

# Q4' 2010 DATABOOK

Rev 0.0

Green Environment   
We protect the environment  
with our products **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	Now		
				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	Now		
				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	Now	
					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	Now		
				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	Now		
			DDR3 1066	H5TQ1G63BFR-G7C	FBGA(96ball)	8Bank, 1.5V, CL7,7-7-7	Now		
		2Gb	512Mx4	DDR3 1600	H5TQ2G43BFR-PBC	H5TQ2G43BFR-PBC	FBGA(82ball)	8Bank, 1.5V, CL11,11-11-11	Now
						H5TQ2G43CFR-PBC	FBGA(78ball)	8Bank, 1.5V, CL11,11-11-11	Jan '11
	DDR3 1333				H5TQ2G43BFR-H9C	H5TQ2G43BFR-H9C	FBGA(82ball)	8Bank, 1.5V, CL9,9-9-9	Now
						H5TQ2G43CFR-H9C	FBGA(78ball)	8Bank, 1.5V, CL9,9-9-9	Jan '11
	DDR3 1066				H5TQ2G43BFR-G7C	H5TQ2G43BFR-G7C	FBGA(82ball)	8Bank, 1.5V, CL7,7-7-7	Now
						H5TQ2G43CFR-G7C	FBGA(78ball)	8Bank, 1.5V, CL7,7-7-7	Jan '11
	256Mx8			DDR3 1600	H5TQ2G83BFR-PBC	H5TQ2G83BFR-PBC	FBGA(82ball)	8Bank, 1.5V, CL11,11-11-11	Now
						H5TQ2G83CFR-PBC	FBGA(78ball)	8Bank, 1.5V, CL11,11-11-11	Jan '11
				DDR3 1333	H5TQ2G83BFR-H9C	H5TQ2G83BFR-H9C	FBGA(82ball)	8Bank, 1.5V, CL9,9-9-9	Now
						H5TQ2G83CFR-H9C	FBGA(78ball)	8Bank, 1.5V, CL9,9-9-9	Jan '11
				DDR3 1066	H5TQ2G83BFR-G7C	H5TQ2G83BFR-G7C	FBGA(82ball)	8Bank, 1.5V, CL7,7-7-7	Now
						H5TQ2G83CFR-G7C	FBGA(78ball)	8Bank, 1.5V, CL7,7-7-7	Jan '11
	128Mx16		DDR3 1600	H5TQ2G63BFR-PBC	H5TQ2G63BFR-PBC	FBGA(96ball)	8Bank, 1.5V, CL11,11-11-11	Now	
					H5TQ2G63DFR-PBC	FBGA(96ball)	8Bank, 1.5V, CL11,11-11-11	Jul'11	
DDR3 1333			H5TQ2G63BFR-H9C	H5TQ2G63BFR-H9C	FBGA(96ball)	8Bank, 1.5V, CL9,9-9-9	Now		
				H5TQ2G63DFR-H9C	FBGA(96ball)	8Bank, 1.5V, CL9,9-9-9	Jul'11		
DDR3 1066			H5TQ2G63BFR-G7C	H5TQ2G63BFR-G7C	FBGA(96ball)	8Bank, 1.5V, CL7,7-7-7	Now		
				H5TQ2G63DFR-G7C	FBGA(96ball)	8Bank, 1.5V, CL7,7-7-7	Jul'11		
4Gb	1Gx4		DDR3 1600	H5TQ4G43MFR-PBC	H5TQ4G43MFR-PBC	FBGA(78ball)	8Bank, 1.5V, CL11,11-11-11	May'11	
					H5TQ4G43MFR-H9C	FBGA(78ball)	8Bank, 1.5V, CL9,9-9-9	May'11	
				DDR3 1333	H5TQ4G43MFR-G7C	H5TQ4G43MFR-G7C	FBGA(78ball)	8Bank, 1.5V, CL7,7-7-7	May'11
						H5TQ4G43BMR-PBC	FBGA(82ball)	8Bank, 1.5V, CL11,11-11-11	Aug '10
				DDR3 1066	H5TQ4G43BMR-H9C	H5TQ4G43BMR-H9C	FBGA(82ball)	8Bank, 1.5V, CL9,9-9-9	Aug '10
						H5TQ4G43CMR-H9C	FBGA(78ball)	8Bank, 1.5V, CL9,9-9-9	Jul '11
		DDR3 1066	H5TQ4G43BMR-G7C	H5TQ4G43BMR-G7C	FBGA(82ball)	8Bank, 1.5V, CL7,7-7-7	Aug '10		
				H5TQ4G43CMR-G7C	FBGA(78ball)	8Bank, 1.5V, CL7,7-7-7	Jul '11		
		512Mx8	DDR3 1600	H5TQ4G83MFR-PBC	H5TQ4G83MFR-PBC	FBGA(78ball)	8Bank, 1.5V, CL11,11-11-11	May'11	
					H5TQ4G83MFR-H9C	FBGA(78ball)	8Bank, 1.5V, CL9,9-9-9	May'11	
			DDR3 1333	H5TQ4G83MFR-G7C	H5TQ4G83MFR-G7C	FBGA(78ball)	8Bank, 1.5V, CL7,7-7-7	May'11	
					H5TQ4G83BMR-PBC	FBGA(82ball)	8Bank, 1.5V, CL11,11-11-11	Aug '10	
	DDR3 1066		H5TQ4G83BMR-H9C	H5TQ4G83BMR-H9C	FBGA(82ball)	8Bank, 1.5V, CL9,9-9-9	Aug '10		
				H5TQ4G83CMR-H9C	FBGA(78ball)	8Bank, 1.5V, CL9,9-9-9	Jul '11		
	DDR3 1066	H5TQ4G83BMR-G7C	H5TQ4G83BMR-G7C	FBGA(82ball)	8Bank, 1.5V, CL7,7-7-7	Aug '10			
			H5TQ4G83CMR-G7C	FBGA(78ball)	8Bank, 1.5V, CL7,7-7-7	Jul '11			
	8Gb	2Gx4 (DDP)	DDR3 1600	H5TQ8G43MMR-PBC	FBGA(78ball)	8Bank, 1.5V, CL11,11-11-11	Sep'11		
			DDR3 1333	H5TQ8G43MMR-H9C	FBGA(78ball)	8Bank, 1.5V, CL9,9-9-9	Sep'11		
			DDR3 1066	H5TQ8G43MMR-G7C	FBGA(78ball)	8Bank, 1.5V, CL7,7-7-7	Sep'11		
		1Gx8 (DDP)	DDR3 1600	H5TQ8G83MMR-PBC	FBGA(78ball)	8Bank, 1.5V, CL11,11-11-11	Sep'11		
			DDR3 1333	H5TQ8G83MMR-H9C	FBGA(78ball)	8Bank, 1.5V, CL9,9-9-9	Sep'11		
			DDR3 1066	H5TQ8G83MMR-G7C	FBGA(78ball)	8Bank, 1.5V, CL7,7-7-7	Sep'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	Jan '11	
			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	Jan '11	
			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	Jan '11	
			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	Jan '11
				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	Jan '11
		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	Jan '11	
		128Mx16	DDR3 1333	H5TC2G63DFR-H9A	FBGA(96ball)	8Bank, 1.35V, CL9,9-9-9	Sep'11	
				H5TC2G63DFR-G7A	FBGA(96ball)	8Bank, 1.35V, CL7,7-7-7	Sep'11	
			DDR3 1066	H5TC2G63DFR-H9A	FBGA(96ball)	8Bank, 1.35V, CL9,9-9-9	Sep'11	
				H5TC2G63DFR-G7A	FBGA(96ball)	8Bank, 1.35V, CL7,7-7-7	Sep'11	
		4Gb	1Gx4	DDR3 1333	H5TC4G43MFR-H9A	FBGA(78ball)	8Bank, 1.35V, CL9,9-9-9	May'11
				DDR3 1066	H5TC4G43MFR-G7A	FBGA(78ball)	8Bank, 1.35V, CL7,7-7-7	May'11
			1Gx4 (DDP)	DDR3 1600	H5TC4G43CMR-PBA	FBGA(78ball)	8Bank, 1.35V, CL11,11-11-11	Jul '11
					H5TC4G43BMR-H9A	FBGA(82ball)	8Bank, 1.35V, CL9,9-9-9	Aug '10
	DDR3 1333			H5TC4G43CMR-H9A	FBGA(78ball)	8Bank, 1.35V, CL9,9-9-9	Jul '11	
				H5TC4G43BMR-G7A	FBGA(82ball)	8Bank, 1.35V, CL7,7-7-7	Aug '10	
	DDR3 1066		H5TC4G43CMR-G7A	FBGA(78ball)	8Bank, 1.35V, CL7,7-7-7	Jul '11		
			H5TC4G43BMR-G7A	FBGA(82ball)	8Bank, 1.35V, CL7,7-7-7	Jul '11		
	512Mx8		DDR3 1333	H5TC4G83MFR-H9A	FBGA(78ball)	8Bank, 1.35V, CL9,9-9-9	May'11	
			DDR3 1066	H5TC4G83MFR-G7A	FBGA(78ball)	8Bank, 1.35V, CL7,7-7-7	May'11	
	512Mx8 (DDP)		DDR3 1600	H5TC4G83CMR-PBA	FBGA(78ball)	8Bank, 1.35V, CL11,11-11-11	Jul '11	
				H5TC4G83BMR-H9A	FBGA(82ball)	8Bank, 1.35V, CL9,9-9-9	Aug '10	
DDR3 1333			H5TC4G83CMR-H9A	FBGA(78ball)	8Bank, 1.35V, CL9,9-9-9	Jul '11		
			H5TC4G83BMR-G7A	FBGA(82ball)	8Bank, 1.35V, CL7,7-7-7	Aug '10		
DDR3 1066			H5TC4G83CMR-G7A	FBGA(78ball)	8Bank, 1.35V, CL7,7-7-7	Jul '11		
			H5TC4G83BMR-G7A	FBGA(82ball)	8Bank, 1.35V, CL7,7-7-7	Jul '11		
8Gb	2Gx4 (DDP)		DDR3 1333	H5TC8G43MMR-H9C	FBGA(78ball)	8Bank, 1.35V, CL9,9-9-9	Sep'11	
			DDR3 1066	H5TC8G43MMR-G7A	FBGA(78ball)	8Bank, 1.35V, CL7,7-7-7	Sep'11	
	1Gx8 (DDP)	DDR3 1333	H5TC8G83MMR-H9A	FBGA(78ball)	8Bank, 1.35V, CL9,9-9-9	Sep'11		
		DDR3 1066	H5TC8G83MMR-G7A	FBGA(78ball)	8Bank, 1.35V, CL7,7-7-7	Sep'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	Now	
			DDR2 667	H5PS2G43AFR-Y5C	FBGA(60ball)	8Bank, 1.8V, CL5,5-5-5	Now	
		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	Now	
				H5PS1G43EFR-S5C	FBGA(60ball)	8Bank, 1.8V, CL5,5-5-5	Now	
			DDR2 667	HY5PS1G431CFP-Y5	FBGA(60ball)	8Bank, 1.8V, CL5,5-5-5	Now	
				H5PS1G43EFR-Y5C	FBGA(60ball)	8Bank, 1.8V, CL5,5-5-5	Now	
			DDR2 533	HY5PS1G431CFP-C4	FBGA(60ball)	8Bank, 1.8V, CL4,4-4-4	Now	
				H5PS1G43EFR-C4C	FBGA(60ball)	8Bank, 1.8V, CL4,4-4-4	Now	
			DDR2 400	HY5PS1G431CFP-E3	FBGA(60ball)	8Bank, 1.8V, CL3,3-3-3	Now	
			128Mx8	DDR2 800	HY5PS1G831CFP-S5	FBGA(60ball)	8Bank, 1.8V, CL5,5-5-5	Now
					H5PS1G83EFR-S5C	FBGA(60ball)	8Bank, 1.8V, CL5,5-5-5	Now
					H5PS1G83NFR-S5C	FBGA(60ball)	8Bank, 1.8V, CL5,5-5-5	Now
				DDR2 667	HY5PS1G831CFP-Y5	FBGA(60ball)	8Bank, 1.8V, CL5,5-5-5	Now
					H5PS1G83EFR-Y5C	FBGA(60ball)	8Bank, 1.8V, CL5,5-5-5	Now
		H5PS1G83NFR-Y5C			FBGA(60ball)	8Bank, 1.8V, CL5,5-5-5	Now	
		DDR2 533		HY5PS1G831CFP-C4	FBGA(60ball)	8Bank, 1.8V, CL4,4-4-4	Now	
				H5PS1G43EFR-C4C	FBGA(60ball)	8Bank, 1.8V, CL4,4-4-4	Now	
				H5PS1G43NFR-C4C	FBGA(60ball)	8Bank, 1.8V, CL4,4-4-4	Now	
		DDR2 400		HY5PS1G831CFP-E3	FBGA(60ball)	8Bank, 1.8V, CL3,3-3-3	Now	
		64Mx16		DDR2 800	HY5PS1G1631CFP-S5	FBGA(84ball)	8Bank, 1.8V, CL5,5-5-5	Now
					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	Now	
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	Now		
DDR2 400			HY5PS1G1631CFP-E3	FBGA(84ball)	8Bank, 1.8V, CL5,3-3-3	Now		



# 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	Mar '11		
				1333-999	HMT41GU6MFR8C-H9	FBGA(78ball)	2	30mm	Mar '11		
				1066-777	HMT41GU6MFR8C-G7	FBGA(78ball)	2	30mm	Mar '11		
		1Gx72		512Mx8	1600-111111	HMT41GU7MFR8C-PB	FBGA(78ball)	2	30mm	Mar '11	
					1333-999	HMT41GU7MFR8C-H9	FBGA(78ball)	2	30mm	Mar '11	
					1066-777	HMT41GU7MFR8C-G7	FBGA(78ball)	2	30mm	Mar '11	
	4GB	512Mx64	256Mx8		1600-111111	HMT351U6BFR8C-PB	FBGA(82ball)	2	30mm	Now	
					1333-999	HMT351U6CFR8C-PB	FBGA(78ball)	2	30mm	Jan '11	
					1333-999	HMT351U6BFR8C-H9	FBGA(82ball)	2	30mm	Now	
				1333-999	HMT351U6CFR8C-H9	FBGA(78ball)	2	30mm	Jan '11		
				1066-777	HMT351U6BFR8C-G7	FBGA(82ball)	2	30mm	Now		
				1066-777	HMT351U7CFR8C-PB	FBGA(78ball)	2	30mm	Jan '11		
	2GB	256Mx64	128Mx8	128Mx8	1333-999	HMT125U6BFR8C-H9	FBGA(78ball)	2	30mm	Now	
					1333-999	HMT125U6TFR8C-H9	FBGA(78ball)	2	30mm	Now	
					1066-777	HMT125U6BFR8C-G7	FBGA(78ball)	2	30mm	Now	
					1066-777	HMT125U6TFR8C-G7	FBGA(78ball)	2	30mm	Now	
					800-666	HMT125U6BFR8C-S6	FBGA(78ball)	2	30mm	Now	
					800-666	HMT125U6TFR8C-S6	FBGA(78ball)	2	30mm	Now	
			256Mx8	1600-111111	256Mx8	1600-111111	HMT325U6BFR8C-PB	FBGA(82ball)	1	30mm	Now
						1333-999	HMT325U6CFR8C-PB	FBGA(78ball)	1	30mm	Jan '11
						1333-999	HMT325U6BFR8C-H9	FBGA(82ball)	1	30mm	Now
						1333-999	HMT325U6CFR8C-H9	FBGA(78ball)	1	30mm	Jan '11
						1066-777	HMT325U6BFR8C-G7	FBGA(82ball)	1	30mm	Now
						1066-777	HMT325U7CFR8C-PB	FBGA(78ball)	1	30mm	Jan '11
	256Mx72	128Mx8	128Mx8	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	
					1600-111111	HMT325U7CFR8C-PB	FBGA(78ball)	1	30mm	Jan '11	
					1333-999	HMT325U7BFR8C-H9	FBGA(82ball)	1	30mm	Now	
					1333-999	HMT325U7CFR8C-H9	FBGA(78ball)	1	30mm	Jan '11	
256Mx8			1600-111111	256Mx8	1600-111111	HMT325U7BFR8C-G7	FBGA(82ball)	1	30mm	Now	
					1333-999	HMT325U7CFR8C-PB	FBGA(78ball)	1	30mm	Jan '11	
					1333-999	HMT325U7BFR8C-H9	FBGA(82ball)	1	30mm	Now	
					1066-777	HMT325U7CFR8C-H9	FBGA(78ball)	1	30mm	Jan '11	
					1066-777	HMT325U7BFR8C-G7	FBGA(82ball)	1	30mm	Now	
					1066-777	HMT325U7CFR8C-PB	FBGA(78ball)	1	30mm	Jan '11	
1GB	128Mx64	128Mx8	128Mx8	1333-999	HMT112U6BFR8C-H9	FBGA(78ball)	1	30mm	Now		
				1333-999	HMT112U6TFR8C-H9	FBGA(78ball)	1	30mm	Now		
				1066-777	HMT112U6BFR8C-G7	FBGA(78ball)	1	30mm	Now		
				1066-777	HMT112U6TFR8C-G7	FBGA(78ball)	1	30mm	Now		
				800-666	HMT112U6BFR8C-S6	FBGA(78ball)	1	30mm	Now		
				800-666	HMT112U6TFR8C-S6	FBGA(78ball)	1	30mm	Now		
		128Mx72	128Mx8	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	
					1333-999	HMT112U7CFR8C-PB	FBGA(78ball)	1	30mm	Jan '11	
					1066-777	HMT112U7BFR8C-H9	FBGA(82ball)	1	30mm	Now	
					1066-777	HMT112U7CFR8C-H9	FBGA(78ball)	1	30mm	Jan '11	
1.35V	8GB	1Gx64	512Mx8	1333-999	HMT41GU6MFR8A-H9	FBGA(78ball)	2	30mm	Mar '11		
				1066-777	HMT41GU6MFR8A-G7	FBGA(78ball)	2	30mm	Mar '11		
				1066-777	HMT41GU7MFR8A-H9	FBGA(78ball)	2	30mm	Mar '11		
		1Gx72		512Mx8	1333-999	HMT41GU7MFR8A-H9	FBGA(78ball)	2	30mm	Mar '11	
					1066-777	HMT41GU7MFR8A-G7	FBGA(78ball)	2	30mm	Mar '11	
					1066-777	HMT41GU7MFR8A-H9	FBGA(78ball)	2	30mm	Mar '11	
	4GB	512Mx72	256Mx8		1600-111111	HMT351U7CFR8A-PB	FBGA(78ball)	2	30mm	Jan '11	
					1333-999	HMT351U7BFR8A-H9	FBGA(82ball)	2	30mm	Now	
					1333-999	HMT351U7CFR8A-H9	FBGA(78ball)	2	30mm	Jan '11	
				1066-777	HMT351U7BFR8A-G7	FBGA(82ball)	2	30mm	Now		
				1066-777	HMT351U7CFR8A-PB	FBGA(78ball)	2	30mm	Jan '11		
				1066-777	HMT351U7BFR8A-H9	FBGA(82ball)	2	30mm	Now		
	2GB	256Mx72	256Mx8	256Mx8	1600-111111	HMT325U7CFR8A-PB	FBGA(78ball)	1	30mm	Jan '11	
					1333-999	HMT325U7BFR8A-H9	FBGA(82ball)	1	30mm	Now	
					1333-999	HMT325U7CFR8A-H9	FBGA(78ball)	1	30mm	Jan '11	
					1066-777	HMT325U7BFR8A-G7	FBGA(82ball)	1	30mm	Now	
					1066-777	HMT325U7CFR8A-PB	FBGA(78ball)	1	30mm	Jan '11	
					1066-777	HMT325U7BFR8A-H9	FBGA(82ball)	1	30mm	Now	
256Mx72			128Mx8	128Mx8	1333-999	HMT125U7TFR8A-H9	FBGA(78ball)	2	30mm	Now	
					1066-777	HMT125U7TFR8A-G7	FBGA(78ball)	2	30mm	Now	
					1066-777	HMT125U7CFR8A-PB	FBGA(78ball)	1	30mm	Jan '11	
					1333-999	HMT125U7BFR8A-H9	FBGA(82ball)	1	30mm	Now	
					1066-777	HMT125U7CFR8A-H9	FBGA(78ball)	1	30mm	Jan '11	
					1066-777	HMT125U7BFR8A-G7	FBGA(82ball)	1	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	Jul '11
				1066-777	HMT84GR7MMR4C-G7	FBGA(78ball)	4	30mm	Jul '11
	16GB	2Gx72	1Gx4	1600-111111	HMT42GR7MFR4C-PB	FBGA(78ball)	2	30mm	Mar '11
				1333-999	HMT42GR7MFR4C-H9	FBGA(78ball)	2	30mm	Mar '11
				1066-777	HMT42GR7MFR4C-G7	FBGA(78ball)	2	30mm	Mar '11
			1Gx4 (DDP)	1333-999	HMT42GR7BMR4C-H9	FBGA(82ball)	4	30mm	Now
				1066-777	HMT42GR7CMR4C-H9	FBGA(78ball)	4	30mm	May '11
				1066-777	HMT42GR7BMR4C-G7	FBGA(82ball)	4	30mm	Now
	8GB	1Gx72	512Mx4	1600-111111	HMT31GR7BFR4C-PB	FBGA(82ball)	2	30mm	Now
				1066-777	HMT31GR7CFR4C-PB	FBGA(78ball)	2	30mm	Mar '11
				1333-999	HMT31GR7BFR4C-H9	FBGA(82ball)	2	30mm	Now
				1066-777	HMT31GR7CFR4C-H9	FBGA(78ball)	2	30mm	Mar '11
				1066-777	HMT31GR7BFR4C-G7	FBGA(82ball)	2	30mm	Now
				1333-999	HMT31GR7CFR4C-G7	FBGA(78ball)	2	30mm	Now
			256Mx8	1333-999	HMT31GR7BFR8C-H9	FBGA(82ball)	4	30mm	Now
				1066-777	HMT31GR7CFR8C-H9	FBGA(78ball)	4	30mm	Mar '11
				1066-777	HMT31GR7BFR8C-G7	FBGA(82ball)	4	30mm	Now
				1333-999	HMT31GR7CFR8C-G7	FBGA(78ball)	4	30mm	Now
				1066-777	HMT31GR7BFR8C-PB	FBGA(82ball)	2	30mm	Now
				1333-999	HMT351R7BFR8C-PB	FBGA(78ball)	2	30mm	Mar '11
	4GB	512Mx72	256Mx8	1600-111111	HMT351R7CFR8C-PB	FBGA(82ball)	2	30mm	Now
				1333-999	HMT351R7BFR8C-H9	FBGA(82ball)	2	30mm	Now
				1066-777	HMT351R7CFR8C-H9	FBGA(78ball)	2	30mm	Mar '11
				1066-777	HMT351R7BFR8C-G7	FBGA(82ball)	2	30mm	Now
				1333-999	HMT351R7CFR8C-G7	FBGA(78ball)	2	30mm	Now
				1066-777	HMT351R7BFR8C-PB	FBGA(82ball)	2	30mm	Now
			512Mx4	1600-111111	HMT351R7BFR4C-PB	FBGA(82ball)	1	30mm	Now
				1333-999	HMT351R7CFR4C-PB	FBGA(78ball)	1	30mm	Mar '11
				1333-999	HMT351R7BFR4C-H9	FBGA(82ball)	1	30mm	Now
				1066-777	HMT351R7CFR4C-H9	FBGA(78ball)	1	30mm	Mar '11
				1066-777	HMT351R7BFR4C-G7	FBGA(82ball)	1	30mm	Now
				1333-999	HMT351R7CFR4C-G7	FBGA(78ball)	1	30mm	Now
			128Mx8	1333-999	HMT151R7TFR8C-H9	FBGA(78ball)	4	30mm	Now
				1066-777	HMT151R7TFR8C-G7	FBGA(78ball)	4	30mm	Now
				1333-999	HMT151R7TFR8C-PB	FBGA(82ball)	2	30mm	Now
				1066-777	HMT151R7TFR8C-G7	FBGA(78ball)	2	30mm	Now
				1333-999	HMT151R7TFR8C-H9	FBGA(78ball)	2	30mm	Now
				1066-777	HMT151R7TFR8C-G7	FBGA(78ball)	2	30mm	Now
	2GB	256Mx72	256Mx8	1600-111111	HMT325R7BFR8C-PB	FBGA(82ball)	1	30mm	Now
				1333-999	HMT325R7CFR8C-PB	FBGA(78ball)	1	30mm	Mar '11
				1333-999	HMT325R7BFR8C-H9	FBGA(82ball)	1	30mm	Now
				1066-777	HMT325R7CFR8C-H9	FBGA(78ball)	1	30mm	Mar '11
1066-777				HMT325R7BFR8C-G7	FBGA(82ball)	1	30mm	Now	
1333-999				HMT325R7CFR8C-G7	FBGA(78ball)	1	30mm	Now	
256Mx4			1333-999	HMT125R7TFR4C-H9	FBGA(78ball)	1	30mm	Now	
			1066-777	HMT125R7TFR4C-G7	FBGA(78ball)	1	30mm	Now	
			1333-999	HMT125R7TFR8C-H9	FBGA(78ball)	2	30mm	Now	
			1066-777	HMT125R7TFR8C-G7	FBGA(78ball)	2	30mm	Now	
			1333-999	HMT125R7TFR8C-PB	FBGA(82ball)	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	
			1333-999	HMT112R7TFR8C-PB	FBGA(82ball)	1	30mm	Now	
			1066-777	HMT112R7TFR8C-G7	FBGA(78ball)	1	30mm	Now	
			1333-999	HMT112R7TFR8C-H9	FBGA(78ball)	1	30mm	Now	
			1066-777	HMT112R7TFR8C-G7	FBGA(78ball)	1	30mm	Now	
1.35V	32GB	4Gx72	2Gx4 (DDP)	1333-999	HMT84GR7MMR4A-H9	FBGA(78ball)	4	30mm	Jul '11
				1066-777	HMT84GR7MMR4A-G7	FBGA(78ball)	4	30mm	Jul '11
	16GB	2Gx72	1Gx4	1333-999	HMT42GR7MFR4A-H9	FBGA(78ball)	2	30mm	Mar '11
				1066-777	HMT42GR7MFR4A-G7	FBGA(78ball)	2	30mm	Mar '11
				1333-999	HMT42GR7BMR4A-H9	FBGA(82ball)	4	30mm	Now
			1Gx4 (DDP)	1333-999	HMT42GR7CMR4A-H9	FBGA(78ball)	4	30mm	May '11
				1066-777	HMT42GR7BMR4A-G7	FBGA(82ball)	4	30mm	Now
				1066-777	HMT42GR7BMR4A-G7	FBGA(82ball)	4	30mm	Now
	8GB	1Gx72	512Mx4	1600-111111	HMT31GR7CFR4A-PB	FBGA(78ball)	2	30mm	Mar '11
				1333-999	HMT31GR7BFR4A-H9	FBGA(82ball)	2	30mm	Now
				1066-777	HMT31GR7CFR4A-H9	FBGA(78ball)	2	30mm	Mar '11
				1066-777	HMT31GR7BFR4A-G7	FBGA(82ball)	2	30mm	Now
				1333-999	HMT31GR7CFR4A-G7	FBGA(78ball)	2	30mm	Now
				1066-777	HMT31GR7BFR4A-PB	FBGA(82ball)	2	30mm	Now
			256Mx8	1333-999	HMT31GR7BFR8A-H9	FBGA(82ball)	4	30mm	Now
				1066-777	HMT31GR7CFR8A-H9	FBGA(78ball)	4	30mm	Mar '11
				1066-777	HMT31GR7BFR8A-G7	FBGA(82ball)	4	30mm	Now
				1333-999	HMT31GR7CFR8A-G7	FBGA(78ball)	4	30mm	Now
				1333-999	HMT351R7BFR8A-H9	FBGA(82ball)	2	30mm	Now
				1066-777	HMT351R7CFR8A-G7	FBGA(82ball)	2	30mm	Now
	4GB	512Mx72	512Mx4	1333-999	HMT351R7BFR8A-H9	FBGA(82ball)	2	30mm	Now
				1066-777	HMT351R7CFR8A-G7	FBGA(82ball)	2	30mm	Now
				1600-111111	HMT351R7CFR8A-PB	FBGA(78ball)	2	30mm	Mar '11
				1333-999	HMT351R7BFR8A-H9	FBGA(82ball)	2	30mm	Now
				1066-777	HMT351R7CFR8A-H9	FBGA(78ball)	2	30mm	Mar '11
				1066-777	HMT351R7BFR8A-G7	FBGA(82ball)	2	30mm	Now
			256Mx4	1333-999	HMT151R7TFR4A-H9	FBGA(78ball)	2	30mm	Now
				1066-777	HMT151R7TFR4A-G7	FBGA(78ball)	2	30mm	Now
				1333-999	HMT151R7TFR8A-H9	FBGA(78ball)	2	30mm	Now
				1066-777	HMT151R7TFR8A-G7	FBGA(78ball)	4	30mm	Now
				1333-999	HMT151R7TFR8A-PB	FBGA(82ball)	2	30mm	Now
				1066-777	HMT151R7TFR8A-G7	FBGA(78ball)	2	30mm	Now
	2GB	256Mx72	256Mx8	1600-111111	HMT325R7CFR8A-PB	FBGA(78ball)	1	30mm	Mar '11
				1333-999	HMT325R7BFR8A-H9	FBGA(82ball)	1	30mm	Now
				1066-777	HMT325R7CFR8A-H9	FBGA(78ball)	1	30mm	Mar '11
				1066-777	HMT325R7BFR8A-G7	FBGA(82ball)	1	30mm	Now
				1333-999	HMT125R7TFR4A-H9	FBGA(78ball)	1	30mm	Now
				1066-777	HMT125R7TFR4A-G7	FBGA(78ball)	1	30mm	Now
			256Mx4	1333-999	HMT125R7TFR8A-H9	FBGA(78ball)	2	30mm	Now
				1066-777	HMT125R7TFR8A-G7	FBGA(78ball)	2	30mm	Now
				1333-999	HMT125R7TFR8A-PB	FBGA(82ball)	2	30mm	Now
				1066-777	HMT125R7TFR8A-G7	FBGA(78ball)	2	30mm	Now
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	Jul '11					
				1333-999	HMT82GV7MMR4C-H9	FBGA(78ball)	2	18.75mm	Jul '11					
				1066-777	HMT82GV7MMR4C-G7	FBGA(78ball)	2	18.75mm	Jul '11					
	8GB	1Gx72	1Gx4 (DDP)	1600-111111	1600-111111	HMT41GV7BMR4C-PB	FBGA(82ball)	2	18.75mm	Now				
					1066-777	HMT41GV7BMR4C-PB	FBGA(82ball)	2	18.75mm	May '11				
					1333-999	HMT41GV7BMR4C-H9	FBGA(82ball)	2	18.75mm	Now				
			512Mx8 (DDP)	1600-111111	1333-999	1333-999	HMT41GV7CMR4C-H9	FBGA(78ball)	2	18.75mm	May '11			
						1066-777	HMT41GV7BMR4C-G7	FBGA(82ball)	2	18.75mm	Now			
						1333-999	HMT41GV7BMR8C-H9	FBGA(82ball)	4	18.75mm	Now			
					1066-777	HMT41GV7CMR8C-H9	FBGA(78ball)	4	18.75mm	May '11				
						HMT41GV7BMR8C-G7	FBGA(82ball)	4	18.75mm	Now				
						HMT41GV7BMR8C-H9	FBGA(82ball)	4	18.75mm	May '11				
	4GB	512Mx72	512Mx4	1600-111111	1600-111111	HMT351V7BFR4C-PB	FBGA(82ball)	1	18.75mm	Now				
					1333-999	HMT351V7BFR4C-H9	FBGA(82ball)	1	18.75mm	Now				
					1066-777	HMT351V7BFR4C-G7	FBGA(82ball)	1	18.75mm	Now				
			512Mx4 (DDP)	1333-999	1333-999	HMT351V7TMR4C-H9	FBGA(78ball)	2	18.75mm	Now				
					1066-777	HMT351V7TMR4C-G7	FBGA(78ball)	2	18.75mm	Now				
					1600-111111	HMT351V7BFR8C-PB	FBGA(82ball)	2	18.75mm	Now				
			256Mx8	1333-999	HMT351V7CFR8C-PB	HMT351V7CFR8C-PB	FBGA(78ball)	2	18.75mm	Mar '11				
						HMT351V7BFR8C-H9	FBGA(82ball)	2	18.75mm	Now				
						HMT351V7CFR8C-H9	FBGA(78ball)	2	18.75mm	Mar '11				
					1066-777	HMT351V7BFR8C-G7	FBGA(82ball)	2	18.75mm	Now				
						HMT351V7BFR8C-H9	FBGA(82ball)	1	18.75mm	Now				
						HMT351V7BFR8C-G7	FBGA(82ball)	1	18.75mm	Now				
			2GB	256Mx72	256Mx4	1333-999	1333-999	HMT125V7TFR4C-H9	FBGA(78ball)	1	18.75mm	Now		
							1066-777	HMT125V7TFR4C-G7	FBGA(78ball)	1	18.75mm	Now		
							1333-999	HMT125V7TFR8C-H9	FBGA(78ball)	2	18.75mm	Now		
	128Mx8	1066-777			HMT125V7TFR8C-G7	FBGA(78ball)	2	18.75mm	Now					
					1600-111111	HMT325V7BFR8C-PB	FBGA(82ball)	1	18.75mm	Now				
					1333-999	HMT325V7CFR8C-PB	FBGA(78ball)	1	18.75mm	Mar '11				
256Mx8	1333-999	HMT325V7BFR8C-H9			FBGA(82ball)	1	18.75mm	Now						
		HMT325V7CFR8C-H9			FBGA(82ball)	1	18.75mm	Mar '11						
		1066-777			HMT325V7BFR8C-G7	FBGA(82ball)	1	18.75mm	Now					
1GB	128Mx72	128Mx8	1333-999	1333-999	HMT112V7TFR8C-H9	FBGA(78ball)	1	18.75mm	Now					
				1066-777	HMT112V7TFR8C-G7	FBGA(78ball)	1	18.75mm	Now					
				1333-999	HMT112V7TFR8C-H9	FBGA(78ball)	1	18.75mm	Now					
1.35V	16GB	2Gx72	2Gx4 (DDP)	1333-999	HMT82GV7MMR4A-H9	FBGA(78ball)	2	18.75mm	Jul '11					
				1066-777	HMT82GV7MMR4A-G7	FBGA(78ball)	2	18.75mm	Jul '11					
				1600-111111	HMT41GV7CMR4A-PB	FBGA(78ball)	2	18.75mm	May '11					
	8GB	1Gx72	1Gx4 (DDP)	1600-111111	1333-999	HMT41GV7BMR4A-H9	FBGA(82ball)	2	18.75mm	Now				
					1066-777	HMT41GV7BMR4A-H9	FBGA(82ball)	2	18.75mm	May '11				
					1066-777	HMT41GV7BMR4A-G7	FBGA(82ball)	2	18.75mm	Now				
			512Mx8 (DDP)	1333-999	1333-999	1333-999	HMT41GV7BMR8A-H9	FBGA(82ball)	4	18.75mm	Now			
						1066-777	HMT41GV7CMR8A-H9	FBGA(78ball)	4	18.75mm	May '11			
						1066-777	HMT41GV7BMR8A-G7	FBGA(82ball)	4	18.75mm	Now			
					4GB	512Mx72	512Mx4	1333-999	1333-999	HMT351V7BFR4C-H9	FBGA(82ball)	1	18.75mm	Now
									1066-777	HMT351V7BFR4C-G7	FBGA(82ball)	1	18.75mm	Now
									1333-999	HMT351V7TMR4A-H9	FBGA(78ball)	2	18.75mm	Now
	512Mx4 (DDP)	1066-777	HMT351V7TMR4A-G7	FBGA(78ball)			2	18.75mm	Now					
			1600-111111	HMT351V7CFR8A-PB			FBGA(78ball)	2	18.75mm	Mar '11				
			1333-999	HMT351V7BFR8A-H9			FBGA(82ball)	2	18.75mm	Now				
	256Mx8	1333-999	HMT351V7CFR8A-H9	HMT351V7CFR8A-H9			FBGA(78ball)	2	18.75mm	Mar '11				
				HMT351V7BFR8A-H9			FBGA(82ball)	2	18.75mm	Now				
				1066-777			HMT351V7BFR8A-G7	FBGA(82ball)	2	18.75mm	Now			
			512Mx4	1600-111111	HMT351V7BFR4A-PB	FBGA(82ball)	2	18.75mm	Now					
					1333-999	HMT351V7BFR4A-H9	FBGA(82ball)	2	18.75mm	Now				
					1066-777	HMT351V7BFR4A-G7	FBGA(82ball)	2	18.75mm	Now				
	2GB	256Mx72	256Mx4	1333-999	1333-999	HMT125V7TFR4A-H9	FBGA(78ball)	1	18.75mm	Now				
					1066-777	HMT125V7TFR4A-G7	FBGA(78ball)	1	18.75mm	Now				
					1333-999	HMT125V7TFR8A-H9	FBGA(78ball)	2	18.75mm	Now				
			128Mx8	1066-777	HMT125V7TFR8A-G7	FBGA(78ball)	2	18.75mm	Now					
					1600-111111	HMT325V7CFR8A-PB	FBGA(78ball)	1	18.75mm	Mar '11				
					1333-999	HMT325V7BFR8A-H9	FBGA(82ball)	1	18.75mm	Now				
			256Mx8	1066-777	HMT325V7CFR8A-H9	FBGA(78ball)	1	18.75mm	Mar '11					
					HMT325V7BFR8A-G7	FBGA(82ball)	1	18.75mm	Now					
					HMT325V7BFR8A-H9	FBGA(82ball)	1	18.75mm	Now					
1GB	128Mx72	128Mx8	1333-999	1333-999	HMT112V7TFR8A-H9	FBGA(78ball)	1	18.75mm	Now					
				1066-777	HMT112V7TFR8A-G7	FBGA(78ball)	1	18.75mm	Now					
				1333-999	HMT112V7TFR8A-H9	FBGA(78ball)	1	18.75mm	Now					



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	Jul '11
				1333-999	HMT84GL7MMR4C-H9	FBGA(78ball)	4	30.35mm	Jul '11
	16GB	2Gx72	1Gx4 (DDP)	1600-111111	HMT84GL7BMR4C-PB	FBGA(82ball)	4	30.35mm	Dec '10
				1333-999	HMT42GL7BMR4C-H9	FBGA(82ball)	4	30.35mm	Dec '10
1.35V	32GB	4Gx72	2Gx4 (DDP)	1333-999	HMT84GL7MMR4A-H9	FBGA(78ball)	4	30.35mm	Jul '11
	16GB	2Gx72	1Gx4 (DDP)	1333-999	HMT42GL7BMR4A-H9	FBGA(78ball)	4	30.35mm	Dec '10





# 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	Mar '11
				1333-999	HMT41GS6MFR8C-H9	FBGA(78ball)	2	30mm	Mar '11
				1066-777	HMT41GS6MFR8C-G7	FBGA(78ball)	2	30mm	Mar '11
	4GB	512Mx64	256Mx8	1600-111111	HMT351S6BFR8C-PB	FBGA(82ball)	2	30mm	Now
					HMT351S6CFR8C-PB	FBGA(89ball)	2	30mm	Jan '11
				1333--999	HMT351S6BFR8C-H9	FBGA(82ball)	2	30mm	Now
					HMT351S6CFR8C-H9	FBGA(78ball)	2	30mm	Jan '11
				1066-777	HMT351S6BFR8C-G7	FBGA(82ball)	2	30mm	Now
	2GB	256Mx64	128Mx8	1333-999	HMT125S6BFR8C-H9	FBGA(78ball)	2	30mm	Now
					HMT125S6TFR8C-H9	FBGA(78ball)	2	30mm	Now
				1066-777	HMT125S6BFR8C-G7	FBGA(78ball)	2	30mm	Now
					HMT125S6TFR8C-G7	FBGA(78ball)	2	30mm	Now
				800-666	HMT125S6BFR8C-S6	FBGA(78ball)	2	30mm	Now
			HMT125S6TFR8C-S6		FBGA(78ball)	2	30mm	Now	
			256Mx8	1600-111111	HMT325S6BFR8C-PB	FBGA(82ball)	1	30mm	Now
					HMT325S6CFR8C-PB	FBGA(78ball)	1	30mm	Jan '11
				1333-999	HMT325S6BFR8C-H9	FBGA(82ball)	1	30mm	Now
					HMT325S6CFR8C-H9	FBGA(78ball)	1	30mm	Jan '11
	1066-777	HMT325S6BFR8C-G7		FBGA(82ball)	1	30mm	Now		
	128Mx16	1333-999	HMT325S6BFR6C-H9	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	Now	
			1066-777	HMT112S6BFR6C-G7	FBGA(96ball)	2	30mm	Now	
			800-666	HMT112S6BFR6C-S6	FBGA(96ball)	2	30mm	Now	
	128Mx16	1333-999	HMT312S6BFR6C-H9	FBGA(96ball)	1	30mm	Now		
			1066-777	HMT312S6BFR6C-G7	FBGA(96ball)	1	30mm	Now	



# 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	Now
				DDR2 667-555	HMP351U7AFR8C-Y5	FBGA(60ball)	2	30mm	Now
	2GB	256Mx64	128Mx8	DDR2 800-555	HYMP125U64CP8-S5	FBGA(60ball)	2	30mm	Now
					HMP125U6EFR8C-S5	FBGA(60ball)	2	30mm	Now
				DDR2 800-666	HMP125U6NFR8C-S6	FBGA(60ball)	2	30mm	Now
					HYMP125U64CP8-Y5	FBGA(60ball)	2	30mm	Now
				DDR2 667-555	HMP125U6EFR8C-Y5	FBGA(60ball)	2	30mm	Now
					HMP125U6NFR8C-Y5	FBGA(60ball)	2	30mm	Now
				DDR2 533-444	HYMP125U64CP8-C4	FBGA(60ball)	2	30mm	Now
					HMP125U6EFR8C-C4	FBGA(60ball)	2	30mm	Now
		HMP125U6NFR8C-C4	FBGA(60ball)		2	30mm	Now		
		256Mx72	128Mx8	DDR2 800-555	HYMP125U72CP8-S5	FBGA(60ball)	2	30mm	Now
	DDR2 667-555			HYMP125U72CP8- Y5	FBGA(60ball)	2	30mm	Now	
	1GB	128Mx64	128Mx8	DDR2 800-555	HYMP112U64CP8-S5	FBGA(60ball)	1	30mm	Now
					HMP112U6EFR8C-S5	FBGA(60ball)	1	30mm	Now
				DDR2 800-666	HMP112U6NFR8C-S6	FBGA(60ball)	1	30mm	Now
					HYMP112U64CP8-Y5	FBGA(60ball)	1	30mm	Now
				DDR2 667-555	HMP112U6EFR8C-Y5	FBGA(60ball)	1	30mm	Now
HMP112U6NFR8C-Y5					FBGA(60ball)	1	30mm	Now	
DDR2 533-444				HYMP112U64CP8-C4	FBGA(60ball)	1	30mm	Now	
				HMP112U6EFR8C-C4	FBGA(60ball)	1	30mm	Now	
		HMP112U6NFR8C-C4	FBGA(60ball)	1	30mm	Now			
128Mx72		128Mx8	DDR2 800-555	HYMP112U72CP8-S5	FBGA(60ball)	1	30mm	Now	
	DDR2 667-555		HYMP112U72CP8-Y5	FBGA(60ball)	1	30mm	Now		



# 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	Now
				DDR2 667-555	HMP31GP7AFR4C-Y5	FBGA(60ball)	2	30mm	Now
	4GB	512Mx72	256Mx4	DDR2 800-555	HYMP151P72CP4-S5	FBGA(60ball)	2	30mm	Now
				DDR2 667-555	HYMP151P72CP4-Y5	FBGA(60ball)	2	30mm	Now
	2GB	256Mx72	128MX8	DDR2 800-555	HYMP125P72CP8-S5	FBGA(60ball)	2	30mm	Now
				DDR2 667-555	HYMP125P72CP8-Y5	FBGA(60ball)	2	30mm	Now
			256MX4	DDR2 800-555	HYMP125P72CP4-S5	FBGA(60ball)	1	30mm	Now
				DDR2 667-555	HYMP125P72CP4-Y5	FBGA(60ball)	1	30mm	Now
	1GB	128Mx72	128Mx8	DDR2 667-555	HYMP112P72CP8-Y5	FBGA(60ball)	1	30mm	Now



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	Now
	2GB	256Mx72	256MX4	DDR2 800-555	HYMP125P72CP4L-S5	FBGA(60ball)	2	18.3mm	Now
				DDR2 667-555	HYMP125P72CP4L-Y5	FBGA(60ball)	2	18.3mm	Now
	1GB	128Mx72	128Mx8	DDR2 800-555	HYMP112P72CP8L-S5	FBGA(60ball)	1	18.3mm	Now
				DDR2 667-555	HYMP112P72CP8L-Y5	FBGA(60ball)	1	18.3mm	Now



# 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	Now
				DDR2 667-555	HMP31GF7AFR4C-Y5xx	FBGA(60ball)	2	30.35mm	Now
	4GB	512Mx72	256Mx4	DDR2 800-555	HYMP151F72CP4xx-S5	FBGA(60ball)	2	30.35mm	Now
				DDR2 667-555	HYMP151F72CP4xx-Y5	FBGA(60ball)	2	30.35mm	Now
			128Mx8	DDR2 800-555	HYMP151F72CP8xx-S5	FBGA(60ball)	4	30.35mm	Now
				DDR2 667-555	HYMP151F72CP8xx-Y5	FBGA(60ball)	4	30.35mm	Now
	2GB	256Mx72	128Mx8	DDR2 800-555	HYMP125F72CP8xx-S5	FBGA(60ball)	2	30.35mm	Now
				DDR2 667-555	HYMP125F72CP8xx-Y5	FBGA(60ball)	2	30.35mm	Now
	1GB	128Mx72	128Mx8	DDR2 800-555	HYMP112F72CP8xx-S5	FBGA(60ball)	1	30.35mm	Now
				DDR2 667-555	HYMP112F72CP8xx-Y5	FBGA(60ball)	1	30.35mm	Now
1.55V	8GB	1Gx72	512Mx4	DDR2 667-555	HMP31GL7AFR4C-Y5xx	FBGA(60ball)	2	30.35mm	Now
	4GB	512Mx72	256Mx4	DDR2 667-555	HYMP151L72CP4xx-Y5	FBGA(60ball)	2	30.35mm	Now
	2GB	256Mx72	128Mx8	DDR2 667-555	HYMP125L72CP8xx-Y5	FBGA(60ball)	2	30.35mm	Now
	1GB	128Mx72	128Mx8	DDR2 667-555	HYMP112L72CP8xx-Y5	FBGA(60ball)	1	30.35mm	Now

**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	Now	
					HMP125S6EFR8C-S5	FBGA(60ball)	2	30mm	Now	
					HMP125S6NFR8C-S5	FBGA(60ball)	2	30mm	Now	
				DDR2 800-666	HMP125S6NFR8C-S6	FBGA(60ball)	2	30mm	Now	
					DDR2 667-555	HYMP125S64CP8-Y5	FBGA(60ball)	2	30mm	Now
						HMP125S6EFR8C-Y5	FBGA(60ball)	2	30mm	Now
				HMP125S6NFR8C-Y5		FBGA(60ball)	2	30mm	Now	
				DDR2 533-444	HYMP125S64CP8-C4	FBGA(60ball)	2	30mm	Now	
					HMP125S6EFR8C-C4	FBGA(60ball)	2	30mm	Now	
	HMP125S6NFR8C-C4	FBGA(60ball)	2		30mm	Now				
	1GB	128Mx64	64Mx16	DDR2 800-555	HYMP112S64CP6-S5	FBGA(84ball)	2	30mm	Now	
					HMP112S6EFR6C-S5	FBGA(84ball)	2	30mm	Now	
DDR2 667-555				HYMP112S64CP6-Y5	FBGA(84ball)	2	30mm	Now		
				HMP112S6EFR6C-Y5	FBGA(84ball)	2	30mm	Now		
DDR2 533-444				HYMP112S64CP6-C4	FBGA(84ball)	2	30mm	Now		
				HMP112S6EFR6C-C4	FBGA(84ball)	2	30mm	Now		