

DDR3 DRAM Modules Evaluated with the AMD Second Generation A-Series (“Richland”) Desktop APU

Introduction

This list contains DDR3 UDIMMs that have been evaluated by AMD and have shown reliable operation on the AMD internal reference platform. Testing included functional testing over voltage and temperature, as well as V_{REF} margining.

Purpose

As each mobile platform is different in design and characteristics, AMD cannot guarantee that a UDIMM contained in this list will work reliably in a specific mobile platform. The sole purpose of this list is to provide guidance with respect to creating the UDIMM test matrix a platform designer needs to validate the operation of a platform design. **It is the platform designer’s responsibility to completely test and verify operation of UDIMMs based on their own test process.**

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2133@1.5V

	DIMM Module				DRAM Component				Testing Data			
	Mfg	PN	Capacity	Rank/Width	Mfg	PN	Rev	IC Capacity	IC Date Code	Speed/Config	Date tested	
Richland FM2	Elpida	EBJ20UF8BSW0-MS-F	2GB	1Rx8	Elpida	J2108BSBG-GN-F	S	2Gb	1117	2133/1DPC	1/31/2013	
	Micron	MT9JSF25672AZ-2G1K1	2GB	1Rx8	Micron	MT41J256M8DA-093	K	2Gb	1246	2133/1DPC	1/31/2013	
	Samsung	M378B5773DH0-CNB	2GB	1Rx8	Samsung	K4B2G0846D-HCNB	D	2Gb	1128	2133/1DPC	1/31/2013	
		M378B5273DH0-CNB	4GB	2Rx8		K4B2G0846D-HCNB	D	2Gb	1128	2133/1DPC	2/4/2013	
	BOLD = New Addition, * = Data Unavailable											

1866@1.5V

	DIMM Module				DRAM Component				Testing Data		
	Mfg	PN	Capacity	Rank/Width	Mfg	PN	Rev	IC Capacity	IC Date Code	Speed/Config	Date tested
Richland FM2	Elpida	EBJ40EG8BFWA-JS-F	4GB	1Rx8	Elpida	EDJ4208BFBG-JS-F	F	4Gb	1238	1866/2DPC	1/1/2013
		EBJ81EG8BFWA-JS-F	8GB	2Rx8		EDJ4208BFBG-JS-F	F	4Gb	1238	1866/1DPC	1/3/2013
	SK Hynix	HMT325U6CFR8C-RD	2GB	1Rx8	SK Hynix	H5TQ2G83CFR-RDC	C	2Gb	1146	1866/2DPC	1/31/2013
		HMT351U6CFR8C-RD	4GB	2Rx8		H5TQ2G83CFR-RDC	C	2Gb	1142	1866/2DPC	1/31/2013
	Micron	MT8JTF25664AZ-1G9M1	2GB	1Rx8	Micron	MT41J256M8DA-107	M	2Gb	1142	1866/2DPC	1/31/2013
		MT16JTF51264AZ-1G9M1	4GB	2Rx8		MT41J256M8DA-107	M	2Gb	1142	1866/2DPC	1/31/2013
Samsung	M378B1G73BH0-CMA	8GB	2Rx8	Samsung	K4B4G0846B	B	4Gb	1231	1866/2DPC	5/31/2013	
BOLD = New Addition, * = Data Unavailable											

1600@1.5V

DIMM Module				DRAM Component					Testing Data	
Mfg	PN	Capacity	Rank/Width	Mfg	PN	Rev	IC Capacity	IC Date Code	Speed/Config	Date tested
AMD	AE32G1609U1	2GB	1Rx8	NA	NA	NA	2Gb	NA	1600/2DPC	*
	AE34G1609U2	4GB	2Rx8		NA	NA	2Gb	NA	1600/2DPC	*
Elpida	EBJ20UF8BDW0-GN-F	2GB	1Rx8	Elpida	J2108BDBG-GN-F	D	2Gb	1218	1600/2DPC	*
	EBJ40UG8BBW0-GN-F	4GB	1Rx8		J4208BBBG-GN-F	B	4Gb	1208	1600/2DPC	*
	EBJ41UF8BDW0-GN-F	4GB	2Rx8		J2108BDBG-GN-F	D	2Gb	1218	1600/2DPC	*
	EBJ81UG8BBW0-GN-F	8GB	2Rx8		J4208BBBG-GN-F	B	4Gb	1207	1600/2DPC	*
Micron	MT8JTF25664AZ-1G6M1	2GB	1Rx8	Micron	MT41K256M8DA-125	M	2Gb	1115	1600/2DPC	*
	MT8JTF25664AZ-1G6K1	2GB	1Rx8		MT41K256M8DA-125	K	2Gb	1208	1600/2DPC	*
	MT16JTF51264AZ-1G6K1	4GB	2Rx8		MT41K256M8DA-125	K	2Gb	1207	1600/2DPC	*
	MT16JTF51264AZ-1G6M1	4GB	2Rx8		MT41K256M8DA-125	M	2Gb	1115	1600/2DPC	*
	MT8JTF51264AZ-1G6E1	4GB	1Rx8		MT41K512M8RH-125	E	4Gb	1206	1600/2DPC	*
	MT16JTF1G64AZ-1G6E1	8GB	2Rx8		MT41K512M8RH-125	E	4Gb	1212	1600/2DPC	*
	MT16JTF1G64AZ-1G6D1	8GB	2Rx8		MT41K512M8RA-125	D	4Gb	1132	1600/2DPC	*
Nanya	NT2GC64B88G0NF-DI	2GB	1Rx8	Nanya	NT5CB256M8GN-DI	G	2Gb	1140	1600/2DPC	*
	NT2GC64B4C0PF-DI	2GB	1R16		NT5CB256M16CP-DI	C	4Gb	1218	1600/2DPC	*
	NT4GC64B88HG0NF-DI	4GB	2Rx8		NT5CB256M8GN-DI	G	2Gb	1144	1600/2DPC	*
	NT4GC64B88B0NF-DI	4GB	1Rx8		NT5CB512M8BN-DI	B	4Gb	1207	1600/2DPC	*
	NT4GC64B88C0NF-DI	4GB	1Rx8		NT5CB512M8CN-DI	C	4Gb	1218	1600/2DPC	*
	NT8GC64B88B0NF-DI	8GB	2Rx8		NT5CB512M8BN-DI	B	4Gb	1211	1600/2DPC	*
	NT8GC64B88C0NF-DI	8GB	2Rx8		NT5CB512M8CN-DI	C	4Gb	1209	1600/2DPC	*
PSC	AL8F8K83C-GN2E	2GB	1Rx8	PSC	A3P2GF3CKF-GGNAQ	C	2Gb	1217	1600/2DPC	10/15/2012
	AL9F8K83C-GN2E	4GB	2Rx8		A3P4GF3BLF-GGNAF	B	2Gb	1217	1600/2DPC	10/15/2012
	ALAF8L93B-GN2E	8GB	2Rx8		A3P4GF3BLF-GGNAF	B	4Gb	1216	1600/2DPC	10/15/2012
Ramaxel	RMR5030ED58E8W-1600	2GB	1Rx8	Elpida	EDJ2108BDBG-GN-F	D	2Gb	1149	1600/2DPC	*
	RMR5040ED58E9W-1600	4GB	2Rx8		EDJ2108BDBG-GN-F	D	2Gb	1149	1600/2DPC	*
	RMR5030MM58E8F-1600	2GB	1Rx8	Micron	MT41K256M8DA-125	M	2Gb	1220	1600/2DPC	*
	RMT3150MM58E8F-1600	4GB	2Rx8		MT41K256M8DA-125	M	2Gb	1220	1600/2DPC	*
Samsung	M378B5773DH0-CK0	2GB	1Rx8	Samsung	K4B2G0846D-HCK0	D	2Gb	140	1600/2DPC	*
	M378B5773QB0-CK0	2GB	1Rx8		K4B2G0846Q-BCK0	Q	2Gb	1328	1600/2DPC	9/30/2013
	M378B5273DH0-CK0	4GB	2Rx8		K4B2G0846D-HCK0	D	2Gb	140	1600/2DPC	*
	M378B5173BH0-CK0	4GB	1Rx8		K4B460846B-HCK0	B	4Gb	1319	1600/2DPC	6/20/2013
	M378B5173QH0-CK0	4GB	1Rx8		K4B4G0846Q-HCK0	Q	4Gb	1322	1600/2DPC	7/22/2013
	M378B5173DB0-CK0	4GB	1Rx8		K4B4G0846D-BCK0	D	4Gb	1328	1600/2DPC	8/2/2013
	M378B1G73BH0-CK0	8GB	2Rx8		K4B4G0846B-HCK0	B	4Gb	1149	1600/2DPC	6/21/2013
	M378B1G73QH0-CK0	8GB	2Rx8		K4B4G0846Q-HCK0	Q	4Gb	1322	1600/2DPC	7/18/2013
	M378B1G73DB0-CK0	8GB	2Rx8		K4B4G0846D-BCK0	D	4Gb	1328	1600/2DPC	8/1/2013
	M378B1G73BH0-CK0	8GB	2Rx8		K4B4G0846B-HCK0	B	4Gb	149	1600/2DPC	*
SK Hynix	HMT325U6CFR8C-PB	2GB	1Rx8	SK Hynix	H5TQ2G83CFR-PBC	C	2Gb	1120	1600/2DPC	*
	HMT351U6CFR8C-RD	4GB	2Rx8		H5TQ2G83CFR-RDC	C	2Gb	1143	1600/2DPC	*
	HMT351U6CFR8C-PB	4GB	2Rx8		H5TQ2G83CFR-PBC	C	2Gb	1120	1600/2DPC	*
Sharetronic	SM311NH08IBF	2GB	1Rx8	Micron	MT41K256M8DA-125:K	K	2Gb	*	1600/2DPC	7/12/2013

BOLD = New Addition, * = Data Unavailable

1600@1.35V

DIMM Module				DRAM Component					Testing Data		
Mfg	PN	Capacity	Rank/Width	Mfg	PN	Rev	IC Capacity	IC Date Code	Speed/Config	Date tested	
Richland FM2	Elpida	EBJ40UG8EFW0-GN-F	4GB	1Rx8	Elpida	EDJ4208EFBG-GN-F	F	4Gb	1229	1600/2DPC	12/28/2012
		EBJ81UG8EFW0-GN-F	8GB	2Rx8		EDJ4208EFBG-GN-F	F	4Gb	1228	1600/2DPC	12/29/2012
	Micron	MT8KTF25664AZ-1G6K1	2GB	1Rx8	Micron	MT41K256M8DA-125	K	2Gb	1208	1600/2DPC	*
		MT8KTF51264AZ-1G6E1	4GB	1Rx8		MT41K512M8RH-125	E	4Gb	1208	1600/2DPC	*
		MT16KTF51264AZ-1G6K1	4GB	2Rx8		MT41K256M8DA-125	K	2Gb	1128	1600/2DPC	*
		MT8KTF51264AZ-1G9E1	4GB	1Rx8		MT41K512M8RH-125	E	4Gb	*	1600/2DPC	11/30/2012
		MT16KTF1G64AZ-1G9E1	8GB	2Rx8		MT41K512M8RH-125	E	4Gb	*	1600/2DPC	11/30/2012
		MT16KTF1G64AZ-1G6E1	8GB	2Rx8		MT41K512M8RH-125	E	4Gb	1208	1600/2DPC	*
	Nanya	NT4GC64C88CONF-DI	4GB	1Rx8	Nanya	NT5CC512M8CN-DI	C	4Gb	1212	1600/2DPC	*
	Ramaxel	RMR5070EB76F8W-1600	2GB	1Rx16	Elpida	EDJ4216EBBG-GN-F	B	4Gb	1223	1600/2DPC	12/19/2012
		RMR5030EF68F9W-1600	4GB	1Rx8		EDJ4204EFBG-GN-F	F	4Gb	1323	1600/2DPC	8/20/2013
		RMR5030EB68F9W-1600	4GB	1Rx8		EDJ4208EBBG-GN-F	B	4Gb	1223	1600/2DPC	12/19/2012
		RMR5040EB68FAW-1600	8GB	2Rx8	EDJ4216EBBG-GN-F	B	4Gb	1242	1600/1DPC	1/28/2013	
		RMR5030MK58F8F-1600	2GB	1Rx8	MT41K256M8DA-125:K	K	2Gb	1322	1600/2DPC	8/8/2013	
		RMR5030ME68F9F-1600	4GB	1Rx8	Micron	MT41K512M8RH-125	E	4Gb	1222	1600/1DPC	1/28/2013
		RMR5040ME68FAF-1600	8GB	2Rx8	MT41K512M8RH-125:E	E	4Gb	1252	1600/2DPC	8/8/2013	
	Smart	SG5641G8FJ8N6RN1	8GB	2Rx8	Micron	MT41K512M8RH-125:E	E	4Gb	1250	1600/2DPC	10/7/2013

BOLD = New Addition, * = Data Unavailable

1333@1.5V

DIMM Module				DRAM Component					Testing Data		
Mfg	PN	Capacity	Rank/Width	Mfg	PN	Rev	IC Capacity	IC Date Code	Speed/Config	Date tested	
Richland FM2	AMD	AE32G1339U1	2GB	1Rx8	NA	NA	NA	2Gb	NA	1333/2DPC	*
		AE34G1339U2	4GB	2Rx8		NA	NA	2Gb	NA	1333/2DPC	*
	Elpida	EBJ20UF8BDW0-DJ-F	2GB	1Rx8	Elpida	EDJ2108BDBG-DJ-F	D	2Gb	NA	1333/2DPC	*
		EBJ40UG8BBW0-DJ-F	4GB	1Rx8		J4208BBBG-GN-F	B	4Gb	1208	1333/2DPC	*
		EBJ41UF8BDW0-DJ-F	4GB	2Rx8		EDJ2108BDBG-DJ-F	D	2Gb	NA	1333/2DPC	*
		EBJ81UG8BBW0-DJ-F	8GB	2Rx8		J4208BBBG-GN-F	B	4Gb	1207	1333/2DPC	*
	Ramaxel	RMR1810EC58E8F-1333	2GB	1Rx8	Elpida	EDJ2108BCSE-DJ-F	C	2Gb	1120	1333/2DPC	*

BOLD = New Addition, * = Data Unavailable

1333@1.35V

DIMM Module				DRAM Component					Testing Data		
Mfg	PN	Capacity	Rank/Width	Mfg	PN	Rev	IC Capacity	IC Date Code	Speed/Config	Date tested	
Richland FM2	Micron	MT8KTF25664AZ-1G4M1	2GB	1Rx8	Micron	MT41K256M8DA-125	M	2Gb	1116	1333/2DPC	*
		MT16KTF51264AZ-1G4M1	4GB	2Rx8		MT41K256M8DA-125	M	2Gb	1115	1333/2DPC	*
	Nanya	NT2GC64C88G0NF-CG	2GB	1Rx8	Nanya	NT5CC256M8GN-CG	G	2Gb	*	1333/2DPC	*
		NT4GC64C88G0NF-CG	4GB	1Rx8		NT5CC256M8GN-CG	G	4Gb	*	1333/2DPC	*

BOLD = New Addition, * = Data Unavailable

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