

Intel Platform Memory Operations

Disclaimer

INTEL DISCLAIMS ALL LIABILITY FOR THESE DEVICES, INCLUDING LIABILITY FOR INFRINGEMENT OF ANY PROPRIETARY RIGHTS RELATING TO THESE DEVICES OR THE IMPLEMENTATION OF INFORMATION IN THIS DOCUMENT. INTEL DOES NOT WARRANT OR REPRESENT THAT SUCH DEVICES OR IMPLEMENTATION WILL NOT INFRINGE SUCH RIGHTS. INTEL IS NOT OBLIGATED TO PROVIDE ANY SUPPORT, INSTALLATION, OR OTHER ASSISTANCE WITH REGARD TO THESE DEVICES. THE INTEL PRODUCT REFERRED TO IN THIS DOCUMENT IS INTENDED FOR STANDARD COMMERCIAL USE ONLY. CUSTOMERS ARE SOLELY RESPONSIBLE FOR ASSESSING THE SUITABILITY OF THE PRODUCT AND/OR DEVICES FOR USE IN PARTICULAR

APPLICATIONS. THE REFERENCED INTEL PRODUCT IS NOT INTENDED FOR USE IN CRITICAL CONTROL OR SAFETY SYSTEMS OR IN NUCLEAR FACILITY APPLICATIONS. Information in this document is provided in connection with Intel products. No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by the sale of Intel products. Except as provided in Intel's Terms and Conditions of Sale for such products, Intel assumes no liability whatsoever, and Intel disclaims any express or implied warranty, relating to sale and/or use of Intel products including liability or warranties relating to fitness for a particular purpose, merchantability, or infringement of any patent, copyright or other intellectual property right. Intel products are not intended for use in medical, life saving, or life sustaining applications. Intel retains the right to make changes to its test specifications and memory list at any time, without notice. The hardware vendor remains solely responsible for the design, sale and functionality of its product, including any liability arising from product infringement or product warranty. Only approved software drivers and accessories that are recommended for the revision number of the boards and system being operated should be used with Intel products. Please note that, as a result of warranty repairs or replacements, alternate software and firmware versions may required for proper operation of the equipment.

Copyright © Intel Corporation 2012.

* Other brands and names are the property of their respective owners.

Intel Platform Memory Operations

DDR3/L - 1600 Non-ECC UDIMM Validation Results 1DIMM/ch, 1 Slot per ch, 4 channels

Listed below are the results from a small sample of DDR3 1600 Non-ECC UDIMM modules tested on Intel reference desktop platforms based on Intel® X79 series chipset using Intel® Core™ i7 processors Socket LGA-2011 (codename Sandy Bridge-E). DIMMs tested at 1DIMMs/channel, 4 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) UDIMM non-ECC, 1DIMM/ch, 1 slot per ch, 4 channels, at Vdd=1.5V

DIMM Supplier	DIMM Part Number	DIMM Size	Native Voltage	Raw Card	DRAM Supplier	DRAM Part Number	DRAM Density	DRAM Width	DRAM DateCode	Tested Speed
Crucial	CT51264BA160B.16FMD	4GB	DDR3	B	Micron	MT41K256M8DA-125:M	2Gb	x8	1129	1600 CL11
Elpida	EBJ20UF8BCF0-GN-F	2GB	DDR3	A	Elpida	EDJ2108BCSE-GN-F	2Gb	x8	1053	1600 CL11
Elpida	EBJ41UF8BCF0-GN-F	4GB	DDR3	B	Elpida	EDJ2108BCSE-GN-F	2Gb	x8	1053	1600 CL11
Elpida	EBJ41UF8BDW0-GN-F	4GB	DDR3	B	Elpida	EDJ2108BDBG-GN-F	2Gb	x8	1203	1600 CL11
Elpida	EBJ20UF8BDW0-GN-F	2GB	DDR3	A	Elpida	EDJ2108BDBG-GN-F	2Gb	x8	1203	1600 CL11
Elpida	EBJ40UG8BBW0-GN-F	4GB	DDR3	A	Elpida	EDJ4208BBBG-GN-F	4Gb	x8	1201	1600 CL11
Elpida	EBJ81UG8BBW0-GN-F	8GB	DDR3	B	Elpida	EDJ4208BBBG-GN-F	4Gb	x8	1201	1600 CL11

Intel Platform Memory Operations

Kingston	KVR1600D3N11/2G	2GB	DDR3	A	Elpida	EDJ2108BDBG-GN-F	2Gb	x8	1203	1600 CL11
Ramaxel	RMR5040ED58E9W	4GB	DDR3	B	Elpida	EDJ2108BDBG-GN-F	2Gb	x8	1203	1600 CL11
SK hynix	HMT325U6CFR8C-PB	2GB	DDR3	A	SK hynix	H5TQ2G83CFR-PBC	2Gb	x8	1133	1600 CL11
SK hynix	HMT351U6CFR8C-PB	4GB	DDR3	B	SK hynix	H5TQ2G83CFR-PBC	2Gb	x8	1133	1600 CL11
SK hynix	HMT41GU6MFR8C-PB	8GB	DDR3	B	SK hynix	H5TQ4G83MFR-PBC	4Gb	x8	1142	1600 CL11
Kingston	KVR1600D3N11/2G	2GB	DDR3	A	Elpida	EDJ2108BCSE-GN-F	2Gb	x8	1124	1600 CL11
Kingston	KVR1600D3N11/4G	4GB	DDR3	B	Elpida	EDJ2108BCSE-GN-F	2Gb	x8	1124	1600 CL11
Micron	MT16JTF51264AZ-1G6M1	4GB	DDR3	B	Micron	MT41K256M8DA-125:M	2Gb	x8	1129	1600 CL11
Micron	MT8JTF25664AZ-1G6M1	2GB	DDR3	A	Micron	MT41K256M8DA-125:M	2Gb	x8	1129	1600 CL11
Micron	MT4JTF25664AZ-1G6E1	2GB	DDR3	C	Micron	MT41K256M16HA-125:E	4Gb	x16	1220	1600 CL11
Micron	MT8JTF51264AZ-1G6E1	4GB	DDR3	A	Micron	MT41K512M8RH-125:E	4Gb	x8	1216	1600 CL11
Micron	MT16JTF1G64AZ-1G6E1	8GB	DDR3	B	Micron	MT41K512M8RH-125:E	4Gb	x8	1216	1600 CL11
Nanya	NT2GC64B88G0NF-DI	2GB	DDR3	A	Nanya	NT5CC256M8GN-DI	2Gb	x8	1150	1600 CL11
Nanya	NT4GC64B8HG0NF-DI	4GB	DDR3	B	Nanya	NT5CC256M8GN-DI	2Gb	x8	1150	1600 CL11
Samsung	M378B1G73BH0-CK0	8GB	DDR3	B	Samsung	K4B4G0846B-HCK0	4Gb	x8	1116	1600 CL11
Samsung	M378B5273CH0-CK0	4GB	DDR3	B	Samsung	K4B2G0846C-HCK0	2Gb	x8	1112	1600 CL11
Samsung	M378B5273DH0-CK0	4GB	DDR3	B	Samsung	K4B2G0846D-HCK0	2Gb	x8	1036	1600 CL11

Intel Platform Memory Operations

Samsung	M378B5673GB0-CK0	2GB	DDR3	B	Samsung	K4B1G0846G-BCK0	1Gb	x8	1122	1600 CL11
Samsung	M378B5773DH0-CK0	2GB	DDR3	A	Samsung	K4B2G0846D-HCK0	2Gb	x8	1036	1600 CL11
Samsung	M378B5773EB0-CK0	2GB	DDR3	A	Samsung	K4B2G0846E-BCK0	2Gb	x8	1146	1600 CL11
Samsung	M378B5273EB0-CK0	4GB	DDR3	B	Samsung	K4B2G0846E-BCK0	2Gb	x8	1146	1600 CL11
Samsung	M378B2873GB0-CK0	1GB	DDR3	A	Samsung	K4B1G0846G-BCK0	1Gb	x8	1146	1600 CL11
Samsung	M378B5173CB0-CK0	4GB	DDR3	A	Samsung	K4B4G0846C-BCK0	4Gb	x8	1210	1600 CL11

Updated on September 18, 2012

Approved test labs

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

Advanced Validation Labs

Attn: Rhonda Duda, Program Manager
 17665B Newhope Street
 Fountain Valley, CA 92708
 USA Phone: 714-438-2787
rduda@validationlabs.com

