb	x4	1030	IDT	B	1

Intel Platform Memory Operations

RDIMM DDR3 800/978/1066 SR/DR/QR @ 2 DIMMs/Channel												
DIMM					DRAM					Register		
Supplier	Part Number	Size	CL	Raw Card	Supplier	Part Number	Density Die	Width	Date Code	Vendor	Revision	Note
Micron	MT9JSF12872PZ-1G4F1	1GB	7	A	Micron	MT41J128M8JP-15E	1Gb	x8	0926	IDT	B	
Micron	MT9JSF25672PZ-1G4D1	2GB	7	A	Micron	MT41J256M8HX-15E:D	2Gb	X8	1012	IDT	B	
Micron	MT9JSF25672PZ-1G4D1	2GB	7	A	Micron	MT41J256M8HX-15E:D	2Gb	X8	1012	Inphi	GS02	
Micron	MT9JSF25672PZ-1G4D1	2GB	7	A	Micron	MT41J256M8HX-15E:D	2Gb	X8	1012	TI	V4.2	
Micron	MT18JSF25672PDZ-1G4F1	2GB	7	B	Micron	MT41J128M8JP-15E	1Gb	x8	0906	IDT	B	
Micron	MT18JSF51272PDZ-1G4D1	4GB	7	B	Micron	MT41J256M8HX-15E:D	2Gb	X8	1008	IDT	B	
Micron	MT18JSF51272PDZ-1G4D1	4GB	7	B	Micron	MT41J256M8HX-15E:D	2Gb	X8	1008	Inphi	GS02	
Micron	MT18JSF51272PDZ-1G4D1	4GB	7	B	Micron	MT41J256M8HX-15E:D	2Gb	X8	1008	TI	V4.2	
Micron	MT18JSF25672PZ-1G4F1	2GB	7	C	Micron	MT41J256M4JP-15E	1Gb	x4	0914	Inphi	GS04	
Micron	MT18JSF51272PZ-1G4D1	4GB	7	C	Micron	MT41J512M4HX-15E:D	2Gb	X4	1014	IDT	B	
Micron	MT18JSF51272PZ-1G4D1	4GB	7	C	Micron	MT41J512M4HX-15E:D	2Gb	X4	1014	Inphi	GS02	
Micron	MT18JSF51272PZ-1G4D1	4GB	7	C	Micron	MT41J512M4HX-15E:D	2Gb	X4	1014	TI	V4.2	
Micron	MT36JSZF51272PZ-1G4F1	4GB	7	J	Micron	MT41J256M4JP-15E	1Gb	x4	0916	Inphi	GS04	
Micron	MT36JSZF1G72PZ-1G4D1	8GB	7	J	Micron	MT41J512M4HX-15E:D	2Gb	X4	1008	IDT	B	
Micron	MT36JSZF1G72PZ-1G4D1	8GB	7	J	Micron	MT41J512M4HX-15E:D	2Gb	X4	1008	Inphi	GS02	
Micron	MT36JSZF1G72PZ-1G4D1	8GB	7	J	Micron	MT41J512M4HX-15E:D	2Gb	X4	1008	TI	V4.2	
Micron	MT72JSZS2G72PZ-1G1D1	16GB	7	F	Micron	MT41J1G4THD-187E:D	2Gb	X4	1040	IDT	B	1
Micron	MT72JSZS2G72PZ-1G1D1	16GB	7	F	Micron	MT41J1G4THD-187E:D	2Gb	X4	1040	Inphi	GS02	1
Samsung	M393B2873EH1-CH9	1GB	7	A	Samsung	K4B1G084GE-HCH9	1Gb	x8	1008	Inphi	GS04	
Samsung	M393B2873EH1-CH9	1GB	7	A	Samsung	K4B1G0846E-HCH9	1Gb	x8	1008	IDT	B	
Samsung	M393B2873FH0-YH9	1GB	6	A	Samsung	K4B1G0846F-HYH9	1Gb	X8	1016	IDT	B	
Samsung	M393B2873FH0-YH9	1GB	6	A	Samsung	K4B1G0846F-HYH9	1Gb	X8	1017	Inphi	LV-GS02	
Samsung	M393B5773CH0-YH9	2GB	6	A	Samsung	K4B2G0846C-HYH9	2Gb	X8	1018	IDT	B	
Samsung	M393B5773CH0-YH9	2GB	6	A	Samsung	K4B2G0846C-HYH9	2Gb	X8	1018	Inphi	LV-GS02	
Samsung	M393B5673EH1-CH9	2GB	7	B	Samsung	K4B1G0846E-HCH9	1Gb	x8	1008	IDT	B	
Samsung	M393B5673EH1-CH9	2GB	7	B	Samsung	K4B1G0846E-HCH9	1Gb	x8	1008	Inphi	GS04	
Samsung	M393B5673FH0-YH9	2GB	6	B	Samsung	K4B1G0846F-HYH9	1Gb	X8	0949	IDT	B	

Intel Platform Memory Operations

RDIMM DDR3 800/978/1066 SR/DR/QR @ 2 DIMMs/Channel												
DIMM					DRAM					Register		
Supplier	Part Number	Size	CL	Raw Card	Supplier	Part Number	Density Die	Width	Date Code	Vendor	Revision	Note
Samsung	M393B5673FH0-YH9	2GB	6	B	Samsung	K4B1G0846F-HYH9	1Gb	X8	1016	Inphi	LV-GS02	
Samsung	M393B5273BH1-CH9	4GB	7	B	Samsung	K4B2G0846B-HCH9	2Gb	x8	0940	IDT	B	
Samsung	M393B5670EH1-CH9	2GB	7	C	Samsung	K4B1G0446E-HCF9	1Gb	x4	1008	IDT	B	
Samsung	M393B5670EH1-CH9	2GB	7	C	Samsung	K4B1G0446E-HCH9	1Gb	x4	1008	Inphi	GS04	
Samsung	M393B5670FH0-YH9	2GB	6	C	Samsung	K4B1G0446F-HYH9	1Gb	X4	1019	IDT	B	
Samsung	M393B5670FH0-YH9	2GB	6	C	Samsung	K4B1G0446F-HYH9	1Gb	X4	1018	Inphi	LV-GS02	
Samsung	M393B5270BH1-CH9	4GB	7	C	Samsung	K4B2G0446B-HCH9	2Gb	x4	0934	IDT	B	
Samsung	M393B5270BH1-CH9	4GB	7	C	Samsung	K4B2G0446B-HCH9	2Gb	x4	0934	Inphi	GS04	
Samsung	M393B5270CH0-YH9	4GB	6	C	Samsung	K4B2G0446C-HYH9	2Gb	X4	1016	IDT	B	
Samsung	M393B5270CH0-YH9	4GB	6	C	Samsung	K4B2G0446C-HYH9	2Gb	X4	0934	Inphi	LV-GS02	
Samsung	M393B5170FH0-YH9	4GB	6	E	Samsung	K4B1G0446F-HYH9	1Gb	X4	1006	IDT	B	
Samsung	M393B5170FH0-YH9	4GB	6	E	Samsung	K4B1G0446F-HYH9	1Gb	X4	1005	Inphi	LV-GS02	
Samsung	M393B1K70BH1-CH9	8GB	7	E	Samsung	K4B2G0446B-HCH9	2Gb	x4	0934	IDT	B	
Samsung	M393B1K70BH1-CH9	8GB	7	E	Samsung	K4B2G0446B-HCH9	2Gb	x4	0934	Inphi	GS04	
Samsung	M393B1K70CH0-YH9	8GB	6	E	Samsung	K4B2G0446C-HYH9	2Gb	X4	0950	IDT	B	
Samsung	M393B1K70CH0-YH9	8GB	6	E	Samsung	K4B2G0446C-HYH9	2Gb	X4	1016	Inphi	LV-GS02	
Samsung	M393B5173EH1-CF8	4GB	7	H	Samsung	K4B1G0846E-HCF8	1Gb	x8	1008	IDT	B	
Samsung	M393B5173EH1-CF8	4GB	7	H	Samsung	K4B1G0846E-HCF8	1Gb	x8	1008	Inphi	GS04	
Samsung	M393B5173FH0-YF8	4GB	6	H	Samsung	K4B1G0846F-HYF8	1Gb	X8	1017	IDT	B	
Samsung	M393B5173FH0-YF8	4GB	6	H	Samsung	K4B1G0846F-HYF8	1Gb	X8	1017	Inphi	LV-GS02	
Samsung	M393B1K73BH1-CF8	8GB	7	H	Samsung	K4B2G0846B-HCF8	2Gb	x8	0934	IDT	B	
Samsung	M393B1K73BH1-CF8	8GB	7	H	Samsung	K4B2G0846B-HCF8	2Gb	x8	0934	Inphi	GS04	
Samsung	M393B1K73CH0-YF8	8GB	6	H	Samsung	K4B2G0846C-HYH9	2Gb	X8	1017	IDT	B	
Samsung	M393B1K73CH0-YF8	8GB	6	H	Samsung	K4B2G0846C-HYH9	2Gb	X8	1017	Inphi	LV-GS02	
Samsung	M393B1G70EM1-CF8	8GB	7	F	Samsung	K4B2G0446E-MCF8	1Gb	x4	1008	IDT	B	1
Samsung	M393B1G70EM1-CF8	8GB	7	F	Samsung	K4B2G0446E-MCF8	1Gb	x4	1008	Inphi	GS04	1
Samsung	M393B2K70BM1-CF8	16GB	7	F	Samsung	K4B4G0446B-MCF8	2Gb	x4	0934	Inphi	GS04	1

Intel Platform Memory Operations

RDIMM DDR3 800/978/1066 SR/DR/QR @ 2 DIMMs/Channel												
DIMM					DRAM					Register		
Supplier	Part Number	Size	CL	Raw Card	Supplier	Part Number	Density Die	Width	Date Code	Vendor	Revision	Note
Samsung	M393B2K70BM1-CF8	16GB	7	F	Samsung	K4B4G0446B-MCF8	2Gb	x4	0934	IDT	B	1
Samsung	M393B2K70CM0-YF8	16GB	6	F	Samsung	K4B4G0446C-MYF8	2Gb	X4	1018	IDT	B	1

1- DDP (Dual-Die Package)

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