

# DDR2 Registered DIMMs Evaluated with the 45nm Third-Generation AMD Opteron™ Socket F (1207) Processor

## Introduction

This list contains DDR2 registered DIMMs that have been evaluated by AMD and have shown reliable operation on the AMD internal reference platform with the Third-Generation AMD Opteron™ 45nm Processor. Testing included functional testing using frequency and  $V_{REF}$  margining, as well as functional corner testing over temperature and  $V_{DD}$ .

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## DDR2-800 Registered DIMMs

Supplier	DIMM Size	DIMM Config	DRAM Config	DIMM P/N
Elpida	1GB	1Rx8	128Mx8	EBE10AE8ACFA-8E-E
	2GB	2Rx8	128Mx8	EBE21AE8ACFA-8E-E
		1Rx4	256Mx4	EBE20AE4ACFA-8E-E
	4GB	2Rx4	256Mx4	EBE41AE4ACFA-8E-E
Hynix	1GB	1Rx8	128Mx8	HYMP112P72CP8-S5
				HMP112P7EFR8C-S6
	2GB	1Rx4	256Mx4	HYMP125P72CP4-S5
				HMP125P7EFR4C-S6
		2Rx8	128Mx8	HMP125P7EFR8C-S6
				HYMP125P72CP8-S6
	4GB	2Rx4	256Mx4	HMP125P7EFR8C-S6
				HYMP125P72CP8-S6
				HYMP151P72CP4-S6
				HYMP151P72CP4-S5
	8GB	2Rx4	512Mx4	HYMP151P72CP4-S6
				HYMP151P72CP4-S5
HYMP151P72CP4-S6				
HMP151P7EFR4C-S6				
Micron	1GB	1Rx8	128Mx8	MT9HTF12872PY-80EE 1
				MT9HTF12872PY-80EG1
	2GB	2Rx8	128Mx8	MT18HTF25672PDY-80EE 1
		1Rx4	256Mx4	MT18HTF25672PY-80EG1
	4GB	2Rx4	256Mx4	MT18HTF25672PY-80EE 1
MT36HTF51272PY-80EE 1				
Nanya	2GB	1Rx4	256Mx4	NT2GT72U4PD0BV-AD
	4GB	2Rx4	256Mx4	NT4GT72U4ND0BV-AD
Qimonda	1GB	1Rx8	128Mx8	HYS72T128001EP-25F-C2
				HYS72T256021EP-25F-C2
	2GB	2Rx8	128Mx8	HYS72T256000EP-25F-C2
		1Rx4	256Mx4	HYS72T512220EP-25F-C2
Samsung	1GB	1Rx8	128Mx8	M393T2863QZA-CF7
				M393T2863QZA-CE7
				M393T2950GZA-CF7
	2GB	2Rx8	128Mx8	M393T5663QZA-CE7
				M393T5663QZA-CF7
		1Rx4	256Mx4	M393T5660QZA-CE7
			128Mx4	M393T5750GZA-CF7
	4GB	2Rx4	256Mx4	M393T5160QZA-CE7
				M393T5160QZA-CF7
	8GB	2Rx4	st. 1024Mx4	M393T1K66AZA-CF7
Unigen	1GB	1Rx8	128Mx8	UG12T7200M8DR-8AN
	2GB	2Rx8	128Mx8	UG25T7200M8DR-8A0

## DDR2-667 Registered DIMMs

Supplier	DIMM Size	DIMM Config	DRAM Config	DIMM P/N
Elpida	1GB	1Rx8	128Mx8	EBE10AE8ACFA-6E-E
		2Rx8	128Mx8	EBE21AE8ACFA-6E-E
	2GB	1Rx4	256Mx4	EBE20AE4ACFA-6E-E
		2Rx4	128Mx4	EBE20AE4AFFA-6E-E
	4GB	2Rx4	256Mx4	EBE21AD4AJFA-6E-E
				EBE41AE4AFFA-6E-E
				EBE41AE4ABHA-6E-E
				EBE41AE4ACFA-6E-E
Hynix	512MB	1Rx8	64Mx8	HYMP564P72CP8-Y5
				HMP564P7FFP8C-Y5
	1GB	1Rx8	128Mx8	HMP112P7EFR8C-Y5
				HYMP112P72CP8-Y5
		1Rx4	128Mx4	HMP512P7FFP4C-Y5
				HYMP512P72CP4-Y5
	2GB	2Rx8	128Mx8	HYMP512P72CP4-Y5
				HYMP512P72CP4-Y5
		1Rx4	256Mx4	HMP125P7EFR8C-Y5
				HYMP125P72CP8-Y5
	2Rx4	128Mx4	HMP125P7EFR8C-Y5	
			HYMP125P72CP8-Y5	
	4GB	2Rx4	256Mx4	HYMP125P72CP4-Y5
				HYMP525P72CP4-Y5
				HMP151P7EFR4C-Y5
				HYMP151P72CP4-Y5
Micron	512MB	1Rx8	128Mx8	MT9HTF6472PY-667F1
	1GB	1Rx8	128Mx8	MT9HTF12872PY-667E1
				MT9HTF12872PY-667G1
		2Rx8	64Mx8	MT18HTF12872PDY-667F1
				MT18HTF12872PY-667F1
	2GB	1Rx4	256Mx4	MT18HTF12872PY-667D2
				MT18HTF25672PDY-667G1
		2Rx4	128Mx4	MT18HTF25672PY-667G1
				MT18HTF25672PY-667E2
				MT18HTF25672PY-667E1
4GB	2Rx4	256Mx4	MT36HTF25672PY-667F1	
			MT36HTF51272PY-667G1	
			MT36HTF51272PY-667E1	
				MT36HTS1G72PY-667A1
Nanya	1GB	1Rx8	128Mx8	NT1G72U89D0BV-3C
	2GB	1Rx4	256Mx4	NT2G72U4PD0BV-3C
	4GB	2Rx4	256Mx4	NT4G72U4ND0BV-3C
Qimonda	1GB	1Rx8	128Mx8	HYS72T128001EP-3S-C2
	2GB	1Rx4	256Mx4	HYS72T256000EP-3S-C2
				HYS72T256900EP-3S-C2
	4GB	2Rx4	256Mx4	HYS72T512220EP-3S-C2
8GB	2Rx4	512Mx4	HYS72T1G022EP-3S-A	
RamAxel	1GB	1Rx8	128Mx8	RMM2111EC48D7W-667
	4GB	2Rx4	256Mx4	RMM1801HC54D9F-667
Samsung	1GB	1Rx8	128Mx8	M393T2863QZA-CE6
		2Rx8	128Mx8	M393T5663QZA-CE6
	2GB	1Rx4	256Mx4	M393T5660QZA-CE6
		2Rx4	256Mx4	M393T5160QZA-CE6
4GB	2Rx4	256Mx4	M393T5160QZA-CE6	
				M393T1K66AZA-CE6
			st.1024Mx4	

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