

# Q3' 2011 DATABOOK

Rev 0.0

Hynix  
Dreams  
Good Memory



**hynix**



# Computing Memory

## DDR3 SDRAM : Component

VDD	DENSITY	ORG.	SPEED	PART NUMBER	PKG.	FEATURE	AVAIL.		
1.5V	1Gb	256Mx4	DDR3 1333	H5TQ1G43BFR-H9C	FBGA(78ball)	8Bank, 1.5V, CL9,9-9-9	EOL		
				H5TQ1G43TFR-H9C	FBGA(78ball)	8Bank, 1.5V, CL9,9-9-9	Now		
			DDR3 1066	H5TQ1G43BFR-G7C	FBGA(78ball)	8Bank, 1.5V, CL7,7-7-7	EOL		
				H5TQ1G43TFR-G7C	FBGA(78ball)	8Bank, 1.5V, CL7,7-7-7	Now		
			128Mx8	DDR3 1333	H5TQ1G83BFR-H9C	FBGA(78ball)	8Bank, 1.5V, CL9,9-9-9	EOL	
					H5TQ1G83TFR-H9C	FBGA(78ball)	8Bank, 1.5V, CL9,9-9-9	Now	
		DDR3 1066		H5TQ1G83BFR-G7C	FBGA(78ball)	8Bank, 1.5V, CL7,7-7-7	EOL		
				H5TQ1G83TFR-G7C	FBGA(78ball)	8Bank, 1.5V, CL7,7-7-7	Now		
		64Mx16	DDR3 1333	H5TQ1G63BFR-H9C	FBGA(96ball)	8Bank, 1.5V, CL9,9-9-9	EOL		
			DDR3 1066	H5TQ1G63BFR-G7C	FBGA(96ball)	8Bank, 1.5V, CL7,7-7-7	EOL		
		2Gb	512Mx4	DDR3 1600	H5TQ2G43BFR-PBC	FBGA(82ball)	8Bank, 1.5V, CL11,11-11-11	Now	
					H5TQ2G43CFR-PBC	FBGA(78ball)	8Bank, 1.5V, CL11,11-11-11	Now	
	DDR3 1333				H5TQ2G43BFR-H9C	FBGA(82ball)	8Bank, 1.5V, CL9,9-9-9	Now	
					H5TQ2G43CFR-H9C	FBGA(78ball)	8Bank, 1.5V, CL9,9-9-9	Now	
	DDR3 1066			H5TQ2G43BFR-G7C	FBGA(82ball)	8Bank, 1.5V, CL7,7-7-7	Now		
				H5TQ2G43CFR-G7C	FBGA(78ball)	8Bank, 1.5V, CL7,7-7-7	Now		
				256Mx8	DDR3 1600	H5TQ2G83BFR-PBC	FBGA(82ball)	8Bank, 1.5V, CL11,11-11-11	Now
						H5TQ2G83CFR-PBC	FBGA(78ball)	8Bank, 1.5V, CL11,11-11-11	Now
	DDR3 1333				H5TQ2G83BFR-H9C	FBGA(82ball)	8Bank, 1.5V, CL9,9-9-9	Now	
					H5TQ2G83CFR-H9C	FBGA(78ball)	8Bank, 1.5V, CL9,9-9-9	Now	
	DDR3 1066			H5TQ2G83BFR-G7C	FBGA(82ball)	8Bank, 1.5V, CL7,7-7-7	Now		
				H5TQ2G83CFR-G7C	FBGA(78ball)	8Bank, 1.5V, CL7,7-7-7	Now		
			128Mx16	DDR3 1600	H5TQ2G63BFR-PBC	FBGA(96ball)	8Bank, 1.5V, CL11,11-11-11	Now	
				DDR3 1333	H5TQ2G63BFR-H9C	FBGA(96ball)	8Bank, 1.5V, CL9,9-9-9	Now	
DDR3 1066	H5TQ2G63BFR-G7C			FBGA(96ball)	8Bank, 1.5V, CL7,7-7-7	Now			
4Gb	1Gx4		DDR3 1600	H5TQ4G43MFR-PBC	FBGA(78ball)	8Bank, 1.5V, CL11,11-11-11	Now		
				DDR3 1333	H5TQ4G43MFR-H9C	FBGA(78ball)	8Bank, 1.5V, CL9,9-9-9	Now	
					H5TQ4G43MFR-G7C	FBGA(78ball)	8Bank, 1.5V, CL7,7-7-7	Now	
			DDR3 1066	H5TQ4G43BMR-PBC	FBGA(82ball)	8Bank, 1.5V, CL11,11-11-11	Now		
				DDR3 1333	H5TQ4G43BMR-H9C	FBGA(82ball)	8Bank, 1.5V, CL9,9-9-9	Now	
					H5TQ4G43BMR-G7C	FBGA(82ball)	8Bank, 1.5V, CL7,7-7-7	Now	
			512Mx8	DDR3 1600	H5TQ4G83MFR-PBC	FBGA(78ball)	8Bank, 1.5V, CL11,11-11-11	Now	
					DDR3 1333	H5TQ4G83MFR-H9C	FBGA(78ball)	8Bank, 1.5V, CL9,9-9-9	Now
						H5TQ4G83MFR-G7C	FBGA(78ball)	8Bank, 1.5V, CL7,7-7-7	Now
	512Mx8 (DDP)	DDR3 1600	H5TQ4G83BMR-PBC	FBGA(82ball)	8Bank, 1.5V, CL11,11-11-11	Now			
			DDR3 1333	H5TQ4G83BMR-H9C	FBGA(82ball)	8Bank, 1.5V, CL9,9-9-9	Now		
				H5TQ4G83BMR-G7C	FBGA(82ball)	8Bank, 1.5V, CL7,7-7-7	Now		
	8Gb	2Gx4 (DDP)	DDR3 1600	H5TQ8G43MMR-PBC	FBGA(78ball)	8Bank, 1.5V, CL11,11-11-11	Q4'11		
				DDR3 1333	H5TQ8G43MMR-H9C	FBGA(78ball)	8Bank, 1.5V, CL9,9-9-9	Q4'11	
					H5TQ8G43MMR-G7C	FBGA(78ball)	8Bank, 1.5V, CL7,7-7-7	Q4'11	
		1Gx8 (DDP)	DDR3 1600	H5TQ8G83MMR-PBC	FBGA(78ball)	8Bank, 1.5V, CL11,11-11-11	Q4'11		
				DDR3 1333	H5TQ8G83MMR-H9C	FBGA(78ball)	8Bank, 1.5V, CL9,9-9-9	Q4'11	
					H5TQ8G83MMR-G7C	FBGA(78ball)	8Bank, 1.5V, CL7,7-7-7	Q4'11	



# Computing Memory

## DDR3 SDRAM : Component

VDD	DENSITY	ORG.	SPEED	PART NUMBER	PKG.	FEATURE	AVAIL.	
1.35V	1Gb	256Mx4	DDR3 1333	H5TC1G43TFR-H9A	FBGA(78ball)	8Bank, 1.35V, CL9,9-9-9	Now	
			DDR3 1066	H5TC1G43TFR-G7A	FBGA(78ball)	8Bank, 1.35V, CL7,7-7-7	Now	
		128Mx8	DDR3 1333	H5TC1G83TFR-H9A	FBGA(78ball)	8Bank, 1.35V, CL9,9-9-9	Now	
			DDR3 1066	H5TC1G83TFR-G7A	FBGA(78ball)	8Bank, 1.35V, CL7,7-7-7	Now	
	2Gb	512Mx4	DDR3 1600	H5TC2G43BFR-PBA	FBGA(82ball)	8Bank, 1.5V, CL11,11-11-11	Now	
				H5TC2G43CFR-PBA	FBGA(78ball)	8Bank, 1.5V, CL11,11-11-11	Now	
			DDR3 1333	H5TC2G43BFR-H9A	FBGA(82ball)	8Bank, 1.35V, CL9,9-9-9	Now	
				H5TC2G43CFR-H9A	FBGA(78ball)	8Bank, 1.35V, CL9,9-9-9	Now	
			DDR3 1066	H5TC2G43BFR-G7A	FBGA(82ball)	8Bank, 1.35V, CL7,7-7-7	Now	
				H5TC2G43CFR-G7A	FBGA(78ball)	8Bank, 1.35V, CL7,7-7-7	Now	
		256Mx8	DDR3 1600	H5TC2G83BFR-PBA	FBGA(82ball)	8Bank, 1.5V, CL11,11-11-11	Now	
				H5TC2G83CFR-PBA	FBGA(78ball)	8Bank, 1.5V, CL11,11-11-11	Now	
			DDR3 1333	H5TC2G83BFR-H9A	FBGA(82ball)	8Bank, 1.35V, CL9,9-9-9	Now	
				H5TC2G83CFR-H9A	FBGA(78ball)	8Bank, 1.35V, CL9,9-9-9	Now	
			DDR3 1066	H5TC2G83BFR-G7A	FBGA(82ball)	8Bank, 1.35V, CL7,7-7-7	Now	
				H5TC2G83CFR-G7A	FBGA(78ball)	8Bank, 1.35V, CL7,7-7-7	Now	
	4Gb	1Gx4	DDR3 1333	H5TC4G43MFR-H9A	FBGA(78ball)	8Bank, 1.35V, CL9,9-9-9	Now	
			DDR3 1066	H5TC4G43MFR-G7A	FBGA(78ball)	8Bank, 1.35V, CL7,7-7-7	Now	
		512Mx8	DDR3 1333	H5TC4G43BMR-H9A	FBGA(82ball)	8Bank, 1.35V, CL9,9-9-9	Now	
			DDR3 1066	H5TC4G43BMR-G7A	FBGA(82ball)	8Bank, 1.35V, CL7,7-7-7	Now	
DDR3 1333			H5TC4G83MFR-H9A	FBGA(78ball)	8Bank, 1.35V, CL9,9-9-9	Now		
DDR3 1066			H5TC4G83MFR-G7A	FBGA(78ball)	8Bank, 1.35V, CL7,7-7-7	Now		
		DDR3 1333	H5TC4G83BMR-H9A	FBGA(82ball)	8Bank, 1.35V, CL9,9-9-9	Now		
			H5TC4G83BMR-G7A	FBGA(82ball)	8Bank, 1.35V, CL7,7-7-7	Now		
		8Gb	2Gx4 (DDP)	DDR3 1333	H5TC8G43MMR-H9C	FBGA(78ball)	8Bank, 1.35V, CL9,9-9-9	Q4'11
				DDR3 1066	H5TC8G43MMR-G7A	FBGA(78ball)	8Bank, 1.35V, CL7,7-7-7	Q4'11
		1Gx8 (DDP)	DDR3 1333	H5TC8G83MMR-H9A	FBGA(78ball)	8Bank, 1.35V, CL9,9-9-9	Q4'11	
			DDR3 1066	H5TC8G83MMR-G7A	FBGA(78ball)	8Bank, 1.35V, CL7,7-7-7	Q4'11	



# Computing Memory

## DDR2 SDRAM : Component

VDD	DENSITY	ORG.	SPEED	PART NUMBER	PKG.	FEATURE	AVAIL.
1.8V	2Gb	512Mx4	DDR2 800	H5PS2G43AFR-S6C	FBGA(60ball)	8Bank, 1.8V, CL5,6-6-6	EOL
			DDR2 667	H5PS2G43AFR-Y5C	FBGA(60ball)	8Bank, 1.8V, CL5,5-5-5	EOL
		256Mx8	DDR2 800	H5PS2G83AFR-S6C	FBGA(60ball)	8Bank, 1.8V, CL5,6-6-6	Now
			DDR2 667	H5PS2G83AFR-Y5C	FBGA(60ball)	8Bank, 1.8V, CL5,5-5-5	Now
	1Gb	256Mx4	DDR2 800	HY5PS1G431CFP-S5	FBGA(60ball)	8Bank, 1.8V, CL5,5-5-5	EOL
				H5PS1G43EFR-S5C	FBGA(60ball)	8Bank, 1.8V, CL5,5-5-5	EOL
			DDR2 667	HY5PS1G431CFP-Y5	FBGA(60ball)	8Bank, 1.8V, CL5,5-5-5	EOL
				H5PS1G43EFR-Y5C	FBGA(60ball)	8Bank, 1.8V, CL5,5-5-5	EOL
			DDR2 533	HY5PS1G431CFP-C4	FBGA(60ball)	8Bank, 1.8V, CL4,4-4-4	EOL
				H5PS1G43EFR-C4C	FBGA(60ball)	8Bank, 1.8V, CL4,4-4-4	EOL
		DDR2 400	HY5PS1G431CFP-E3	FBGA(60ball)	8Bank, 1.8V, CL3,3-3-3	EOL	
		128Mx8	DDR2 800	HY5PS1G831CFP-S5	FBGA(60ball)	8Bank, 1.8V, CL5,5-5-5	EOL: Q3'11
				H5PS1G83EFR-S5C	FBGA(60ball)	8Bank, 1.8V, CL5,5-5-5	Now
			DDR2 667	HY5PS1G831CFP-Y5	FBGA(60ball)	8Bank, 1.8V, CL5,5-5-5	EOL: Q3'11
				H5PS1G83EFR-Y5C	FBGA(60ball)	8Bank, 1.8V, CL5,5-5-5	Now
			DDR2 533	HY5PS1G831CFP-C4	FBGA(60ball)	8Bank, 1.8V, CL4,4-4-4	EOL: Q3'11
	H5PS1G43EFR-C4C			FBGA(60ball)	8Bank, 1.8V, CL4,4-4-4	Now	
	DDR2 400	HY5PS1G831CFP-E3	FBGA(60ball)	8Bank, 1.8V, CL3,3-3-3	EOL: Q3'11		
	64Mx16	DDR2 800	HY5PS1G1631CFP-S5	FBGA(84ball)	8Bank, 1.8V, CL5,5-5-5	EOL: Q3'11	
			H5PS1G63EFR-S5C	FBGA(84ball)	8Bank, 1.8V, CL5,5-5-5	Now	
		DDR2 667	HY5PS1G1631CFP-Y5	FBGA(84ball)	8Bank, 1.8V, CL5,5-5-5	EOL: Q3'11	
			H5PS1G63EFR-Y5C	FBGA(60ball)	8Bank, 1.8V, CL5,5-5-5	Now	
		DDR2 533	HY5PS1G1631CFP-C4	FBGA(84ball)	8Bank, 1.8V, CL5,4-4-4	EOL: Q3'11	
		DDR2 400	HY5PS1G1631CFP-E3	FBGA(84ball)	8Bank, 1.8V, CL5,3-3-3	EOL: Q3'11	

# Computing Memory

## DDR3 SDRAM : Module - UBDIMM

VDD	MODULE		BASED COM.	SPEED	PART NUMBER	COMPONENT PKG.	#OF RANK	HEIGHT	AVAIL.	
	DENSITY	ORG.								
1.5V	8GB	1Gx64	512Mx8	1600-111111	HMT41GU6MFR8C-PB	FBGA(78ball)	2	30mm	Q3'11	
				1333-999	HMT41GU6MFR8C-H9	FBGA(78ball)	2	30mm	Q3'11	
				1066-777	HMT41GU6MFR8C-G7	FBGA(78ball)	2	30mm	Q3'11	
		1Gx72	512Mx8	1600-111111	HMT41GU7MFR8C-PB	FBGA(78ball)	2	30mm	Q3'11	
				1333-999	HMT41GU7MFR8C-H9	FBGA(78ball)	2	30mm	Q3'11	
				1066-777	HMT41GU7MFR8C-G7	FBGA(78ball)	2	30mm	Q3'11	
	4GB	512Mx64	256Mx8	1600-111111	HMT351U6BFR8C-PB	FBGA(82ball)	2	30mm	Now	
					HMT351U6CFR8C-PB	FBGA(78ball)	2	30mm	Now	
					1333-999	HMT351U6BFR8C-H9	FBGA(82ball)	2	30mm	Now
					HMT351U6CFR8C-H9	FBGA(78ball)	2	30mm	Now	
					1066-777	HMT351U6BFR8C-G7	FBGA(82ball)	2	30mm	Now
					HMT351U6CFR8C-G7	FBGA(78ball)	2	30mm	Now	
		512Mx72	256Mx8	1600-111111	HMT351U7BFR8C-PB	FBGA(82ball)	2	30mm	Now	
					HMT351U7CFR8C-PB	FBGA(78ball)	2	30mm	Now	
					1333-999	HMT351U7BFR8C-H9	FBGA(82ball)	2	30mm	Now
					HMT351U7CFR8C-H9	FBGA(78ball)	2	30mm	Now	
					1066-777	HMT351U7BFR8C-G7	FBGA(82ball)	2	30mm	Now
					HMT351U7CFR8C-G7	FBGA(78ball)	2	30mm	Now	
2GB	256Mx64	128Mx8	1333-999	HMT125U6BFR8C-H9	FBGA(78ball)	2	30mm	EOL		
				HMT125U6TFR8C-H9	FBGA(78ball)	2	30mm	Now		
				1066-777	HMT125U6BFR8C-G7	FBGA(78ball)	2	30mm	EOL	
				HMT125U6TFR8C-G7	FBGA(78ball)	2	30mm	Now		
				800-666	HMT125U6BFR8C-S6	FBGA(78ball)	2	30mm	EOL	
				HMT125U6TFR8C-S6	FBGA(78ball)	2	30mm	Now		
		256Mx8	1600-111111	HMT325U6BFR8C-PB	FBGA(82ball)	1	30mm	Now		
				HMT325U6CFR8C-PB	FBGA(78ball)	1	30mm	Now		
				1333-999	HMT325U6BFR8C-H9	FBGA(82ball)	1	30mm	Now	
				HMT325U6CFR8C-H9	FBGA(78ball)	1	30mm	Now		
				1066-777	HMT325U6BFR8C-G7	FBGA(82ball)	1	30mm	Now	
				HMT325U6CFR8C-G7	FBGA(78ball)	1	30mm	Now		
	256Mx72	128Mx8	1333-999	HMT125U7TFR8C-H9	FBGA(78ball)	2	30mm	Now		
				1066-777	HMT125U7TFR8C-G7	FBGA(78ball)	2	30mm	Now	
				800-666	HMT125U7TFR8C-S6	FBGA(78ball)	2	30mm	Now	
		256Mx8	1600-111111	HMT325U7BFR8C-PB	FBGA(82ball)	1	30mm	Now		
				HMT325U7CFR8C-PB	FBGA(78ball)	1	30mm	Now		
				1333-999	HMT325U7BFR8C-H9	FBGA(82ball)	1	30mm	Now	
1066-777	HMT325U7CFR8C-H9	FBGA(78ball)	1	30mm	Now					
		HMT325U7BFR8C-G7	FBGA(82ball)	1	30mm	Now				
		HMT325U7CFR8C-G7	FBGA(78ball)	1	30mm	Now				
1GB	128Mx64	128Mx8	1333-999	HMT112U6BFR8C-H9	FBGA(78ball)	1	30mm	EOL		
				HMT112U6TFR8C-H9	FBGA(78ball)	1	30mm	Now		
				1066-777	HMT112U6BFR8C-G7	FBGA(78ball)	1	30mm	EOL	
				HMT112U6TFR8C-G7	FBGA(78ball)	1	30mm	Now		
				800-666	HMT112U6BFR8C-S6	FBGA(78ball)	1	30mm	EOL	
				HMT112U6TFR8C-S6	FBGA(78ball)	1	30mm	Now		
	128Mx72	128Mx8	1333-999	HMT112U7TFR8C-H9	FBGA(78ball)	1	30mm	Now		
				1066-777	HMT112U7TFR8C-G7	FBGA(78ball)	1	30mm	Now	
				800-666	HMT112U7TFR8C-S6	FBGA(78ball)	1	30mm	Now	

# Computing Memory

## DDR3 SDRAM : Module - UBDIMM

VDD	MODULE		BASED COM.	SPEED	PART NUMBER	COMPONENT PKG.	#OF RANK	HEIGHT	AVAIL.
	DENSITY	ORG.							
1.35V	8GB	1Gx72	512Mx8	1333-999	HMT41GU7MFR8A-H9	FBGA(78ball)	2	30mm	Q3'11
				1066-777	HMT41GU7MFR8A-G7	FBGA(78ball)	2	30mm	Q3'11
	4GB	512Mx72	256Mx8	1600-111111	HMT351U7BFR8A-PB	FBGA(82ball)	2	30mm	Now
					HMT351U7CFR8A-PB	FBGA(78ball)	2	30mm	Q3'11
				1333-999	HMT351U7BFR8A-H9	FBGA(82ball)	2	30mm	Now
					HMT351U7CFR8A-H9	FBGA(78ball)	2	30mm	Q3'11
				1066-777	HMT351U7BFR8A-G7	FBGA(82ball)	2	30mm	Now
					HMT351U7CFR8A-G7	FBGA(78ball)	2	30mm	Q3'11
	2GB	256Mx72	256Mx8	1600-111111	HMT325U7BFR8A-PB	FBGA(82ball)	1	30mm	Now
					HMT325U7CFR8A-PB	FBGA(78ball)	1	30mm	Q3'11
				1333-999	HMT325U7BFR8A-H9	FBGA(82ball)	1	30mm	Now
					HMT325U7CFR8A-H9	FBGA(78ball)	1	30mm	Q3'11
			1066-777	HMT325U7BFR8A-G7	FBGA(82ball)	1	30mm	Now	
				HMT325U7CFR8A-G7	FBGA(78ball)	1	30mm	Q3'11	
256Mx72			128Mx8	1333-999	HMT125U7TFR8A-H9	FBGA(78ball)	2	30mm	Now
				1066-777	HMT125U7TFR8A-G7	FBGA(78ball)	2	30mm	Now
1GB	128Mx72	128Mx8	1333-999	HMT112U7TFR8A-H9	FBGA(78ball)	1	30mm	Now	
			1066-777	HMT112U7TFR8A-G7	FBGA(78ball)	1	30mm	Now	

# Computing Memory

## DDR3 SDRAM : Module - RDIMM

VDD	MODULE		BASED COM.	SPEED	PART NUMBER	COMPONENT PKG.	#OF RANK	HEIGHT	AVAIL.			
	DENSITY	ORG.										
1.5V	32GB	4Gx72	2Gx4 (DDP)	1333-999	HMT84GR7MMR4C-H9	FBGA(78ball)	4	30mm	Q4'11			
				1066-777	HMT84GR7MMR4C-G7	FBGA(78ball)	4	30mm	Q4'11			
	16GB	2Gx72	1Gx4	1600-111111	HMT42GR7MFR4C-PB	FBGA(78ball)	2	30mm	Q3'11			
				1333-999	HMT42GR7MFR4C-H9	FBGA(78ball)	2	30mm	Q3'11			
				1066-777	HMT42GR7MFR4C-G7	FBGA(78ball)	2	30mm	Q3'11			
			1Gx4 (DDP)	1333-999	HMT42GR7BMR4C-H9	FBGA(82ball)	4	30mm	Now			
				1066-777	HMT42GR7BMR4C-G7	FBGA(82ball)	4	30mm	Now			
				8GB	1Gx72	512Mx4	1600-111111	HMT31GR7BFR4C-PB	FBGA(82ball)	2	30mm	Now
	HMT31GR7CFR4C-PB	FBGA(78ball)	2					30mm	Q3'11			
	1333-999	HMT31GR7BFR4C-H9	FBGA(82ball)				2	30mm	Now			
		HMT31GR7CFR4C-H9	FBGA(78ball)				2	30mm	Q3'11			
	1066-777	HMT31GR7BFR4C-G7	FBGA(82ball)				2	30mm	Now			
		HMT31GR7CFR4C-G7	FBGA(78ball)				2	30mm	Q3'11			
	256Mx8	1333-999	HMT31GR7BFR8C-H9			FBGA(82ball)	4	30mm	Now			
			HMT31GR7CFR8C-H9			FBGA(78ball)	4	30mm	Q3'11			
		1066-777	HMT31GR7BFR8C-G7			FBGA(82ball)	4	30mm	Now			
			HMT31GR7CFR8C-G7			FBGA(78ball)	4	30mm	Q3'11			
		4GB	512Mx72			256Mx8	1600-111111	HMT351R7BFR8C-PB	FBGA(82ball)	2	30mm	Now
								HMT351R7CFR8C-PB	FBGA(78ball)	2	30mm	Q3'11
	1333-999			HMT351R7BFR8C-H9	FBGA(82ball)		2	30mm	Now			
				HMT351R7CFR8C-H9	FBGA(78ball)		2	30mm	Q3'11			
	1066-777			HMT351R7BFR8C-G7	FBGA(82ball)		2	30mm	Now			
				HMT351R7CFR8C-G7	FBGA(78ball)		2	30mm	Q3'11			
	512Mx4			1600-111111	HMT351R7BFR4C-PB		FBGA(82ball)	1	30mm	Now		
					HMT351R7CFR4C-PB		FBGA(78ball)	1	30mm	Q3'11		
				1333-999	HMT351R7BFR4C-H9		FBGA(82ball)	1	30mm	Now		
					HMT351R7CFR4C-H9		FBGA(78ball)	1	30mm	Q3'11		
				1066-777	HMT351R7BFR4C-G7		FBGA(82ball)	1	30mm	Now		
					HMT351R7CFR4C-G7		FBGA(78ball)	1	30mm	Q3'11		
	128Mx8			1333-999	HMT151R7TFR8C-H9	FBGA(78ball)	4	30mm	Now			
					HMT151R7TFR8C-G7	FBGA(78ball)	4	30mm	Now			
				1066-777	HMT151R7TFR8C-H9	FBGA(78ball)	4	30mm	Now			
HMT151R7TFR8C-G7					FBGA(78ball)	4	30mm	Now				
256Mx4				1333-999	HMT151R7TFR4C-H9	FBGA(78ball)	2	30mm	Now			
				1066-777	HMT151R7TFR4C-G7	FBGA(78ball)	2	30mm	Now			
2GB	256Mx72	256Mx8	1600-111111	HMT325R7BFR8C-PB	FBGA(82ball)	1	30mm	Now				
				HMT325R7CFR8C-PB	FBGA(78ball)	1	30mm	Q3'11				
			1333-999	HMT325R7BFR8C-H9	FBGA(82ball)	1	30mm	Now				
				HMT325R7CFR8C-H9	FBGA(78ball)	1	30mm	Q3'11				
			1066-777	HMT325R7BFR8C-G7	FBGA(82ball)	1	30mm	Now				
				HMT325R7CFR8C-G7	FBGA(78ball)	1	30mm	Q3'11				
			256Mx4	1333-999	HMT125R7TFR4C-H9	FBGA(78ball)	1	30mm	Now			
				1066-777	HMT125R7TFR4C-G7	FBGA(78ball)	1	30mm	Now			
			128Mx8	1333-999	HMT125R7TFR8C-H9	FBGA(78ball)	2	30mm	Now			
				1066-777	HMT125R7TFR8C-G7	FBGA(78ball)	2	30mm	Now			
			1GB	128Mx72	128Mx8	1333-999	HMT112R7TFR8C-H9	FBGA(78ball)	1	30mm	Now	
						1066-777	HMT112R7TFR8C-G7	FBGA(78ball)	1	30mm	Now	

# Computing Memory

## DDR3 SDRAM : Module - RDIMM

VDD	MODULE		BASED COM.	SPEED	PART NUMBER	COMPONENT PKG.	#OF RANK	HEIGHT	AVAIL.
	DENSITY	ORG.							
1.35V	32GB	4Gx72	2Gx4 (DDP)	1333-999	HMT84GR7MMR4A-H9	FBGA(78ball)	4	30mm	Q4'11
				1066-777	HMT84GR7MMR4A-G7	FBGA(78ball)	4	30mm	Q4'11
	16GB	2Gx72	1Gx4	1333-999	HMT42GR7MFR4A-H9	FBGA(78ball)	2	30mm	Q3'11
					HMT42GR7MFR4A-G7	FBGA(78ball)	2	30mm	Q3'11
				1066-777	HMT42GR7BMR4A-H9	FBGA(82ball)	4	30mm	Now
					HMT42GR7BMR4A-G7	FBGA(82ball)	4	30mm	Now
	8GB	1Gx72	512Mx4	1333-999	HMT31GR7BFR4A-H9	FBGA(82ball)	2	30mm	Now
					HMT31GR7CFR4A-H9	FBGA(78ball)	2	30mm	Q3'11
				1066-777	HMT31GR7BFR4A-G7	FBGA(82ball)	2	30mm	Now
					HMT31GR7CFR4A-G7	FBGA(78ball)	2	30mm	Q3'11
			256Mx8	1333-999	HMT31GR7BFR8A-H9	FBGA(82ball)	4	30mm	Now
					HMT31GR7CFR8A-H9	FBGA(78ball)	4	30mm	Q3'11
				1066-777	HMT31GR7BFR8A-G7	FBGA(82ball)	4	30mm	Now
					HMT31GR7CFR8A-G7	FBGA(78ball)	4	30mm	Q3'11
	4GB	512Mx72	512Mx4	1333-999	HMT351R7BFR8A-H9	FBGA(82ball)	2	30mm	Now
					HMT351R7CFR8A-H9	FBGA(78ball)	2	30mm	Q3'11
				1066-777	HMT351R7BFR8A-G7	FBGA(82ball)	2	30mm	Now
			HMT351R7CFR8A-G7		FBGA(78ball)	2	30mm	Q3'11	
			256Mx8	1333-999	HMT351R7BFR8A-H9	FBGA(82ball)	2	30mm	Now
					HMT351R7CFR8A-H9	FBGA(78ball)	2	30mm	Q3'11
		1066-777		HMT351R7BFR8A-G7	FBGA(82ball)	2	30mm	Now	
			HMT351R7CFR8A-G7	FBGA(78ball)	2	30mm	Q3'11		
		256Mx4	1333-999	HMT151R7TFR4A-H9	FBGA(78ball)	2	30mm	Now	
				HMT151R7TFR4A-G7	FBGA(78ball)	2	30mm	Now	
			1066-777	HMT151R7TFR8A-H9	FBGA(78ball)	4	30mm	Now	
		HMT151R7TFR8A-G7		FBGA(78ball)	4	30mm	Now		
	2GB	256Mx72	256Mx8	1333-999	HMT325R7BFR8A-H9	FBGA(82ball)	1	30mm	Now
					HMT325R7CFR8A-H9	FBGA(78ball)	1	30mm	Q3'11
				1066-777	HMT325R7BFR8A-G7	FBGA(82ball)	1	30mm	Now
			HMT325R7CFR8A-G7		FBGA(78ball)	1	30mm	Q3'11	
			256Mx4	1333-999	HMT125R7TFR4A-H9	FBGA(78ball)	1	30mm	Now
					HMT125R7TFR4A-G7	FBGA(78ball)	1	30mm	Now
1066-777		HMT125R7TFR8A-H9	FBGA(78ball)	2	30mm	Now			
		HMT125R7TFR8A-G7	FBGA(78ball)	2	30mm	Now			
1GB		128Mx72	128Mx8	1333-999	HMT112R7TFR8A-H9	FBGA(78ball)	1	30mm	Now
				1066-777	HMT112R7TFR8A-G7	FBGA(78ball)	1	30mm	Now



# Computing Memory

## DDR3 SDRAM : Module – VLP RDIMM

VDD	MODULE		BASED COM.	SPEED	PART NUMBER	COMPONENT PKG.	#OF RANK	HEIGHT	AVAIL.		
	DENSITY	ORG.									
1.5V	16GB	2Gx72	2Gx4 (DDP)	1600-111111	HMT82GV7MMR4C-PB	FBGA(78ball)	2	18.75mm	Q4 '11		
				1333-999	HMT82GV7MMR4C-H9	FBGA(78ball)	2	18.75mm	Q4 '11		
				1066-777	HMT82GV7MMR4C-G7	FBGA(78ball)	2	18.75mm	Q4 '11		
	8GB	1Gx72	1Gx4 (DDP)	1600-111111	HMT41GV7BMR4C-PB	FBGA(82ball)	2	18.75mm	Now		
				1333-999	HMT41GV7BMR4C-H9	FBGA(82ball)	2	18.75mm	Now		
				1066-777	HMT41GV7BMR4C-G7	FBGA(82ball)	2	18.75mm	Now		
			512Mx8 (DDP)	1333-999	HMT41GV7BMR8C-H9	FBGA(82ball)	4	18.75mm	Now		
				1066-777	HMT41GV7BMR8C-G7	FBGA(82ball)	4	18.75mm	Now		
	4GB	512Mx72	512Mx4	1600-111111	HMT351V7BFR4C-PB	FBGA(82ball)	1	18.75mm	Now		
					HMT351V7CFR4C-PB	FBGA(78ball)	1	18.75mm	Q3 '11		
					1333-999	HMT351V7BFR4C-H9	FBGA(82ball)	1	18.75mm	Now	
				1066-777	HMT351V7CFR4C-H9	FBGA(78ball)	1	18.75mm	Q3 '11		
					HMT351V7BFR4C-G7	FBGA(82ball)	1	18.75mm	Now		
					HMT351V7CFR4C-G7	FBGA(78ball)	1	18.75mm	Q3 '11		
				512Mx4 (DDP)	1333-999	HMT351V7TMR4C-H9	FBGA(78ball)	2	18.75mm	Now	
					1066-777	HMT351V7TMR4C-G7	FBGA(78ball)	2	18.75mm	Now	
256Mx8			1600-111111	HMT351V7BFR8C-PB	FBGA(82ball)	2	18.75mm	Now			
					HMT351V7CFR8C-PB	FBGA(78ball)	2	18.75mm	Q3 '11		
				1333-999	HMT351V7BFR8C-H9	FBGA(82ball)	2	18.75mm	Now		
			1066-777	HMT351V7CFR8C-H9	FBGA(78ball)	2	18.75mm	Q3 '11			
				HMT351V7BFR8C-G7	FBGA(82ball)	2	18.75mm	Now			
				HMT351V7CFR8C-G7	FBGA(78ball)	2	18.75mm	Q3 '11			
			2GB	256Mx72	256Mx4	1333-999	HMT125V7TFR4C-H9	FBGA(78ball)	1	18.75mm	Now
						1066-777	HMT125V7TFR4C-G7	FBGA(78ball)	1	18.75mm	Now
					128Mx8	1333-999	HMT125V7TFR8C-H9	FBGA(78ball)	2	18.75mm	Now
1066-777	HMT125V7TFR8C-G7	FBGA(78ball)				2	18.75mm	Now			
256Mx8	1600-111111	HMT325V7BFR8C-PB			FBGA(82ball)	1	18.75mm	Now			
					HMT325V7CFR8C-PB	FBGA(78ball)	1	18.75mm	Q3 '11		
	1333-999	HMT325V7BFR8C-H9			FBGA(82ball)	1	18.75mm	Now			
					HMT325V7CFR8C-H9	FBGA(78ball)	1	18.75mm	Q3 '11		
	1066-777	HMT325V7BFR8C-G7			FBGA(82ball)	1	18.75mm	Now			
			HMT325V7CFR8C-G7	FBGA(78ball)	1	18.75mm	Q3 '11				
1GB	128Mx72	128Mx8	1333-999	HMT112V7TFR8C-H9	FBGA(78ball)	1	18.75mm	Now			
			1066-777	HMT112V7TFR8C-G7	FBGA(78ball)	1	18.75mm	Now			

# Computing Memory

## DDR3 SDRAM : Module – VLP RDIMM

VDD	MODULE		BASED COM.	SPEED	PART NUMBER	COMPONENT PKG.	#OF RANK	HEIGHT	AVAIL.	
	DENSITY	ORG.								
1.35V	16GB	2Gx72	2Gx4 (DDP)	1333-999	HMT82GV7MMR4A-H9	FBGA(78ball)	2	18.75mm	Q4 '11	
				1066-777	HMT82GV7MMR4A-G7	FBGA(78ball)	2	18.75mm	Q4 '11	
	8GB	1Gx72	1Gx4 (DDP)	1333-999	HMT41GV7BMR4A-H9	FBGA(82ball)	2	18.75mm	Now	
				1066-777	HMT41GV7BMR4A-G7	FBGA(82ball)	2	18.75mm	Now	
			512Mx8 (DDP)	1333-999	HMT41GV7BMR8A-H9	FBGA(82ball)	4	18.75mm	Now	
				1066-777	HMT41GV7BMR8A-G7	FBGA(82ball)	4	18.75mm	Now	
	4GB	512Mx72	512Mx4	1333-999	HMT351V7BFR4C-H9	FBGA(82ball)	1	18.75mm	Now	
					HMT351V7CFR4C-H9	FBGA(78ball)	1	18.75mm	Q3 '11	
				1066-777	HMT351V7BFR4C-G7	FBGA(82ball)	1	18.75mm	Now	
					HMT351V7CFR4C-G7	FBGA(78ball)	1	18.75mm	Q3 '11	
			512Mx4 (DDP)	1333-999	HMT351V7TMR4A-H9	FBGA(78ball)	2	18.75mm	Now	
				1066-777	HMT351V7TMR4A-G7	FBGA(78ball)	2	18.75mm	Now	
			256Mx8	1333-999	HMT351V7BFR8A-H9	FBGA(82ball)	2	18.75mm	Now	
						HMT351V7CFR8A-H9	FBGA(78ball)	2	18.75mm	Q3 '11
					1066-777	HMT351V7BFR8A-G7	FBGA(82ball)	2	18.75mm	Now
						HMT351V7CFR8A-G7	FBGA(78ball)	2	18.75mm	Q3 '11
	2GB	256Mx72	256Mx4	1333-999	HMT125V7TFR4A-H9	FBGA(78ball)	1	18.75mm	Now	
					1066-777	HMT125V7TFR4A-G7	FBGA(78ball)	1	18.75mm	Now
			128Mx8	1333-999	HMT125V7TFR8A-H9	FBGA(78ball)	2	18.75mm	Now	
					1066-777	HMT125V7TFR8A-G7	FBGA(78ball)	2	18.75mm	Now
256Mx8			1333-999	HMT325V7BFR8A-H9	FBGA(82ball)	1	18.75mm	Now		
					HMT325V7CFR8A-H9	FBGA(78ball)	1	18.75mm	Q3 '11	
				1066-777	HMT325V7BFR8A-G7	FBGA(82ball)	1	18.75mm	Now	
					HMT325V7CFR8A-G7	FBGA(78ball)	1	18.75mm	Q3 '11	
1GB	128Mx72	128Mx8	1333-999	HMT112V7TFR8A-H9	FBGA(78ball)	1	18.75mm	Now		
				1066-777	HMT112V7TFR8A-G7	FBGA(78ball)	1	18.75mm	Now	

# Computing Memory

## DDR3 SDRAM : Module - LRDIMM

VDD	MODULE		BASED COM.	SPEED	PART NUMBER	PACKAGE	RANK	HEIGHT	Availability
	DENSITY	ORG.							
1.5V	32GB	4Gx72	2Gx4 (DDP)	1600-111111	HMT84GL7MMR4C-PB	FBGA(78ball)	4	30.35mm	Q4 '11
				1333-999	HMT84GL7MMR4C-H9	FBGA(78ball)	4	30.35mm	Q4 '11
	16GB	2Gx72	1Gx4 (DDP)	1600-111111	HMT42GL7BMR4C-PB	FBGA(82ball)	4	30.35mm	Q3 '11
				1333-999	HMT42GL7BMR4C-H9	FBGA(82ball)	4	30.35mm	Q3 '11
1.35V	32GB	4Gx72	2Gx4 (DDP)	1333-999	HMT84GL7MMR4A-H9	FBGA(78ball)	4	30.35mm	Q4 '11
	16GB	2Gx72	1Gx4 (DDP)	1333-999	HMT42GL7BMR4A-H9	FBGA(82ball)	4	30.35mm	Q3 '11

# Computing Memory

## DDR3 SDRAM : Module - SODIMM

VDD	MODULE		BASED COM.	SPEED	PART NUMBER	COMPONENT PKG.	#OF RANK	HEIGHT	AVAIL.	
	DENSITY	ORG.								
1.5V	8GB	1Gx64	512Mx8	1600-111111	HMT41GS6MFR8C-PB	FBGA(78ball)	2	30mm	Q3'11	
				1333-999	HMT41GS6MFR8C-H9	FBGA(78ball)	2	30mm	Q3'11	
				1066-777	HMT41GS6MFR8C-G7	FBGA(78ball)	2	30mm	Q3'11	
	4GB	512Mx64	256Mx8	1600-111111	HMT351S6BFR8C-PB	FBGA(82ball)	2	30mm	Now	
					HMT351S6CFR8C-PB	FBGA(78ball)	2	30mm	Now	
				1333--999	HMT351S6BFR8C-H9	FBGA(82ball)	2	30mm	Now	
					HMT351S6CFR8C-H9	FBGA(78ball)	2	30mm	Now	
				1066-777	HMT351S6BFR8C-G7	FBGA(82ball)	2	30mm	Now	
					HMT351S6CFR8C-G7	FBGA(78ball)	2	30mm	Now	
	2GB	256Mx64	128Mx8	1333-999	HMT125S6BFR8C-H9	FBGA(78ball)	2	30mm	EOL	
					HMT125S6TFR8C-H9	FBGA(78ball)	2	30mm	Now	
				1066-777	HMT125S6BFR8C-G7	FBGA(78ball)	2	30mm	EOL	
					HMT125S6TFR8C-G7	FBGA(78ball)	2	30mm	Now	
				800-666	HMT125S6BFR8C-S6	FBGA(78ball)	2	30mm	EOL	
					HMT125S6TFR8C-S6	FBGA(78ball)	2	30mm	Now	
			256Mx8	1600-111111	HMT325S6BFR8C-PB	FBGA(82ball)	1	30mm	Now	
					HMT325S6CFR8C-PB	FBGA(78ball)	1	30mm	Now	
				1333-999	HMT325S6BFR8C-H9	FBGA(82ball)	1	30mm	Now	
					HMT325S6CFR8C-H9	FBGA(78ball)	1	30mm	Now	
				1066-777	HMT325S6BFR8C-G7	FBGA(82ball)	1	30mm	Now	
					HMT325S6CFR8C-G7	FBGA(78ball)	1	30mm	Now	
128Mx16			1333-999	HMT325S6BFR6C-H9	FBGA(96ball)	2	30mm	Now		
				HMT325S6BFR6C-G7	FBGA(96ball)	2	30mm	Now		
			1066-777	HMT325S6BFR6C-G7	FBGA(96ball)	2	30mm	Now		
1GB	128Mx64	128Mx8	1333-999	HMT112S6TFR8C-H9	FBGA(78ball)	1	30mm	Now		
			1066-777	HMT112S6TFP8C-G7	FBGA(78ball)	1	30mm	Now		
			800-666	HMT112S6TFP8C-S6	FBGA(78ball)	1	30mm	Now		
	128Mx64	64Mx16	1333-999	HMT112S6BFR6C-H9	FBGA(96ball)	2	30mm	EOL		
			1066-777	HMT112S6BFR6C-G7	FBGA(96ball)	2	30mm	EOL		
			800-666	HMT112S6BFR6C-S6	FBGA(96ball)	2	30mm	EOL		
	128Mx16	1333-999	HMT312S6BFR6C-H9	FBGA(96ball)	1	30mm	Now			
			1066-777	HMT312S6BFR6C-G7	FBGA(96ball)	1	30mm	Now		
			1066-777	HMT312S6BFR6C-G7	FBGA(96ball)	1	30mm	Now		
1.35V	4GB	512Mx64	256Mx8	1333--999	HMT351S6BFR8A-H9	FBGA(82ball)	2	30mm	Now	
					HMT351S6CFR8A-H9	FBGA(78ball)	2	30mm	Q3'11	
				1066-777	HMT351S6BFR8A-G7	FBGA(82ball)	2	30mm	Now	
					HMT351S6CFR8A-G7	FBGA(78ball)	2	30mm	Q3'11	
	2GB	256Mx64	256Mx8	1333-999	HMT325S6BFR8A-H9	FBGA(82ball)	1	30mm	Now	
					HMT325S6CFR8A-H9	FBGA(78ball)	1	30mm	Q3'11	
				1066-777	HMT325S6BFR8A-G7	FBGA(82ball)	1	30mm	Now	
					HMT325S6CFR8A-G7	FBGA(78ball)	1	30mm	Q3'11	
				128Mx16	1333-999	HMT325S6DFR6A-H9	FBGA(96ball)	2	30mm	4Q'11
						HMT325S6DFR6A-G7	FBGA(96ball)	2	30mm	4Q'11
	1GB	128Mx64	128Mx16	1333-999	HMT312S6DFR6A-H9	FBGA(96ball)	1	30mm	4Q'11	
				1066-777	HMT312S6DFR6A-G7	FBGA(96ball)	1	30mm	4Q'11	

# Computing Memory

## DDR2 SDRAM : Module - UBDIMM

VDD	MODULE		BASED COM.	SPEED	PART NUMBER	COMPONENT PKG.	#OF RANK	HEIGHT	AVAIL.		
	DENSITY	ORG.									
1.8V	4GB	512Mx64	256Mx8	DDR2 800-666	HMP351U6AFR8C-S6	FBGA(60ball)	2	30mm	Now		
				DDR2 667-555	HMP351U6AFR8C-Y5	FBGA(60ball)	2	30mm	Now		
		512Mx72	256Mx8	DDR2 800-666	HMP351U7AFR8C-S6	FBGA(60ball)	2	30mm	EOL		
				DDR2 667-555	HMP351U7AFR8C-Y5	FBGA(60ball)	2	30mm	EOL		
	2GB	256Mx64	128Mx8	DDR2 800-555	HYMP125U64CP8-S5	FBGA(60ball)	2	30mm	EOL: Q3'11		
					HMP125U6EFR8C-S5	FBGA(60ball)	2	30mm	Now		
				DDR2 667-555	HYMP125U64CP8-Y5	FBGA(60ball)	2	30mm	EOL: Q3'11		
					HMP125U6EFR8C-Y5	FBGA(60ball)	2	30mm	Now		
				DDR2 533-444	HYMP125U64CP8-C4	FBGA(60ball)	2	30mm	EOL: Q3'11		
					HMP125U6EFR8C-C4	FBGA(60ball)	2	30mm	Now		
				256Mx72	128Mx8	DDR2 800-555	HYMP125U72CP8-S5	FBGA(60ball)	2	30mm	EOL
						DDR2 667-555	HYMP125U72CP8- Y5	FBGA(60ball)	2	30mm	EOL
	1GB	128Mx64	128Mx8	DDR2 800-555	HYMP112U64CP8-S5	FBGA(60ball)	1	30mm	EOL: Q3'11		
					HMP112U6EFR8C-S5	FBGA(60ball)	1	30mm	Now		
DDR2 667-555				HYMP112U64CP8-Y5	FBGA(60ball)	1	30mm	EOL: Q3'11			
				HMP112U6EFR8C-Y5	FBGA(60ball)	1	30mm	Now			
DDR2 533-444				HYMP112U64CP8-C4	FBGA(60ball)	1	30mm	EOL: Q3'11			
				HMP112U6EFR8C-C4	FBGA(60ball)	1	30mm	Now			
128Mx72				128Mx8	DDR2 800-555	HYMP112U72CP8-S5	FBGA(60ball)	1	30mm	EOL	
					DDR2 667-555	HYMP112U72CP8-Y5	FBGA(60ball)	1	30mm	EOL	

# Computing Memory

## DDR2 SDRAM : Module - RDIMM

VDD	MODULE		BASED COM.	SPEED	PART NUMBER	COMPONENT PKG.	#OF RANK	HEIGHT	AVAIL.
	DENSITY	ORG.							
1.8V	8GB	1Gx72	512Mx4	DDR2 800-666	HMP31GP7AFR4C-S6	FBGA(60ball)	2	30mm	EOL
				DDR2 667-555	HMP31GP7AFR4C-Y5	FBGA(60ball)	2	30mm	EOL
	4GB	512Mx72	256Mx4	DDR2 800-555	HYMP151P72CP4-S5	FBGA(60ball)	2	30mm	EOL
				DDR2 667-555	HYMP151P72CP4-Y5	FBGA(60ball)	2	30mm	EOL
	2GB	256Mx72	128MX8	DDR2 800-555	HYMP125P72CP8-S5	FBGA(60ball)	2	30mm	EOL
				DDR2 667-555	HYMP125P72CP8-Y5	FBGA(60ball)	2	30mm	EOL
			256MX4	DDR2 800-555	HYMP125P72CP4-S5	FBGA(60ball)	1	30mm	EOL
				DDR2 667-555	HYMP125P72CP4-Y5	FBGA(60ball)	1	30mm	EOL
	1GB	128Mx72	128Mx8	DDR2 667-555	HYMP112P72CP8-Y5	FBGA(60ball)	1	30mm	EOL

# Computing Memory

## DDR2 SDRAM : Module – VLP RDIMM

VDD	MODULE		BASED COM.	SPEED	PART NUMBER	COMPONENT PKG.	#OF RANK	HEIGHT	AVAIL.
	DENSITY	ORG.							
1.8V	4GB	512Mx72	256x4(DDP)	DDR2 667-555	HYMP351P72CMP4L-Y5	FBGA(63ball)	2	18.3mm	EOL
	2GB	256Mx72	256MX4	DDR2 800-555	HYMP125P72CP4L-S5	FBGA(60ball)	2	18.3mm	EOL
				DDR2 667-555	HYMP125P72CP4L-Y5	FBGA(60ball)	2	18.3mm	EOL
	1GB	128Mx72	128Mx8	DDR2 800-555	HYMP112P72CP8L-S5	FBGA(60ball)	1	18.3mm	EOL
				DDR2 667-555	HYMP112P72CP8L-Y5	FBGA(60ball)	1	18.3mm	EOL

# Computing Memory

## DDR2 SDRAM : Module - FBDIMM

VDD	MODULE		BASED COM.	SPEED	PART NUMBER	COMPONENT PKG.	#OF RANK	HEIGHT	AVAIL.	
	DENSITY	ORG.								
1.8V	8GB	1Gx72	512Mx4	DDR2 800-666	HMP31GF7AFR4C-S6xx	FBGA(60ball)	2	30.35mm	EOL	
				DDR2 667-555	HMP31GF7AFR4C-Y5xx	FBGA(60ball)	2	30.35mm	EOL	
	4GB	512Mx72	256Mx4	DDR2 800-555	HYMP151F72CP4xx-S5	FBGA(60ball)	2	30.35mm	EOL	
				DDR2 667-555	HYMP151F72CP4xx-Y5	FBGA(60ball)	2	30.35mm	EOL	
				128Mx8	DDR2 800-555	HYMP151F72CP8xx-S5	FBGA(60ball)	4	30.35mm	EOL
					DDR2 667-555	HYMP151F72CP8xx-Y5	FBGA(60ball)	4	30.35mm	EOL
	2GB	256Mx72	128MX8	DDR2 800-555	HYMP125F72CP8xx-S5	FBGA(60ball)	2	30.35mm	EOL	
				DDR2 667-555	HYMP125F72CP8xx-Y5	FBGA(60ball)	2	30.35mm	EOL	
1GB	128Mx72	128Mx8	DDR2 800-555	HYMP112F72CP8xx-S5	FBGA(60ball)	1	30.35mm	EOL		
			DDR2 667-555	HYMP112F72CP8xx-Y5	FBGA(60ball)	1	30.35mm	EOL		
1.55V	8GB	1Gx72	512Mx4	DDR2 667-555	HMP31GL7AFR4C-Y5xx	FBGA(60ball)	2	30.35mm	EOL	
	4GB	512Mx72	256Mx4	DDR2 667-555	HYMP151L72CP4xx-Y5	FBGA(60ball)	2	30.35mm	EOL	
	2GB	256Mx72	128MX8	DDR2 667-555	HYMP125L72CP8xx-Y5	FBGA(60ball)	2	30.35mm	EOL	
	1GB	128Mx72	128Mx8	DDR2 667-555	HYMP112L72CP8xx-Y5	FBGA(60ball)	1	30.35mm	EOL	

FBD P/N xx : (AMB vender)(Revision)

AMB vender N: intel, D: IDT, E NEC



# Computing Memory

## DDR2 SDRAM : Module - SODIMM

VDD	MODULE		BASED COM.	SPEED	PART NUMBER	COMPONENT PKG.	#OF RANK	HEIGHT	AVAIL.
	DENSITY	ORG.							
1.8V	4GB	512Mx64	256Mx8	DDR2 800-666	HMP351S6AFR8C-S6	FBGA(60ball)	2	30mm	Now
				DDR2 667-555	HMP351S6AFR8C-Y5	FBGA(60ball)	2	30mm	Now
				DDR2 533-444	HMP351S6AFR8C-C4	FBGA(60ball)	2	30mm	Now
	2GB	256Mx64	128Mx8	DDR2 800-555	HYMP125S64CP8-S5	FBGA(60ball)	2	30mm	EOL: Q3'11
					HMP125S6EFR8C-S5	FBGA(60ball)	2	30mm	Now
				DDR2 667-555	HYMP125S64CP8-Y5	FBGA(60ball)	2	30mm	EOL: Q3'11
					HMP125S6EFR8C-Y5	FBGA(60ball)	2	30mm	Now
				DDR2 533-444	HYMP125S64CP8-C4	FBGA(60ball)	2	30mm	EOL: Q3'11
					HMP125S6EFR8C-C4	FBGA(60ball)	2	30mm	Now
	1GB	128Mx64	64Mx16	DDR2 800-555	HYMP112S64CP6-S5	FBGA(84ball)	2	30mm	EOL: Q3'11
					HMP112S6EFR6C-S5	FBGA(84ball)	2	30mm	Now
				DDR2 667-555	HYMP112S64CP6-Y5	FBGA(84ball)	2	30mm	EOL: Q3'11
					HMP112S6EFR6C-Y5	FBGA(84ball)	2	30mm	Now
				DDR2 533-444	HYMP112S64CP6-C4	FBGA(84ball)	2	30mm	EOL: Q3'11
					HMP112S6EFR6C-C4	FBGA(84ball)	2	30mm	Now



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