

DDR3 DRAM Modules Evaluated with the 2014 AMD A-Series based Mainstream Desktop Platform (“Kaveri”)

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

Kaveri FM2+	DIMM Module				DRAM Component				Testing Data		
	Mfg	PN	Capacity	Rank/Width	Mfg	PN	Rev	IC Capacity	IC Date Code	Speed/Config	Date tested
Kaveri FM2+	SK Hynix	HMT425U6AFR6C-TE	2GB	1Rx16	SK Hynix	H5TQ4G63AFR-TEC	A	4Gb	1314	2133/1DPC	12/19/2013
		HMT451U6AFR8C-TE	4GB	1Rx8		H5TQ4G83AFR-TEC	A	4Gb	1313	2133/1DPC	12/20/2013
		HMT41GU6AFR8C-TE	8GB	2Rx8		H5TQ4G83AFR-TEC	A	4Gb	1313	2133/1DPC	12/20/2013

1866@1.5V

Kaveri FM2+	DIMM Module				DRAM Component				Testing Data			
	Mfg	PN	Capacity	Rank/Width	Mfg	PN	Rev	IC Capacity	IC Date Code	Speed/Config	Date tested	
Kaveri FM2+	Elpida	EBJ40UG8BFW0-JS-F	4GB	1Rx8	Elpida	EDJ4208BFBG-JS-F	F	4Gb	1244	1866/2DPC	12/4/2013	
		EBJ81UG8BFW0-JS-F	8GB	2Rx8		EDJ4208BFBG-JS-F	F	4Gb	1244	1866/2DPC	12/3/2013	
	Micron	MT4KTF25664AZ-1G9P1	2GB	1Rx16	Micron	MT41K256M16TW-107	P	4Gb	1544	1866/2DPC	3/4/2016	
		MT8KTF51264AZ-1G9P1	4GB	1Rx8		MT41K512M8DA-107	P	4Gb	1538	1866/2DPC	3/4/2016	
	Samsung	MT16KTF1G64AZ-1G9P1	8GB	2Rx8	Samsung	MT41K512M8DA-107	P	4Gb	1542	1866/2DPC	3/4/2016	
		M378B1G73BHO-CMA	2GB	2Rx8		K4B4G0846B-HCMA	B	4Gb	1231	1866/2DPC	12/3/2013	
	SK Hynix	SK Hynix	HMT425U6AFR6C-RD	2GB	1Rx16	SK Hynix	H5TQ4G63AFR-RDC	A	4Gb	1310	1866/2DPC	12/4/2013
			HMT425U6AFR6C-TE	2GB	1Rx16		H5TQ4G63AFR-TEC	A	4Gb	1314	1866/2DPC	12/4/2013
			HMT451U6AFR8C-RD	4GB	1Rx8		H5TQ4G83AFR-RDC	A	4Gb	1311	1866/2DPC	12/4/2013
			HMT451U6AFR8C-TE	4GB	1Rx8		H5TQ4G83AFR-TEC	A	4Gb	1313	1866/2DPC	12/4/2013
			HMT41GU6AFR8C-RD	8GB	2Rx8		H5TQ4G83AFR-RDC	A	4Gb	1311	1866/2DPC	12/4/2013
			HMT41GU6AFR8C-TE	8GB	2Rx8		H5TQ4G83AFR-TEC	A	4Gb	1313	1866/2DPC	12/4/2013

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
Kaveri FM2+	AMD	AE34G1609U1S	4GB	1Rx8		na	na	4Gb	na	1600/2DPC	4/10/2014
		AE38G1609U2S	8GB	2Rx8		na	na	4Gb	na	1600/2DPC	4/10/2014
	Samsung	M378B5773QB0-CK0	2GB	1Rx8	Samsung	K4B2G0846Q-BCK0	Q	2Gb	1404	1600/2DPC	3/7/2014
		M378B5173QH0-CK0	4GB	1Rx8		K4B4G0846Q-HCK0	Q	4Gb	1346	1600/2DPC	3/7/2014
		M378B5173DB0-CK0	4GB	1Rx8		K4B4G0846D-BCK0	D	4Gb	1407	1600/2DPC	3/7/2014
		M378B5173BH0-CK0	4GB	1Rx8		K4B4G0846B-HCK0	B	4Gb	1319	1600/2DPC	12/2/2013
		M378B5173EB0-CK0	4GB	1Rx8		K4B4G0846E-BCK0	E	4Gb	1411	1600/2DPC	6/30/2014
		M378B1G73EB0-CK0	8GB	2Rx8		K4B4G0846E-BCK0	E	4Gb	1411	1600/2DPC	6/30/2014
		M378B1G73QH0-CK0	8GB	2Rx8		K4B4G0846Q-HCK0	Q	4Gb	1407	1600/2DPC	3/18/2014
		M378B1G73DB0-CK0	8GB	2Rx8		K4B4G0846D-BCK0	D	4Gb	1407	1600/2DPC	3/18/2014
	Kingston	M378B1G73BH0-CK0	8GB	2Rx8	K4B4G0846B-HCK0	B	4Gb	1149	1600/2DPC	12/2/2013	
		KVR16N11S8/4	4GB	1Rx8	Elpida	J4208BBBG	B	4Gb	1226	1600/2DPC	2/12/2014
		KVR16N11/8	8GB	2Rx8		J4208BBBG	B	4Gb	1226	1600/2DPC	2/12/2014

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
Kaveri FM2+	Elpida	EBJ40UG8EFW0-GN-F	4GB	1Rx8	Elpida	EDJ4208EFBG-GN-F	F	4Gb	1229	1600/2DPC	12/3/2013
	Micron	MT4KTF25664AZ-1G6E1	2GB	1Rx16	Micron	MT41K256M16HA-125	E	4Gb	1220	1600/2DPC	12/3/2013
		MT4KTF25664AZ-1G6P1	2GB	1Rx16		MT41K256M16TW-107	P	4Gb	1544	1600/2DPC	2/29/2016
		MT8KTF51264AZ-1G6E1	4GB	1Rx8		MT41K512M8RH-125	E	4Gb	1208	1600/2DPC	12/3/2013
		MT8KTF51264AZ-1G6P1	4GB	1Rx8		MT41K512M8DA-107	P	4Gb	1538	1600/2DPC	2/29/2016
		MT16KTF1G64AZ-1G6P1	8GB	2Rx8		MT41K512M8DA-107	P	4Gb	1540	1600/2DPC	2/29/2016
	RamAxel	RMR5030MK58F8F-1600	2GB	1Rx8	Micron	MT41K256M8DA-125	K	2Gb	1322	1600/2DPC	1/16/2014
		RMR5070ME76F8F-1600	2GB	1Rx16		MT41K256M16HA-125	E	4Gb	1410	1600/2DPC	5/26/2014
		RMR5030KD68F9F-1600	4GB	1Rx8	Samsung	K4B4G0846D-BYK0	D	4Gb	1410	1600/2DPC	7/11/2014
		RMR5030ME68F9F-1600	4GB	1Rx8	Micron	MT41K512M8RH-125	E	4Gb	1222	1600/2DPC	1/16/2014
		RMR5040ME68FAF-1600	8GB	2Rx8		MT41K512M8RH-125	E	4Gb	1252	1600/1DPC	1/16/2014
	SK Hynix	HMT425U6AFR6A-PB	2GB	1Rx16	SK Hynix	H5TC4G63AFR-PBA	A	4Gb	1308	1600/2DPC	12/4/2013
		HMT425U6AFR6A-RD	2GB	1Rx16		H5TC4G63AFR-RDA	A	4Gb	1311	1600/2DPC	12/4/2013
HMT451U6AFR8A-PB		4GB	1Rx8	H5TC4G83AFR-PBA		A	4Gb	1247	1600/2DPC	12/3/2013	
HMT451U6AFR8A-RD		4GB	1Rx8	H5TC4G83AFR-RDA		A	4Gb	1313	1600/2DPC	12/2/2013	

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
Kingston	KVR13N9S8/4	4GB	1Rx8	Elpida	J4208BBBG	B	4Gb	1220	1333/2DPC	1/16/2014
	KVR1333D3N9/8G	8GB	2Rx8		J4208BBBG	B	4Gb	1206	1333/2DPC	1/16/2014

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	
Kaveri FM2+	Elpida	EBJ81UG8EFW0-GN-F	8GB	2Rx8	Elpida	F	4Gb		1333/2DPC	12/3/2013	
	Micron	MT16KTF1G64AZ-1G6E1	8GB	2Rx8	Micron	MT41K512M8RH-125	E	4Gb	1208	1333/2DPC	12/3/2013
		MT16KTF1G64AZ-1G9E1	8GB	2Rx8		MT41K512M8RH-125	E	4Gb	1232	1333/2DPC	12/3/2013
	RamAxel	RMR5040ME68FAF-1600	8GB	2Rx8	Micron	MT41K512M8RH-125	E	4Gb	1252	1333/2DPC	1/16/2014
	SK Hynix	HMT41GU6AFR8A-PB	8GB	2Rx8	SK Hynix	H5TC4G83AFR-PBA	A	4Gb	1312	1333/2DPC	12/2/2013
		HMT41GU6AFR8A-RD	8GB	2Rx8		H5TC4G83AFR-RDA	A	4Gb	1313	1333/2DPC	12/4/2013

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