

DDR3 DRAM Modules Evaluated with the AMD Second Generation A-Series “Trinity” Mobile APU

Introduction

This list contains DDR3 SO-DIMMs 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 SO-DIMM 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 SO-DIMM 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 SO-DIMMs based on their own test process.**

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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
A-Data	AM1U16BC2P1	2GB	1Rx8	Elpida	3CCD-1211A	D	2Gb	U150	1600/1DPC	*
	AM1U16BC4P2	4GB	2Rx8		3CCD-1211A	D	2Gb	U1213	1600/1DPC	*
	MI74C1B0873Z2	2GB	1Rx8	Micron	MT41K256M8DA-125	M	2Gb	1150	1600/1DPC	*
	MI74C1C167HZ2	4GB	2Rx8		MT41K256M8DA-125	M	2Gb	1150	1600/1DPC	*
Asint	SSZ302G08-GGNED	2GB	1Rx8	Elpida	EDJ2108BDBG-GN-F	D	2Gb	1207	1600/1DPC	*
	SSA302G08-GGNED	4GB	2Rx8		EDJ2108BDBG-GN-F	D	2Gb	1205	1600/1DPC	*
Elpida	EBJ20UF8BDU0-GN-F	2GB	1Rx8	Elpida	J2108BDBG-GN-F	D	2Gb	1151	1600/1DPC	*
	EBJ20UF8BCS0-GN-F	2GB	1Rx8		J2108BCSE-GN-F	C	2Gb	1047	1600/1DPC	*
	EBJ41UF8BCS0-GN-F	4GB	2Rx8		J2108BCSE-GN-F	C	2Gb	1047	1600/1DPC	*
	EBJ40UG8BBU0-GN-F	4GB	1Rx8		J4208BBBG-GN-F	B	4Gb	1153	1600/1DPC	*
	EBJ41UF8BDU0-GN-F	4GB	2Rx8		J2108BDBG-GN-F	D	2Gb	1151	1600/1DPC	*
	EBJ81UG8BBU0-GN-F	8GB	2Rx8		J4208BBBG-GN-F	B	4Gb	1153	1600/1DPC	*
Micron	MT8JTF25664HZ-1G6M1	2GB	1Rx8	Micron	MT41K256M8DA-125	M	2Gb	1112	1600/1DPC	*
	MT16JTF51264HZ-1G6M1	4GB	2Rx8		MT41K256M8DA-125	M	2Gb	1126	1600/1DPC	*
	MT8JTF51264HZ-1G6D1	4GB	1Rx8		MT41K512M8RA-125	D	4Gb	1136	1600/1DPC	*
	MT16JTF1G64HZ-1G6E1	8GB	2Rx8		MT41K512M8RH-125:E	E	4Gb	1308	1600/1DPC	4/15/2013
	MT16JTF1G64HZ-1G6D1	8GB	2Rx8		MT41K512M8RA-125	D	4Gb	1132	1600/1DPC	*
Nanya	NT2GC64B88G0NS-DI	2GB	1Rx8	Nanya	NT5CB256M8GN-DI	G	2Gb	1124	1600/1DPC	*
	NT2GC64B4B0PS-DI	2GB	1Rx8		NT5CB256M16BP-DI	B	2Gb	1228	1600/1DPC	8/23/2012
	NT4GC64B8HG0NS-DI	4GB	2Rx8		NT5CB256M8GN-DI	G	2Gb	1124	1600/1DPC	*
PSC	AS8F8K83C-GN2E	2GB	1Rx8	PSC	A3P2GF3CKF-GGNAQ	C	2Gb	217M9E0G	1600/1DPC	12/15/2012
	AS9F8L93B-GN2E	4GB	1Rx8		A3P4GF3BLF-GGNAF	B	4Gb	216M6B01	1600/1DPC	12/15/2012
	ASAF8L93B-GN2E	8GB	2Rx8		A3P4GF3BLF-GGNAF	B	4Gb	216M6B02	1600/1DPC	12/15/2012
Ramaxel	RMT3150ED58E8W-1600	2GB	1Rx8	Elpida	EDJ2108BDBG-GN-F	D	2Gb	1149	1600/1DPC	*
	RMT3160ED58E9W-1600	4GB	2Rx8		EDJ2108BDBG-GN-F	D	2Gb	1206	1600/1DPC	*
	RMT3160EB68FAW-1600	8GB	2Rx8		EDJ4208EBBG-GN-F	B	4Gb	1223	1600/1DPC	5/7/2013
	RMT3160MM58E9F-1600	4GB	2Rx8		MT41K256M8DA-125	M	2Gb	1220	1600/1DPC	*
	RMT3150MM58E8F-1600	4GB	1Rx8		MT41K256M8DA-125	M	2Gb	1220	1600/1DPC	*
Samsung	M471B5773DH0-CK0	2GB	1Rx8	Samsung	K4B2G0846D-HCK0	D	2Gb	146	1600/1DPC	*
	M471B5773CHS-CK0	2GB	1Rx8		K4B2G0846C-HCK0	C	2Gb	149	1600/1DPC	*
	M471B5273CH0-CK0	4GB	2Rx8		K4B2G0846C-HCK0	C	2Gb	146	1600/1DPC	*
	M471B5273DH0-CK0	4GB	2Rx8		K4B2G0846D-HCK0	D	2Gb	134	1600/1DPC	*
	M471B1G73BH0-CK0	8GB	2Rx8		K4B4G0846B-HCK0	B	4Gb	146	1600/1DPC	*
Sharetronic	SM321NQ08ICF	4GB	1Rx8	Micron	MT41K512M8RH-125:E	M	4Gb	1232	1600/1DPC	12/19/2012
	SM322NW08IAF	8GB	2Rx8		MT41K512M8RH-125:E	M	4Gb	1232	1600/1DPC	12/19/2012
SK Hynix	HMT325S6CFR8C-PB	2GB	1Rx8	SK Hynix	H5TQ2G83CFR-PBC	C	2Gb	126	1600/1DPC	*
	HMT425S6AFR6C-PB	2GB	1Rx16		H5TC4G83AFR-PBA	A	4Gb	*	1600/1DPC	1/25/2013
	HMT325S6EFR8C-PB	2GB	1Rx8		H5TQ2G83EFR-PBC	E	2Gb	1301	1600/1DPC	10/7/2013
	HMT351S6EFR8C-PB	4GB	2Rx8		H5TQ2G83EFR-PBC	E	2Gb	1301	1600/1DPC	10/7/2013
	HMT351S6CFR8C-PB	4GB	2Rx8		H5TQ2G83CFR-PBC	C	2Gb	129	1600/1DPC	*
	HMT351S6CFR8C-PB	4GB	2Rx8		H5TQ2G83CFR-PBC	C	2Gb	129	1600/1DPC	*
	HMT451S6AFR8C-PB	4GB	1Rx8		H5TC4G83AFR-PBA	A	4Gb	*	1600/1DPC	1/25/2013
	HMT41GS6MFR8C-PB	8GB	2Rx8		H5TQ4G83MFR-PBC	M	4Gb	1131	1600/1DPC	*
	HMT41GS6AFR8C-PB	8GB	2Rx8		H5TC4G83AFR-PBA	A	4Gb	*	1600/1DPC	1/25/2013

BOLD = New Entry, * = 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
Elpida	EBJ20UF8EDU0-GN-F	2GB	1Rx8	Elpida	J2108EDBG-GN-F	D	2Gb	*	1600/1DPC	*
	EBJ41UF8EDU0-GN-F	4GB	2Rx8		J2108EDBG-GN-F	D	2Gb	*	1600/1DPC	*
	EBJ40UG8EUBU0-GN-F	4GB	1Rx8		J4208EBBG-GN-F	B	4Gb	*	1600/1DPC	*
	EBJ40UG8EFU0-GN-F	4GB	1Rx8		EDJ4208EFBG-GN-F	F	4Gb	1229	1600/1DPC	12/19/2012
	EBJ81UG8EFU0-GN-F	8GB	2Rx8		EDJ4208EFBG-GN-F	F	4Gb	1229	1600/1DPC	12/28/2012
	EBJ81UG8EUBU0-GN-F	8GB	2Rx8		J4208EBBG-GN-F	B	4Gb	*	1600/1DPC	*
Kingston	HP16D3LS1KDG/2G	2GB	1Rx8	Elpida	D2568EERDPGGBU	D	2Gb	1245	1600/1DPC	1/28/2013
	HP16D3LS1KBG/4G	4GB	1Rx8		D5128EETBPGGBU	B	4Gb	1248	1600/1DPC	1/28/2013
	HP16D3LS1KFG/4G	4GB	1Rx8		D5128ED1FPGGBU	F	4Gb	1317	1600/1DPC	10/31/2013
	HP16D3LS1KFG/8G	8GB	2Rx8		D5128ED1FPGGBU	F	4Gb	1316	1600/1DPC	10/31/2013
	HP16D3LS1KBG/8G	8GB	2Rx8		D5128EETBPGGBU	B	4Gb	1242	1600/1DPC	1/28/2013
Micron	MT8KTF25664HZ-1G6M1	2GB	1Rx8	Micron	MT41K256M8DA-125	M	2Gb	1128	1600/1DPC	*
	MT16KTF51264HZ-1G6M1	4GB	2Rx8		MT41K256M8DA-125	M	2Gb	1112	1600/1DPC	*
	MT8KTF51264HZ-1G6E1	4GB	1Rx8		MT41K512M8RH-125	E	4Gb	*	1600/1DPC	*
	MT8KTF51264HZ-1G6D1	4GB	1Rx8		MT41K512M8RA-125	D	4Gb	1136	1600/1DPC	*
	MT4MTF25664HZ-1G6E1	4GB	1Rx8		MT41K256M16HA-125	E	4Gb	1242	1600/1DPC	12/7/2012
	MT8KTF51264HZ-1G9E1	4GB	1Rx8		MT41K512M8RH-107	E	4Gb	1228	1866/1DPC	1/22/2013
	MT16KTF1G64HZ-1G9E1	8GB	2Rx8		MT41K512M8RH-107	E	4Gb	1228	1866/1DPC	1/22/2013
	MT16KTF1G64HZ-1G6E1	8GB	2Rx8		MT41K512M8RH-125	E	4Gb	*	1600/1DPC	*
	MT16MTF1G64HZ-1G6E1	8GB	2Rx8		MT41K512M8RH-125	E	4Gb	1244	1600/1DPC	12/7/2012
	MT16KTF1G64HZ-1G6D1	8GB	2Rx8		MT41K512M8RA-125	D	4Gb	1132	1600/1DPC	*
Nanya	NT2GC64C88G0NS-DI	2GB	1Rx8	Nanya	NT5CC256M8GN-DI	G	2Gb	1140	1600/1DPC	*
	NT2GC64C4C0PS-DI	2GB	1Rx16		NT5CC256M16CP-DI	C	4Gb	1218	1600/1DPC	*
	NT4GC64C8HG0NS-DI	4GB	2Rx8		NT5CC256M8GN-DI	G	2Gb	1124	1600/1DPC	*
	NT4GC64C88B0NS-DI	4GB	1Rx8		NT5CC512M8BN-DI	B	4Gb	1213	1600/1DPC	*
	NT4GC64C88C0NS-DI	4GB	1Rx8		NT5CC512M8CN-DI	C	4Gb	1209	1600/1DPC	*
	NT8GC64C8HB0NS-DI	8GB	2Rx8		NT5CC512M8BN-DI	B	4Gb	1211	1600/1DPC	*
	NT8GC64C8HC0NS-DI	8GB	2Rx8		NT5CC512M8CN-DI	C	4Gb	1218	1600/1DPC	*
	M471B5773CHS-YK0	2GB	1Rx8		K4B2G0846C-HYK0	C	2Gb	222	1600/1DPC	*
M471B5674QH0-YK0	2GB	1Rx16	K4B4G1646Q-HYK0	Q	4Gb	1328	1600/1DPC	8/31/2013		
M471B5273DHO-YK0	4GB	2Rx8	K4B2G0846D-HYK0	D	2Gb	222	1600/1DPC	*		
M471B5273CHO-YK0	4GB	2Rx8	K4B2G0846C-HYK0	C	2Gb	216	1600/1DPC	*		
M471B5173BH0-YK0	4GB	1Rx8	K4B4G0846B-HYK0	B	4Gb	1310	1600/1DPC	5/28/2013		
M471B5173CB0-YK0	4GB	1Rx8	K4B4G0846C-BYK0	C	4Gb	1308	1600/1DPC	4/15/2013		
M471B5173QH0-YK0	4GB	1Rx8	K4B4G0846Q-HYK0	Q	4Gb	1325	1600/1DPC	8/31/2013		
M471B5173DB0-YK0	4GB	1Rx8	K4B4G0846D-BYK0	D	4Gb	1304	1600/1DPC	8/31/2013		
M471B1G73QH0-YK0	8GB	2Rx8	K4B4G0846Q-HYK0	Q	4Gb	1325	1600/1DPC	8/31/2013		
M471B1G73DB0-YK0	8GB	2Rx8	K4B4G0846D-BYK0	D	4Gb	1310	1600/1DPC	8/31/2013		
M471B1G73BH0-YK0	8GB	2Rx8	K4B4G0846B-HYK0	B	4Gb	1319	1600/1DPC	6/19/2013		
Sharetronic	SM321NH08IAF	2GB	1Rx8	Micron	MT41K256M8DA-125:M	M	2Gb	1150	1600/1DPC	*
	SM321NH161BF	2GB	1Rx16		MT41K256M16HA-125:E	E	4Gb	*	1600/1DPC	6/24/2013
	SM322NQ08IAF	4GB	2Rx8		MT41K256M8DA-125:M	M	2Gb	1150	1600/1DPC	*
SK Hynix	HMT325S6CFR8A-PB	2GB	1Rx8	SK Hynix	H5TC2G83CFR-PBA	C	2Gb	137	1600/1DPC	*
	HMT325S6EFR8A-PB	2GB	1Rx8		H5TC2G83EFR-PBA	E	2Gb	na	1600/1DPC	*
	HMT325S6CFR8A-PB	2GB	1Rx8		H5TC2G83CFR-PBA	C	2Gb	137	1600/1DPC	*
	HMT425S6AFR6A-PB	2GB	1Rx16		H5TC4G63AFR-PBA	A	4Gb	*	1600/1DPC	1/25/2013
	HMT351S6CFR8A-PB	4GB	2Rx8		H5TC2G83CFR-PBA	C	2Gb	130	1600/1DPC	*
	HMT351S6EFR8A-PB	4GB	2Rx8		H5TC2G83EFR-PBA	E	2Gb	na	1600/1DPC	*
	HMT351S6CFR8A-PB	4GB	2Rx8		H5TC2G83CFR-PBA	C	2Gb	137	1600/1DPC	*
	HMT451S6AFR8A-PB	4GB	1Rx8		H5TC4G83AFR-PBA	A	4Gb	*	1600/1DPC	1/25/2013
	HMT41GS6AFR8A-PB	8GB	2Rx8		H5TC4G83AFR-PBA	A	4Gb	*	1600/1DPC	1/25/2013
	HMT41GS6MFR8A-PB	8GB	2Rx8		H5TC4G83MFR-PBA	M	4Gb	143	1600/1DPC	*
HMT41GS6MFR8A-PB	8GB	2Rx8	H5TC4G83MFR-PBA	M	4Gb	143	1600/1DPC	*		
Ramaxel	RMT3190EB76F8W-1600	2GB	1Rx16	Elpida	EDJ4216EBBG-GN-F	B	4Gb	1223	1600/1DPC	12/19/2012
	RMT3170ED58F8W-1600	2GB	1Rx8		EDJ2108BDBG-GN-F	D	2Gb	1243	1600/1DPC	1/28/2013
	RMT3170EB68F9W-1600	4GB	1Rx8		EDJ4208EBBG-GN-F	B	4Gb	1223	1600/1DPC	12/19/2012
	RMT3170EF68F9W-1600	4GB	1Rx8		EDJ4204EFBG-GN-F	F	4Gb	1323	1600/1DPC	8/20/2013
	RMT3160EB68FAW-1600	8GB	2Rx8		EDJ4208EBBG-GN-F	B	4Gb	1223	1600/1DPC	12/19/2012
	RMT3170MK58F8F-1600	2GB	1Rx8		MT41K256M8DA-125:K	K	2Gb	1322	1600/1DPC	8/8/2013
	RMR3170ME68F9F-1600	4GB	1Rx8		MT41K512M8RH-125:E	E	4Gb	1320	1600/1DPC	6/24/2013
RMR3160ME68FAF-1600	8GB	2Rx8	MT41K512M8RH-125:E	E	4Gb	1322	1600/1DPC	10/24/2013		

BOLD = New Entry, * = 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	
FS1r2 & FP2	A-Data	MI74C1B0873Z2	2GB	1Rx8	Micron	MT41K256M8DA-125	M	2Gb	1150	1333/1DPC	*
		MI74C1C167HZ2	4GB	2Rx8		MT41K256M8DA-125	M	2Gb	1150	1333/1DPC	*
		AM1U16BC4P2	4GB	2Rx8	A-Data	3CCD-1211A	D	2Gb	U1213	1333/1DPC	*
	Samsung	M471B5273CH0-CH9	4GB	2Rx8	Samsung	K4B2G0846C-HCH9	C	2Gb	943	1333/1DPC	*
	Ramaxel	RMT3010EC58E8F-1333	2GB	1Rx8	Elpida	EDJ2108BCSE-DJ-F	C	2Gb	1128	1333/1DPC	*
		RMT3020EC58E9F-1333	4GB	2Rx8		EDJ2108BCSE-DJ-F	C	2Gb	1128	1333/1DPC	*
		RMT3160ED58E9W-1600	4GB	2Rx8		EDJ2108BDBG-GN-F	D	2Gb	1206	1333/1DPC	*

BOLD = New Entry, * = 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	
FS1r2 & FP2	Elpida	EBJ20UF8EDU0-DJ-F	2GB	1Rx8	Elpida	J2108EDBG-DJ-F	D	2Gb	1145	1333/1DPC	*
		EBJ41UF8EDU0-DJ-F	4GB	2Rx8		J2108EDBG-DJ-F	D	2Gb	1145	1333/1DPC	*
		EBJ40UG8EBU0-DJ-F	4GB	1Rx8		J4208EBBG-DJ-F	B	4Gb	1204	1333/1DPC	*
		EBJ81UG8EBU0-DJ-F	8GB	2Rx8		J4208EBBG-DJ-F	B	4Gb	1204	1333/1DPC	*
		EBJ41UF8BDU0-GN-F	4GB	2Rx8		J2108BDBG-GN-F	D	2Gb	1151	1333/1DPC	*
	Micron	MT8KTF25664HZ-1G4M1	2GB	1Rx8	Micron	MT41K256M8DA-125	M	2Gb	1112	1333/1DPC	*
		MT16KTF51264HZ-1G4M1	4GB	2Rx8		MT41K256M8DA-125	M	2Gb	1114	1333/1DPC	*
		MT8KTF51264HZ-1G4D1	4GB	1Rx8		MT41K512M8RA-15E	D	4Gb	1130	1333/1DPC	*
		MT16KTF1G64HZ-1G4D1	8GB	2Rx8		MT41K512M8RA-125	D	4Gb	1132	1333/1DPC	*
	Nanya	NT2GC64C88G0NS-CG	2GB	1Rx8	Nanya	NT5CC256M8GN-CG	G	2Gb	1140	1333/1DPC	*
		NT4GC64C88G0NS-CG	4GB	2Rx8		NT5CC256M8GN-CG	G	2Gb	1140	1333/1DPC	*
	Samsung	M471B5273CH0-CH9	4GB	2Rx8	Samsung	K4B2G0846C-HCH9	C	2Gb	943	1333/1DPC	*
	SK Hynix	HMT325S6CFR8A-H9	2GB	1Rx8	SK Hynix	H5TC2G83CFR-H9A	C	2Gb	136	1333/1DPC	*
		HMT325S6EFR8A-H9	2GB	1Rx8		H5TC2G83EFR-H9A	E	2Gb	1301	1333/1DPC	10/7/2013
		HMT351S6EFR8A-H9	4GB	2Rx8		H5TC2G83EFR-H9A	E	2Gb	1301	1333/1DPC	10/7/2013
		HMT351S6CFR8A-H9	4GB	2Rx8		H5TC2G83CFR-PBA	C	2Gb	130	1333/1DPC	*
HMT351S6CFR8A-H9		4GB	2Rx8	H5TC2G83CFR-H9A		C	2Gb	136	1333/1DPC	*	

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