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, lifesaving, 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 require for proper operation of the equipment.

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/C216 chipset using 3rd 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.

DDR3-1600 (11-11-11) SoDIMM, 2DIMM/ch, 2 channels

DIMM Supplier	DIMM Part Number	DIMM Size	Native Voltage	Raw Card	DRAM Supplier	DRAM Part Number	DRAM Density	DRAM Width	DRAM DateCode	Tested Speed
Elpida	EBJ81UG8BBU0-GN-F	8GB	DDR3	F	Elpida	EDJ4208BBBG-GN-F	4Gb	x8	1201	1600 CL11
Elpida	EBJ40UG8BBU0-GN-F	4GB	DDR3	B	Elpida	EDJ4208BBBG-GN-F	4Gb	x8	1201	1600 CL11
Elpida	EBJ41UF8BDU0-GN-F	4GB	DDR3	F	Elpida	EDJ2108BDBG-GN-F	2Gb	x8	1203	1600 CL11
Elpida	EBJ20UF8BDU0-GN-F	2GB	DDR3	B	Elpida	EDJ2108BDBG-GN-F	2Gb	x8	1207	1600 CL11
Kingston	KVR1600D3S11/8G	8GB	DDR3	F	Elpida	EDJ4208BBBG-GN-F	4Gb	x8	1203	1600 CL11
Kingston	KVR1600D3S11/4G	4GB	DDR3	F	Elpida	EDJ2108BDBG-GN-F	2Gb	x8	1208	1600 CL11
Kingston	KVR1600D3S11/2G	2GB	DDR3	B	Elpida	EDJ2108BDBG-GN-F	2Gb	x8	1208	1600 CL11

Intel Platform Memory Operations

DIMM Supplier	DIMM Part Number	DIMM Size	Native Voltage	Raw Card	DRAM Supplier	DRAM Part Number	DRAM Density	DRAM Width	DRAM DateCode	Tested Speed
Micron	MT16KTF1G64HZ-1G6N1	8GB	DDR3	F	Micron	MT41K512M8RG-107:N	4Gb	x8	1410	1600 CL11
Micron	MT16JTF1G64HZ-1G6E1	8GB	DDR3	F	Micron	MT41K512M8RH-125:E	4Gb	x8	1226	1600 CL11
Micron	MT8KTF51264HZ-1G6N1	4GB	DDR3	B	Micron	MT41K512M8RG-107:N	4Gb	x8	1410	1600 CL11
Micron	MT8JTF51264HZ-1G6E1	4GB	DDR3	B	Micron	MT41K512M8RH-125:E	4Gb	x8	1248	1600 CL11
Micron	MT4JTF25664HZ-1G6E1	2GB	DDR3	C	Micron	MT41K256M16HA-125:E	4Gb	x8	1226	1600 CL11
Micron	MT16JTF51264HZ-1G6M1	4GB	DDR3	F	Micron	MT41K256M8DA-125:M	2Gb	x8	1151	1600 CL11
Micron	MT8JTF25664HZ-1G6M1	2GB	DDR3	B	Micron	MT41K256M8DA-125:M	2Gb	x8	1151	1600 CL11
Nanya	NT8GC64B8HB0NS-DI	8GB	DDR3	F	Nanya	NT5CB512M8BN-DI	4Gb	x8	1213	1600 CL11
Nanya	NT4GC64B88B0NS-DI	4GB	DDR3	B	Nanya	NT5CB512M8BN-DI	4Gb	x8	1213	1600 CL11
Nanya	NT2GC64BH4B0PS-DI	2GB	DDR3	C	Nanya	NT5CB256M16BP-DI	4Gb	x16	1212	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	M471B5173DB0-CK0	4GB	DDR3	B	Samsung	K4B4G0846D-BCK0	4Gb	x8	1237	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

Intel Platform Memory Operations

DIMM Supplier	DIMM Part Number	DIMM Size	Native Voltage	Raw Card	DRAM Supplier	DRAM Part Number	DRAM Density	DRAM Width	DRAM DateCode	Tested Speed
Samsung	M471B5273EB0-CK0	4GB	DDR3	F	Samsung	K4B2G0846E-BCK0	2Gb	x8	1140	1600 CL11
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
SK hynix	HMT41GS6AFR8C-PB	8GB	DDR3	F	SK Hynix	H5TQ4G83AFR-PBC	4Gb	x8	1244	1600 CL11
SK hynix	HMT41GS6MFR8C-PB	8GB	DDR3	F	SK Hynix	H5TQ4G83MFR-PBC	4Gb	x8	1142	1600 CL11
SK hynix	HMT351S6EFR8C-PB	4GB	DDR3	F	SK Hynix	H5TQ2G83EFR-PBC	2Gb	x8	1218	1600 CL11
SK hynix	HMT351S6CFR8C-PB	4GB	DDR3	F	SK Hynix	H5TQ2G83CFR-PBC	2Gb	x8	1133	1600 CL11
SK hynix	HMT325S6EFR8C-PB	2GB	DDR3	B	SK Hynix	H5TQ2G83EFR-PBC	2Gb	x8	1218	1600 CL11
SK hynix	HMT325S6CFR8C-PB	2GB	DDR3	B	SK hynix	H5TQ2G83CFR-PBC	2Gb	x8	1220	1600 CL11

Created on August 14th, 2014

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

Intel Platform Memory Operations

Attn: Rhonda Duda, Program Manager

17665B Newhope Street

Fountain Valley, CA 92708

USA   Phone: 714-438-2787

rduda@validationlabs.com