

# Intel Platform Memory Operations

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## Intel Platform Memory Operations

### DDR3 1600 SoDIMM Validation Results

Listed below are the results from a small sample of DDR3 1600 SoDIMM modules tested on Intel reference mobile platforms based on Intel® 7 series chipset using 3<sup>rd</sup> Gen Intel® Core™ i7 processors (codename Ivy Bridge). DIMMs tested at 2DIMMs/channel, 2 channels loading configuration. We are providing this information as a guide to module performance with Intel® reference platforms. 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/L-1600 (11-11-11) SoDIMM, 2DIMM/ch, 2 channels, tested at 1.5V Vdd.**

DIMM Supplier	DIMM Part Number	DIMM Size	Native Voltage	Raw Card	DRAM Supplier	DRAM Part Number	DRAM Density	DRAM Width	DRAM Date Code	Tested Speed	Note
Hynix	HMT41GS6MFR8C-PB	8GB	DDR3	F	Hynix	H5TQ4G83MFR-PBC	4Gb	x8	1142	1600 CL11	
Hynix	HMT351S6CFR8C-PB	4GB	DDR3	F	Hynix	H5TQ2G83CFR-PBC	2Gb	x8	1133	1600 CL11	
Nanya	NT4GC64B8HG0NS-DI	4GB	DDR3	F	Nanya	NT5CB256M8GN-DI	2Gb	x8	1134	1600 CL11	
Nanya	NT2GC64B88G0NS-DI	2GB	DDR3	B	Nanya	NT5CB256M8GN-DI	2Gb	x8	1134	1600 CL11	
Samsung	M471B1G73BH0-CK0	8GB	DDR3	F	Samsung	K4B4G0846B-HCK0	4Gb	x8	1113	1600 CL11	
Samsung	M471B5273DH0-CK0	4GB	DDR3	F	Samsung	K4B2G0846D-HCK0	2Gb	x8	1140	1600 CL11	
Samsung	M471B5273EB0-CK0	4GB	DDR3	F	Samsung	K4B2G0846E-BCK0*	2Gb	x8	1140	1600 CL11	1

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DIMM Supplier	DIMM Part Number	DIMM Size	Native Voltage	Raw Card	DRAM Supplier	DRAM Part Number	DRAM Density	DRAM Width	DRAM Date Code	Tested Speed	Note
Samsung	M471B5773DH0-CK0	2GB	DDR3	B	Samsung	K4B2G0846D-HCK0	2Gb	x8	1140	1600 CL11	
Samsung	M471B5673GB0-CK0	2GB	DDR3	F	Samsung	K4B1G0846G-BCK0	1Gb	x8	1122	1600 CL11	
Samsung	M471B2873GB0-CK0	1GB	DDR3	B	Samsung	K4B1G0846G-BCK0	1Gb	x8	1052	1600 CL11	

1 - Test coverage based on limited SoDIMM samples. UDIMM and RDIMM test pending due to lack of samples

Created on December 20<sup>th</sup>, 2011

### Approved test labs

The following test labs have the capability of performing DDR3/L SoDIMM system-level testing. For further information, please contact:

### Advanced Validation Labs

Attn: Rhonda Duda, Program Manager  
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