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Product Roadmap

Memory

Q2'08

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SDRAM Registered DIMM



Density	2007		2008				2009				
	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
2GB				256Mx72 (2R 128Mx4) PC133							
1GB				128Mx72 (1R 128Mx4) PC133							
				128Mx72 (2R 64Mx4) PC133							
512MB				64Mx72 (1R 64Mx4) PC133							
				64Mx72 (2R 32Mx8) PC133							
256MB				32Mx72 (1R 32Mx8) PC133							
				32Mx72 (2R 16Mx8) PC133							
128MB				16Mx72 (1R 16Mx8) PC133							

SDRAM SODIMM



Density	2007		2008				2009				
	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
512MB				64Mx72 (1R 64Mx8) PC133							
				64Mx72 (2R 32Mx8) PC133							
256MB				32Mx64/72 (1R 32Mx8) PC133							
				32Mx64/72 (2R 16Mx16) PC133							
128MB				16Mx64/72 (1R 16Mx16) PC133							
				16Mx64/72 (1R 16Mx8) PC133							
64MB				8Mx64/72 (1R 8Mx16) PC133							
				4Mx64/72 (1R 4Mx16) PC133							
32MB											

DDR1 Registered DIMM



Density	2007		2008				2009				
	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
4GB				512Mx72 (4R 128Mx4) 266/333/400							
2GB				256Mx72 (2R 128Mx4) 266/333/400							
1GB				128Mx72 (1R 128Mx4) 266/333/400							
				128Mx72 (2R 64Mx8) 266/333/400							
512MB				64Mx72 (2R 64Mx4) 266/333/400							
				64Mx72 (1R 64Mx8) 266/333/400							
256MB				32Mx72 (1R 32Mx8) 266/333/400							

DDR1 VLP Registered DIMM



Density	2007		2008				2009			
	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
4GB	512Mx72 (4R 128Mx4 4H RAM-Stack) 266/333/400									
2GB	256Mx72 (2R 128Mx4 2H Stack) 266/333/400									
1GB	128Mx72 (1R 128Mx4) 266/333/400									
	128Mx72 (2R 64Mx8) 266/333/400									
512MB	64Mx72 (1R 64Mx8) 266/333/400									

DDR1 SODIMM



Density	2007		2008				2009			
	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
1GB	128Mx64/72 (2R 64Mx8) 266/333/400									
512MB	64Mx64/72 (1R 64Mx8) 266/333/400									
	64Mx64/72 (2R 32Mx8) 266/333/400									
256MB	32Mx64/72 (1R 32Mx8) 266/333/400									
128MB	16Mx64/72 (1R 16Mx16) 266/333/400									

DDR1 SOCDIMM



Density	2007		2008				2009			
	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
1GB	128Mx72 (2R 64Mx8) 266/333/400									
512MB	64Mx72 (1R 64Mx8) 266/333/400									
256MB	32Mx72 (1R 32Mx8) 266/333/400									

DDR1 SORDIMM



Density	2007		2008				2009				
	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
1GB				128Mx72 (2R 64Mx8)	266/333/400						
512MB				64Mx72 (1R 64Mx8)	266/333/400						
256MB				32Mx72 (1R 32Mx8)	266/333/400						

DDR1 Unbuffered DIMM



Density	2007		2008				2009			
	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
2GB			256Mx64/72 (2R 128Mx8) 266/333/400							
1GB			128Mx64/72 (2R 64Mx8) 266/333/400							
512MB			64Mx64/72 (1R 64Mx8) 266/333/400							
			64Mx64/72 (2R 32Mx8) 266/333/400							
256MB			32Mx64/72 (1R 32Mx8) 266/333/400							
128MB			16Mx64/72 (1R 16Mx16) 266/333/400							

DDR2 FB-DIMM



Density	2007		2008				2009				
	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
8GB				1Gx72 (4R 256Mx8) 533/667							
				1Gx72 (4R 256Mx4) 533/667							
4GB				512Mx72 (4R 128Mx8) 533/667							
				512Mx72 (2R 256Mx4) 533/667 800MHz							
2GB				256Mx72 (2R 128Mx4) 533/667 800MHz							
				256Mx72 (2R 128Mx8) 533/667 800MHz							
1GB				128Mx72 (2R 64Mx8) 533/667 800MHz							
512MB				64Mx72 (1R 64Mx8) 533/667 800MHz							

DDR2 Registered DIMM



Density	2007		2008				2009				
	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
8GB				1Gx72 (2R 512Mx4) 533/667							
4GB				512Mx72 (2R 256Mx4) 533/667 800MHz							
				512Mx72 (4R 128Mx4 Stack) 533/667							
2GB				256Mx72 (2R 128Mx4) 533/667 800MHz							
				256Mx72 (1R 256Mx4) 533/667 800MHz							
1GB				128Mx72 (1R 128Mx4) 533/667 800MHz							
				128Mx72 (2R 64Mx8) 533/667 800MHz							
512MB				64Mx72 (1R 64Mx8) 533/667 800MHz							

DDR2 VLP Registered DIMM



Density	2007		2008				2009				
	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
8GB				1Gx72 (2R 512Mx4 Stack 2H) 533							
				1Gx72 (4R 256Mx4 Stack 4H) 533							
4GB				512Mx72 (2R 256Mx4 Stack 2H) 533							
				512Mx72 (4R 128Mx4 Stack 4H) 533							
2GB				256Mx72 (2R 128Mx8) 533/667							
				256Mx72 (1R 256Mx4) 533/667							
				256Mx72 (2R 128Mx4 Stack) 533/667							
1GB				128Mx72 (1R 128Mx4) 533/667							
				128Mx72 (2R 64Mx8) 533/667							
512MB				64Mx72 (1R 64Mx8) 533/667							

DDR2 MiniRDIMM



Density	2007		2008				2009			
	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
8GB			1Gx72 (4R 256Mx4 4H-Stack) 533/667							
4GB			512Mx72 (4R 128Mx4 4H-Stack) 533/667							
2GB			512Mx72 (4R 128Mx8 Stack) 533/667							
1GB			256Mx72 (2R 128Mx8) 533/667 800MHz							
512MB			128Mx72 (1R 128Mx8) 533/667 800MHz							
256MB			128Mx72 (2R 64Mx8) 533/667 800MHz							
256MB			64Mx72 (1R 64Mx8) 533/667 800MHz							
256MB			32Mx72 (1R 32Mx16) 533/667 800MHz							

DDR2 VLP MiniRDIMM



Density	2007		2008				2009			
	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
4GB	512Mx72 (2R 256Mx8 Stack) 533/667									
			512Mx72 (4R 256Mx4 4H-Stack) 533/667 - Under Study -							
2GB	256Mx72 (2R 128Mx8 Stack) 533/667 800MHz									
1GB	128Mx72 (1R 128Mx8) 533/667 800MHz									
512MB	64Mx72 (1R 64Mx8) 533/667 800MHz									

DDR2 SODIMM



Density	2007		2008				2009				
	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
2GB				256Mx64 (2R 128Mx8) 533/667							
				800MHz							
1GB				128Mx64 (1R 128Mx8) 533/667							
				800MHz							
				128Mx64 (2R 64Mx8) 533/ 667							
				800MHz							
512MB				64Mx64 (1R 64Mx16) 533/667							
				800MHz							
				64Mx64 (1R 64Mx8) 533/667							
				800MHz							

DDR2 SOCDIMM



Density	2007		2008				2009			
	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
2GB	256Mx72 (2R 128Mx8) 533/667									
	800MHz									
1GB	128Mx72 (1R 128Mx8) 533/667									
	800MHz									
512MB	128Mx72 (2R 64Mx8) 533/ 667									
	800MHz									
512MB	64Mx72 (1R 64Mx8) 533/667									
	800MHz									

DDR2 SORDIMM



Density	2007		2008				2009			
	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
2GB	256Mx72 (2R 128Mx8) 533/667									
	800MHz									
1GB	128Mx72 (1R 128Mx8) 533/667									
	800MHz									
512MB	128Mx72 (2R 64Mx8) 533/ 667									
	800MHz									
512MB	64Mx72 (1R 64Mx8) 533/667									
	800MHz									

DDR2 Unbuffered DIMM



Density	2007		2008				2009			
	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
4GB				512Mx64/72 (2R 256Mx8) 533/667						
				800MHz						
2GB				256Mx64/72 (2R 128Mx8) 533/667						
				800MHz						
1GB				128Mx64/72 (1R 128Mx8) 533/667						
				800MHz						
				128Mx64/72 (2R 64Mx8) 533/ 667						
				800MHz						
512MB				64Mx64/72 (1R 64Mx8) 533/667						
				800MHz						
256MB				32Mx64/72 (1R 32Mx16) 533/667						
				800MHz						

DDR3 VLP RDIMM



Density	2007		2008				2009			
	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
8GB	1Gx72 (4R 256Mx4 4 H Stack) PC3 800 - PC3 1333									
	1Gx72 (2R 512Mx4 2H Stack) PC3 800 - PC3 1333									
4GB	512Mx72 (2R 256Mx8) PC3 800 - PC3 1333									
	512Mx72 (1R 512Mx4) PC3 800 - PC3 1333									
	512Mx72 (2R 256Mx4 2H Stack / DDP) PC3 800 - PC3 1333									
2GB	256Mx72 (1R 256Mx4) PC3 800 - PC3 1333									
	256Mx72 (2R 128Mx8) PC3 800 - PC3 1333									
	128Mx72 (1R 128Mx8) PC3 800 - PC3 1333									
1GB	128Mx72 (1R 128Mx8) PC3 800 - PC3 1333									

DDR3 Registered DIMM



Density	2007		2008				2009				
	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
16GB				2Gx72 (2R 1Gx4) PC3 800 - PC3 1333							
8GB											
				1Gx72 (2R 512Mx4) PC3 800 - PC3 1333							
4GB											
				1Gx72 (4R 256Mx4) PC3 6400 - 10600							
2GB											
				512Mx72 (1R 512Mx4) PC3 800 - PC3 1333							
1GB											
				512Mx72 (2R 256Mx4) PC3 800 - PC3 1333							
				256Mx72 (1R 256Mx4) PC3 800 - PC3 1333							
				256Mx72 (2R 128Mx8) PC3 800 - PC3 1333							
				128Mx72 (1R 128Mx8) PC3 800 - PC3 1333							

DDR3 SODIMM



Density	2007		2008				2009				
	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
4GB											
2GB											
1GB											
512MB											

DDR3 Unbuffered DIMM



CS
MP
EOL

Density	2007		2008				2009			
	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
4GB			512Mx64/72 (2R 256Mx8) PC3 800 - PC3 1333							
2GB			256Mx64/72 (2R 128Mx8) PC3 800 - PC3 1333							
1GB			128Mx64/72 (1R 128Mx8) PC3 800 - PC3 1333							
512MB			64Mx64/72 (1R 64Mx16) PC3 800 - PC3 1333							

Rambus™ SORIMM



Density	2007		2008				2009				
	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
576MB				256Mx18 (288Mb) 800/1066							
288MB				128Mx18 (288Mb) 800/1066							
144MB				64Mx18 (288Mb) 800/1066							

Rambus™ NexMod™



Density	2007		2008				2009			
	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
576MB	256Mx18 (288Mb) 800/1066 - BGA & PGA									
288MB	128Mx18 (288Mb) 800/1066 - BGA & PGA									
144MB	64Mx18 (288Mb) 800/1066 - BGA & PGA									
72MB	32Mx18 (288Mb) 800/1066 - BGA & PGA									

COMPACT FLASH / PC-Card



Density	2007		2008				2009				
	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
64GB											
	SMI223: Commercial & Industrial Temp										
32GB											
	SMI223: Commercial & Industrial Temp										
16GB											
	SMI222/SMI223: Commercial & Industrial Temp										
8GB											
	SMI222/SMI223: Commercial & Industrial Temp										
4GB											
	SMI222/SMI223: Commercial & Industrial Temp										
2GB											
	SMI222/SMI223: Commercial & Industrial Temp										
1GB											
	SMI222/SMI223: Commercial & Industrial Temp										
512MB											
	SMI222/SMI223: Commercial & Industrial Temp										
256MB											
	SMI222/SMI223: Commercial & Industrial Temp										
128MB											
	SMI222/SMI223: Commercial & Industrial Temp										
64MB											
	SMI222/SMI223: Commercial & Industrial Temp										
32MB											
	SMI222/SMI223: Commercial & Industrial Temp										

DFC (Discrete Flash Card) IDE & CF Interface



Density	2007		2008				2009			
	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
8GB										
4GB										
2GB										
1GB										
512MB										
256MB										
128MB										
64MB										
32MB										

eUSB (Embedded USB Drive)



Density	2007		2008				2009			
	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
16GB			SMI324: Commercial & Industrial Temp							
8GB			SMI324: Commercial & Industrial Temp							
4GB	SMI324: Commercial & Industrial Temp									
2GB	SMI324: Commercial & Industrial Temp									
1GB	SMI324: Commercial & Industrial Temp									
512MB	SMI324: Commercial & Industrial Temp									
256MB	SMI324: Commercial & Industrial Temp									
128MB	SMI324: Commercial & Industrial Temp									
64MB	SMI324: Commercial & Industrial Temp									



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THANK YOU



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