

SK Hynix



Dreams



Good Memory



Q3' 2013 DATABOOK

▪ DDR3 SDRAM Solder-Down

VDD	DENSITY	ORG.	SPEED	PART NUMBER	PKG.	FEATURE	AVAIL.
1.5V (DDR3)	2Gb	256Mx8	DDR3 1866	H5TQ2G83EFR-RDC	FBGA(78ball)	8Bank, 1.5V, CL13,13-13-13	Now
			DDR3 1600	H5TQ2G83CFR-PBC	FBGA(78ball)	8Bank, 1.5V, CL11,11-11-11	Now
				H5TQ2G83EFR-PBC	FBGA(78ball)	8Bank, 1.5V, CL11,11-11-11	Now
			DDR3 1333	H5TQ2G83CFR-H9C	FBGA(78ball)	8Bank, 1.5V, CL9,9-9-9	Now
				H5TQ2G83EFR-H9C	FBGA(78ball)	8Bank, 1.5V, CL9,9-9-9	Now
		128Mx16	DDR3 1866	H5TQ2G63FFR-RDC	FBGA(96ball)	8Bank, 1.5V, CL13,13-13-13	Now
			DDR3 1600	H5TQ2G63DFR-PBC	FBGA(96ball)	8Bank, 1.5V, CL11,11-11-11	Now
				H5TQ2G63FFR-PBC	FBGA(96ball)	8Bank, 1.5V, CL11,11-11-11	Now
			DDR3 1333	H5TQ2G63DFR-H9C	FBGA(96ball)	8Bank, 1.5V, CL9,9-9-9	Now
				H5TQ2G63FFR-H9C	FBGA(96ball)	8Bank, 1.5V, CL9,9-9-9	Now
	4Gb	512Mx8	DDR3 1866	H5TQ4G83AFR-RDC	FBGA(78ball)	8Bank, 1.5V, CL13,13-13-13	Now
				H5TQ4G83BFR-RDC	FBGA(78ball)	8Bank, 1.5V, CL13,13-13-13	Q1'14
			DDR3 1600	H5TQ4G83MFR-PBC	FBGA(78ball)	8Bank, 1.5V, CL11,11-11-11	Now
				H5TQ4G83AFR-PBC	FBGA(78ball)	8Bank, 1.5V, CL11,11-11-11	Now
				H5TQ4G83BFR-PBC	FBGA(78ball)	8Bank, 1.5V, CL11,11-11-11	Q1'14
			DDR3 1333	H5TQ4G83MFR-H9C	FBGA(78ball)	8Bank, 1.5V, CL9,9-9-9	Now
				H5TQ4G83AFR-H9C	FBGA(78ball)	8Bank, 1.5V, CL9,9-9-9	Now
				H5TQ4G83BFR-H9C	FBGA(78ball)	8Bank, 1.5V, CL9,9-9-9	Q1'14
		256Mx16	DDR3 1866	H5TQ4G63AFR-RDC	FBGA(96ball)	8Bank, 1.5V, CL13,13-13-13	Now
				DDR3 1600	H5TQ4G63MFR-PBC	FBGA(96ball)	8Bank, 1.5V, CL11,11-11-11
H5TQ4G63AFR-PBC			FBGA(96ball)		8Bank, 1.5V, CL11,11-11-11	Now	
DDR3 1333			H5TQ4G63MFR-H9C	FBGA(96ball)	8Bank, 1.5V, CL9,9-9-9	Now	
			H5TQ4G63AFR-H9C	FBGA(96ball)	8Bank, 1.5V, CL9,9-9-9	Now	
8Gb			1Gx8(DDP)	DDR3 1866	H5TQ8G83AMR-RDC	FBGA(78ball)	8Bank, 1.5V, CL13,13-13-13
	H5TQ8G83BMR-RDC	FBGA(78ball)			8Bank, 1.5V, CL13,13-13-13	Q2'14	
	DDR3 1600	H5TQ8G83AMR-PBC		FBGA(78ball)	8Bank, 1.5V, CL11,11-11-11	Now	
		H5TQ8G83BMR-PBC		FBGA(78ball)	8Bank, 1.5V, CL11,11-11-11	Q2'14	
	DDR3 1333	H5TQ8G83AMR-H9C		FBGA(78ball)	8Bank, 1.5V, CL9,9-9-9	Now	
		H5TQ8G83BMR-H9C		FBGA(78ball)	8Bank, 1.5V, CL9,9-9-9	Q2'14	
	DDR3 1066	H5TQ8G83AMR-G7C	FBGA(78ball)	8Bank, 1.5V, CL7,7-7-7	Now		
		H5TQ8G83BMR-G7C	FBGA(78ball)	8Bank, 1.5V, CL7,7-7-7	Q2'14		
	512Mx16(DDP)	DDR3 1866	H5TQ6G63AMR-RDC	FBGA(96ball)	8Bank, 1.5V, CL13,13-13-13	Now	
			DDR3 1600	H5TQ6G63AMR-PBC	FBGA(96ball)	8Bank, 1.5V, CL11,11-11-11	Now
		DDR3 1333	H5TQ6G63AMR-H9C	FBGA(96ball)	8Bank, 1.5V, CL9,9-9-9	Now	
			DDR3 1066	H5TQ6G63AMR-G7C	FBGA(96ball)	8Bank, 1.5V, CL7,7-7-7	Now

▪ DDR3L SDRAM Solder-Down

VDD	DENSITY	ORG.	SPEED	PART NUMBER	PKG.	FEATURE	AVAIL.	
1.35V (DDR3L)	2Gb	256Mx8	DDR3 1600	H5TC2G83CFR-PBA	FBGA(78ball)	8Bank, 1.35V, CL11,11-11-11	Now	
				H5TC2G83EFR-PBA	FBGA(78ball)	8Bank, 1.35V, CL11,11-11-11	Now	
			DDR3 1333	H5TC2G83CFR-H9A	FBGA(78ball)	8Bank, 1.35V, CL9,9-9-9	Now	
				H5TC2G83EFR-H9A	FBGA(78ball)	8Bank, 1.35V, CL9,9-9-9	Now	
		128Mx16	DDR3 1600	H5TC2G63DFR-PBA	FBGA(96ball)	8Bank, 1.35V, CL11,11-11-11	Now	
				H5TC2G63FFR-PBA	FBGA(96ball)	8Bank, 1.35V, CL11,11-11-11	Now	
	DDR3 1333		H5TC2G63DFR-H9A	FBGA(96ball)	8Bank, 1.35V, CL9,9-9-9	Now		
			H5TC2G63FFR-H9A	FBGA(96ball)	8Bank, 1.35V, CL9,9-9-9	Now		
	4Gb	512Mx8	DDR3 1600	H5TC4G83MFR-PBA	FBGA(78ball)	8Bank, 1.35V, CL11,11-11-11	Now	
				H5TC4G83AFR-PBA	FBGA(78ball)	8Bank, 1.35V, CL11,11-11-11	Now	
				H5TC4G83BFR-PBA	FBGA(78ball)	8Bank, 1.35V, CL11,11-11-11	Q1'14	
			DDR3 1333	H5TC4G83MFR-H9A	FBGA(78ball)	8Bank, 1.35V, CL9,9-9-9	Now	
H5TC4G83AFR-H9A				FBGA(78ball)	8Bank, 1.35V, CL9,9-9-9	Now		
H5TC4G83BFR-H9A				FBGA(78ball)	8Bank, 1.35V, CL9,9-9-9	Q1'14		
256Mx16		DDR3 1600	H5TC4G63MFR-PBA	FBGA(96ball)	8Bank, 1.35V, CL11,11-11-11	Now		
			H5TC4G63AFR-PBA	FBGA(96ball)	8Bank, 1.35V, CL11,11-11-11	Now		
		DDR3 1333	H5TC4G63MFR-H9A	FBGA(96ball)	8Bank, 1.35V, CL9,9-9-9	Now		
			H5TC4G63AFR-H9A	FBGA(96ball)	8Bank, 1.35V, CL9,9-9-9	Now		
		8Gb	1Gx8(DDP)	DDR3 1600	H5TC8G83AMR-PBA	FBGA(78ball)	8Bank, 1.35V, CL11,11-11-11	Now
					H5TC8G83BMR-PBA	FBGA(78ball)	8Bank, 1.35V, CL11,11-11-11	Q2'14
DDR3 1333	H5TC8G83AMR-H9A			FBGA(78ball)	8Bank, 1.35V, CL9,9-9-9	Now		
	H5TC8G83BMR-H9A			FBGA(78ball)	8Bank, 1.35V, CL9,9-9-9	Q2'14		
DDR3 1066	H5TC8G83AMR-G7A			FBGA(78ball)	8Bank, 1.35V, CL7,7-7-7	Now		
	H5TC8G83BMR-G7A			FBGA(78ball)	8Bank, 1.35V, CL7,7-7-7	Q2'14		
512Mx16(DDP)	DDR3 1600	H5TC8G63AMR-PBA	FBGA(96ball)	8Bank, 1.35V, CL11,11-11-11	Now			
		DDR3 1333	H5TC8G63AMR-H9A	FBGA(96ball)	8Bank, 1.35V, CL9,9-9-9	Now		
		DDR3 1066	H5TC8G63AMR-G7A	FBGA(96ball)	8Bank, 1.35V, CL7,7-7-7	Now		

▪ DDR3L-RS SDRAM Solder-Down

VDD	DENSITY	ORG.	SPEED	PART NUMBER	PKG.	FEATURE	AVAIL.	
1.35V (DDR3L-RS)	2Gb	256Mx8	DDR3 1600	H5TC2G83CFR-PBR	FBGA(78ball)	8Bank, 1.35V, CL11,11-11-11	Now	
				H5TC2G83EFR-PBR	FBGA(78ball)	8Bank, 1.35V, CL11,11-11-11	Now	
			DDR3 1333	H5TC2G83CFR-H9R	FBGA(78ball)	8Bank, 1.35V, CL9,9-9-9	Now	
				H5TC2G83EFR-H9R	FBGA(78ball)	8Bank, 1.35V, CL9,9-9-9	Now	
		128Mx16	DDR3 1600	H5TC2G63DFR-PBR	FBGA(96ball)	8Bank, 1.35V, CL11,11-11-11	Now	
				H5TC2G63FFR-PBR	FBGA(96ball)	8Bank, 1.35V, CL11,11-11-11	Now	
			DDR3 1333	H5TC2G63DFR-H9R	FBGA(96ball)	8Bank, 1.35V, CL9,9-9-9	Now	
				H5TC2G63FFR-H9R	FBGA(96ball)	8Bank, 1.35V, CL9,9-9-9	Now	
	4Gb	512Mx8	DDR3 1600	H5TC4G83AFR-PBR	FBGA(78ball)	8Bank, 1.35V, CL11,11-11-11	Now	
				H5TC4G83BFR-PBR	FBGA(78ball)	8Bank, 1.35V, CL11,11-11-11	Q1'14	
			DDR3 1333	H5TC4G83AFR-H9R	FBGA(78ball)	8Bank, 1.35V, CL9,9-9-9	Now	
				H5TC4G83BFR-H9R	FBGA(78ball)	8Bank, 1.35V, CL9,9-9-9	Q1'14	
		256Mx16	DDR3 1600	H5TC4G63AFR-PBR	FBGA(96ball)	8Bank, 1.35V, CL11,11-11-11	Now	
				DDR3 1333	H5TC4G63AFR-H9R	FBGA(96ball)	8Bank, 1.35V, CL9,9-9-9	Now
		8Gb	1Gx8(DDP)	DDR3 1600	H5TC8G83AMR-PBR	FBGA(78ball)	8Bank, 1.35V, CL11,11-11-11	Now
					H5TC8G83BMR-PBR	FBGA(78ball)	8Bank, 1.35V, CL11,11-11-11	Q2'14
DDR3 1333	H5TC8G83AMR-H9R				FBGA(78ball)	8Bank, 1.35V, CL9,9-9-9	Now	
	H5TC8G83BMR-H9R				FBGA(78ball)	8Bank, 1.35V, CL9,9-9-9	Q2'14	
DDR3 1066	H5TC8G83AMR-G7R			FBGA(78ball)	8Bank, 1.35V, CL7,7-7-7	Now		
	H5TC8G83BMR-G7R			FBGA(78ball)	8Bank, 1.35V, CL7,7-7-7	Q2'14		
512Mx16(DDP)	DDR3 1600			H5TC8G63AMR-PBR	FBGA(96ball)	8Bank, 1.35V, CL11,11-11-11	Now	
				DDR3 1333	H5TC8G63AMR-H9R	FBGA(96ball)	8Bank, 1.35V, CL9,9-9-9	Now
			DDR3 1066	H5TC8G63AMR-G7R	FBGA(96ball)	8Bank, 1.35V, CL7,7-7-7	Now	

▪ UBDIMM (VDD=1.5V)

VDD	MODULE		BASED COM.	SPEED	PART NUMBER	COMPONENT PKG.	#OF RANK	HEIGHT	AVAIL.				
	DENSITY	ORG.											
1.5V	8GB	1Gx64	512Mx8	1866-131313	HMT41GU6AFR8C-RD	FBGA(78ball)	2	30mm	Now				
					HMT41GU6BFR8C-RD	FBGA(78ball)	2	30mm	Q4'13				
					1600-111111	HMT41GU6MFR8C-PB	FBGA(78ball)	2	30mm	Now			
						HMT41GU6AFR8C-PB	FBGA(78ball)	2	30mm	Q4'13			
				1333-999	HMT41GU6MFR8C-H9	FBGA(78ball)	2	30mm	Now				
					HMT41GU6AFR8C-H9	FBGA(78ball)	2	30mm	Now				
					HMT41GU6BFR8C-H9	FBGA(78ball)	2	30mm	Q4'13				
				1Gx72	512Mx8	1866-131313	1866-131313	HMT41GU7AFR8C-RD	FBGA(78ball)	2	30mm	Now	
								HMT41GU7BFR8C-RD	FBGA(78ball)	2	30mm	Q4'13	
							1600-111111	HMT41GU7MFR8C-PB	FBGA(78ball)	2	30mm	Now	
	HMT41GU7AFR8C-PB	FBGA(78ball)	2					30mm	Now				
	HMT41GU7BFR8C-PB	FBGA(78ball)	2					30mm	Q4'13				
	1333-999	HMT41GU7MFR8C-H9	FBGA(78ball)				2	30mm	Now				
		HMT41GU7AFR8C-H9	FBGA(78ball)				2	30mm	Now				
		HMT41GU7BFR8C-H9	FBGA(78ball)				2	30mm	Q4'13				
		4GB	512Mx64				512Mx8	1866-131313	HMT451U6AFR8C-RD	FBGA(78ball)	1	30mm	Now
									HMT451U6BFR8C-RD	FBGA(78ball)	1	30mm	Q4'13
	1600-111111	HMT451U6MFR8C-PB		FBGA(78ball)	1	30mm		Now					
		HMT451U6AFR8C-PB		FBGA(78ball)	1	30mm		Now					
		HMT451U6BFR8C-PB		FBGA(78ball)	1	30mm		Q4'13					
1333-999	HMT451U6MFR8C-H9	FBGA(78ball)		1	30mm	Now							
	HMT451U6AFR8C-H9	FBGA(78ball)		1	30mm	Now							
	HMT451U6BFR8C-H9	FBGA(78ball)		1	30mm	Q4'13							
	256Mx8	1866-131313		HMT351U6EFR8C-RD	FBGA(78ball)	2		30mm	Now				
HMT351U6CFR8C-PB				FBGA(78ball)	2	30mm		Now					
1600-111111		HMT351U6EFR8C-PB	FBGA(78ball)	2	30mm	Now							
		HMT351U6CFR8C-H9	FBGA(78ball)	2	30mm	Now							
1333-999		HMT351U6EFR8C-H9	FBGA(78ball)	2	30mm	Now							
		HMT351U6CFR8C-H9	FBGA(78ball)	2	30mm	Now							
512Mx72	512Mx8	1866-131313	1866-131313	HMT451U7AFR8C-RD	FBGA(78ball)	1	30mm	Now					
				HMT451U7BFR8C-RD	FBGA(78ball)	1	30mm	Q4'13					
			1600-111111	HMT451U7AFR8C-PB	FBGA(78ball)	1	30mm	Now					
				HMT451U7BFR8C-PB	FBGA(78ball)	1	30mm	Q4'13					
				HMT451U7AFR8C-H9	FBGA(78ball)	1	30mm	Now					
			1333-999	HMT451U7BFR8C-H9	FBGA(78ball)	1	30mm	Q4'13					
				256Mx8	1866-131313	HMT351U7CFR8C-RD	FBGA(78ball)	2	30mm	Now			
						HMT351U7CFR8C-PB	FBGA(78ball)	2	30mm	Now			
	1600-111111	HMT351U7EFR8C-PB	FBGA(78ball)		2	30mm	Now						
		HMT351U7CFR8C-H9	FBGA(78ball)		2	30mm	Now						
	1333-999	HMT351U7EFR8C-H9	FBGA(78ball)	2	30mm	Now							
		HMT351U7CFR8C-H9	FBGA(78ball)	2	30mm	Now							
	2GB	256Mx64	256Mx8	1866-131313	HMT325U6EFR8C-RD	FBGA(78ball)	1	30mm	Now				
					HMT325U6CFR8C-PB	FBGA(78ball)	1	30mm	Now				
HMT325U6EFR8C-PB					FBGA(78ball)	1	30mm	Now					
HMT325U6CFR8C-H9					FBGA(78ball)	1	30mm	Now					
1600-111111				HMT325U6EFR8C-H9	FBGA(78ball)	1	30mm	Now					
				1333-999	HMT325U6CFR8C-H9	FBGA(78ball)	1	30mm	Now				
					HMT325U7EFR8C-RD	FBGA(78ball)	1	30mm	Now				
				256Mx72	256Mx8	1866-131313	HMT325U7CFR8C-PB	FBGA(78ball)	1	30mm	Now		
HMT325U7EFR8C-PB		FBGA(78ball)	1				30mm	Now					
1600-111111		HMT325U7CFR8C-H9	FBGA(78ball)			1	30mm	Now					
		HMT325U7EFR8C-H9	FBGA(78ball)			1	30mm	Now					
1333-999		HMT325U7CFR8C-H9	FBGA(78ball)			1	30mm	Now					
		HMT325U7EFR8C-H9	FBGA(78ball)			1	30mm	Now					

▪ UBDIMM (VDD=1.35V)

VDD	MODULE		BASED COM.	SPEED	PART NUMBER	COMPONENT PKG.	#OF RANK	HEIGHT	AVAIL.
	DENSITY	ORG.							
1.35V	8GB	1Gx72	512Mx8	1600-111111	HMT41GU7MFR8A-PB	FBGA(78ball)	2	30mm	Now
					HMT41GU7AFR8A-PB	FBGA(78ball)	2	30mm	Now
					HMT41GU7BFR8A-PB	FBGA(78ball)	2	30mm	Q4'13
				1333-999	HMT41GU7MFR8A-H9	FBGA(78ball)	2	30mm	Now
					HMT41GU7AFR8A-H9	FBGA(78ball)	2	30mm	Now
					HMT41GU7BFR8A-H9	FBGA(78ball)	2	30mm	Q4'13
	4GB	512Mx72	512Mx8	1600-111111	HMT451U7AFR8A-PB	FBGA(78ball)	1	30mm	Now
					HMT451U7BFR8A-PB	FBGA(78ball)	1	30mm	Q4'13
				1333-999	HMT451U7AFR8A-H9	FBGA(78ball)	1	30mm	Now
					HMT451U7BFR8A-H9	FBGA(78ball)	1	30mm	Q4'13
			256Mx8	1600-111111	HMT351U7CFR8A-PB	FBGA(78ball)	2	30mm	Now
					HMT351U7EFR8A-PB	FBGA(78ball)	2	30mm	Now
				1333-999	HMT351U7CFR8A-H9	FBGA(78ball)	2	30mm	Now
					HMT351U7EFR8A-H9	FBGA(78ball)	2	30mm	Now
	2GB	256Mx72	256Mx8	1600-111111	HMT325U7CFR8A-PB	FBGA(78ball)	1	30mm	Now
					HMT325U7EFR8A-PB	FBGA(78ball)	1	30mm	Now
1333-999				HMT325U7CFR8A-H9	FBGA(78ball)	1	30mm	Now	
				HMT325U7EFR8A-H9	FBGA(78ball)	1	30mm	Now	

Computing Memory

DDR3 SDRAM : Module



▪ RDIMM (VDD=1.5V)

VDD	MODULE		BASED COM.	SPEED	PART NUMBER	COMPONENT PKG.	#OF RANK	HEIGHT	AVAIL.			
	DENSITY	ORG.										
1.5V	32GB	4Gx72	2Gx4 (DDP)	1600-111111	HMT84GR7AMR4C-PB	FBGA(78ball)	4	30mm	Now			
					HMT84GR7BMR4C-PB	FBGA(78ball)	4	30mm	Q1'14			
				1333-999	HMT84GR7MMR4C-H9	FBGA(78ball)	4	30mm	Now			
					HMT84GR7AMR4C-H9	FBGA(78ball)	4	30mm	Now			
				1066-777	HMT84GR7BMR4C-H9	FBGA(78ball)	4	30mm	Q1'14			
					HMT84GR7MMR4C-G7	FBGA(78ball)	4	30mm	Now			
	16GB	2Gx72	1Gx4	1866-131313	HMT42GR7AFR4C-RD	FBGA(78ball)	2	30mm	Now			
					HMT42GR7BFR4C-RD	FBGA(78ball)	2	30mm	Q1'14			
				1600-111111	HMT42GR7MFR4C-PB	FBGA(78ball)	2	30mm	Now			
					HMT42GR7AFR4C-PB	FBGA(78ball)	2	30mm	Now			
				1333-999	HMT42GR7BFR4C-PB	FBGA(78ball)	2	30mm	Q1'14			
					HMT42GR7MFR4C-H9	FBGA(78ball)	2	30mm	Now			
			1Gx4 (DDP)	1333-999	HMT42GR7AFR4C-H9	FBGA(78ball)	2	30mm	Now			
					HMT42GR7BFR4C-H9	FBGA(78ball)	2	30mm	Q1'14			
				1066-777	HMT42GR7CMR4C-H9	FBGA(78ball)	4	30mm	Now			
					HMT42GR7CMR4C-G7	FBGA(78ball)	4	30mm	Now			
				8GB	1Gx72	1Gx4	1866-131313	HMT41GR7AFR4C-RD	FBGA(78ball)	1	30mm	Now
								HMT41GR7BFR4C-RD	FBGA(78ball)	1	30mm	Q1'14
	1600-111111	HMT41GR7MFR4C-PB	FBGA(78ball)				1	30mm	Now			
		HMT41GR7AFR4C-PB	FBGA(78ball)				1	30mm	Now			
	1333-999	HMT41GR7BFR4C-PB	FBGA(78ball)				1	30mm	Q1'14			
		HMT41GR7MFR4C-H9	FBGA(78ball)				1	30mm	Now			
	512Mx8	1866-131313	HMT41GR7AFR4C-H9				FBGA(78ball)	1	30mm	Now		
			HMT41GR7BFR4C-H9				FBGA(78ball)	1	30mm	Q1'14		
		1600-111111	HMT41GR7AFR8C-RD				FBGA(78ball)	2	30mm	Now		
			HMT41GR7BFR8C-RD				FBGA(78ball)	2	30mm	Q1'14		
		1333-999	HMT41GR7MFR8C-PB				FBGA(78ball)	2	30mm	Now		
			HMT41GR7AFR8C-PB				FBGA(78ball)	2	30mm	Now		
	512Mx4	1866-131313	HMT41GR7BFR8C-PB			FBGA(78ball)	2	30mm	Q1'14			
			HMT41GR7MFR8C-H9			FBGA(78ball)	2	30mm	Now			
		1600-111111	HMT41GR7AFR8C-H9			FBGA(78ball)	2	30mm	Now			
			HMT41GR7BFR8C-H9			FBGA(78ball)	2	30mm	Q1'14			
		1333-999	HMT31GR7EFR4C-RD			FBGA(78ball)	2	30mm	Now			
			HMT31GR7CFR4C-PB			FBGA(78ball)	2	30mm	Now			
	4GB	512Mx72	512Mx8			1866-131313	HMT451R7AFR8C-RD	FBGA(78ball)	1	30mm	Now	
							HMT451R7BFR8C-RD	FBGA(78ball)	1	30mm	Q1'14	
						1600-111111	HMT451R7AFR8C-PB	FBGA(78ball)	1	30mm	Now	
							HMT451R7BFR8C-PB	FBGA(78ball)	1	30mm	Q1'14	
						1333-999	HMT451R7AFR8C-H9	FBGA(78ball)	1	30mm	Now	
							HMT451R7BFR8C-H9	FBGA(78ball)	1	30mm	Q1'14	
			512Mx4	1866-131313	HMT351R7EFR4C-RD	FBGA(78ball)	1	30mm	Now			
					HMT351R7CFR4C-PB	FBGA(78ball)	1	30mm	Now			
				1600-111111	HMT351R7EFR4C-PB	FBGA(78ball)	1	30mm	Now			
					HMT351R7CFR4C-H9	FBGA(78ball)	1	30mm	Now			
				1333-999	HMT351R7EFR4C-H9	FBGA(78ball)	1	30mm	Now			
					HMT351R7CFR4C-H9	FBGA(78ball)	1	30mm	Now			
			256Mx8	1866-131313	HMT351R7EFR8C-RD	FBGA(78ball)	2	30mm	Now			
					HMT351R7CFR8C-PB	FBGA(78ball)	2	30mm	Now			
1600-111111				HMT351R7EFR8C-PB	FBGA(78ball)	2	30mm	Now				
				HMT351R7CFR8C-H9	FBGA(78ball)	2	30mm	Now				
1333-999				HMT351R7EFR8C-H9	FBGA(78ball)	2	30mm	Now				
				HMT351R7CFR8C-H9	FBGA(78ball)	2	30mm	Now				
2GB	256Mx72	256Mx8	1866-131313	HMT325R7EFR8C-RD	FBGA(78ball)	1	30mm	Now				
				HMT325R7CFR8C-PB	FBGA(78ball)	1	30mm	Now				
			1600-111111	HMT325R7EFR8C-PB	FBGA(78ball)	1	30mm	Now				
				HMT325R7CFR8C-H9	FBGA(78ball)	1	30mm	Now				
			1333-999	HMT325R7EFR8C-H9	FBGA(78ball)	1	30mm	Now				
				HMT325R7CFR8C-H9	FBGA(78ball)	1	30mm	Now				

▪ RDIMM (VDD=1.35V)

VDD	MODULE		BASED COM.	SPEED	PART NUMBER	COMPONENT PKG.	#OF RANK	HEIGHT	AVAIL.				
	DENSITY	ORG.											
1.35V	32GB	4Gx72	2Gx4 (DDP)	1600-111111	HMT84GR7AMR4A-PB	FBGA(78ball)	4	30mm	Now				
					HMT84GR7BMR4A-PB	FBGA(78ball)	4	30mm	Q1'14				
					1333-999	HMT84GR7MMR4A-H9	FBGA(78ball)	4	30mm	Now			
						HMT84GR7AMR4A-H9	FBGA(78ball)	4	30mm	Now			
						HMT84GR7BMR4A-H9	FBGA(78ball)	4	30mm	Q1'14			
				1066-777	HMT84GR7MMR4A-G7	FBGA(78ball)	4	30mm	Now				
					HMT84GR7AMR4A-G7	FBGA(78ball)	4	30mm	Now				
					HMT84GR7BMR4A-G7	FBGA(78ball)	4	30mm	Q1'14				
					16GB	2Gx72	1Gx4	1866-131313	HMT42GR7AFR4A-RD	FBGA(78ball)	2	30mm	Now
									HMT42GR7BFR4A-RD	FBGA(78ball)	2	30mm	Q1'14
	1600-111111	HMT42GR7MFR4A-PB	FBGA(78ball)	2					30mm	Now			
		HMT42GR7AFR4A-PB	FBGA(78ball)	2					30mm	Now			
		HMT42GR7BFR4A-PB	FBGA(78ball)	2					30mm	Q1'14			
	1333-999	HMT42GR7MFR4A-H9	FBGA(78ball)	2				30mm	Now				
		HMT42GR7AFR4A-H9	FBGA(78ball)	2				30mm	Now				
		HMT42GR7BFR4A-H9	FBGA(78ball)	2				30mm	Q1'14				
		1Gx4 (DDP)	1333-999	1Gx4 (DDP)				HMT42GR7CMR4A-H9	FBGA(78ball)	4	30mm	Now	
								HMT42GR7CMR4A-G7	FBGA(78ball)	4	30mm	Now	
	8GB				1Gx72	1Gx4	1866-131313	HMT41GR7AFR4A-RD	FBGA(78ball)	1	30mm	Now	
								HMT41GR7BFR4A-RD	FBGA(78ball)	1	30mm	Q1'14	
								1600-111111	HMT41GR7MFR4A-PB	FBGA(78ball)	1	30mm	Now
		HMT41GR7AFR4A-PB	FBGA(78ball)	1					30mm	Now			
		HMT41GR7BFR4A-PB	FBGA(78ball)	1					30mm	Q1'14			
		1333-999	HMT41GR7MFR4A-H9	FBGA(78ball)			1	30mm	Now				
			HMT41GR7AFR4A-H9	FBGA(78ball)			1	30mm	Now				
			HMT41GR7BFR4A-H9	FBGA(78ball)			1	30mm	Q1'14				
			512Mx8	512Mx8			512Mx8	1866-131313	HMT41GR7AFR8A-RD	FBGA(78ball)	2	30mm	Now
									HMT41GR7BFR8A-RD	FBGA(78ball)	2	30mm	Q1'14
	1600-111111	HMT41GR7MFR8A-PB			FBGA(78ball)	2			30mm	Now			
		HMT41GR7AFR8A-PB			FBGA(78ball)	2			30mm	Now			
HMT41GR7BFR8A-PB		FBGA(78ball)			2	30mm			Q1'14				
1333-999	HMT41GR7MFR8A-H9	FBGA(78ball)			2	30mm		Now					
	HMT41GR7AFR8A-H9	FBGA(78ball)			2	30mm		Now					
	HMT41GR7BFR8A-H9	FBGA(78ball)			2	30mm		Q1'14					
	512Mx4	512Mx4			512Mx4	1600-111111		HMT31GR7CFR4A-PB	FBGA(78ball)	2	30mm	Now	
								HMT31GR7EFR4A-PB	FBGA(78ball)	2	30mm	Now	
HMT31GR7CFR4A-H9			FBGA(78ball)	2			30mm	Now					
HMT31GR7EFR4A-H9			FBGA(78ball)	2			30mm	Now					
1333-999			HMT31GR7CFR8A-PB	FBGA(78ball)			2	30mm	Now				
			HMT31GR7EFR8A-PB	FBGA(78ball)		2	30mm	Now					
			HMT31R7CFR8A-H9	FBGA(78ball)		2	30mm	Now					
			HMT31R7EFR8A-H9	FBGA(78ball)		2	30mm	Now					
			4GB	512Mx72		512Mx8	1866-131313	HMT451R7AFR8A-RD	FBGA(78ball)	1	30mm	Now	
HMT451R7BFR8A-RD								FBGA(78ball)	1	30mm	Q1'14		
1600-111111	HMT451R7AFR8A-PB	FBGA(78ball)			1			30mm	Now				
	HMT451R7BFR8A-PB	FBGA(78ball)			1			30mm	Q1'14				
	1333-999	HMT451R7AFR8A-H9			FBGA(78ball)			1	30mm	Now			
HMT451R7BFR8A-H9		FBGA(78ball)			1		30mm	Q1'14					
512Mx4		512Mx4			512Mx4		1600-111111	HMT351R7CFR4A-PB	FBGA(78ball)	1	30mm	Now	
								HMT351R7EFR4A-PB	FBGA(78ball)	1	30mm	Now	
								HMT351R7CFR4A-H9	FBGA(78ball)	1	30mm	Now	
	HMT351R7EFR4A-H9							FBGA(78ball)	1	30mm	Now		
	1333-999		HMT351R7CFR8A-PB	FBGA(78ball)		2		30mm	Now				
			HMT351R7EFR8A-PB	FBGA(78ball)		2	30mm	Now					
			HMT351R7CFR8A-H9	FBGA(78ball)		2	30mm	Now					
			HMT351R7EFR8A-H9	FBGA(78ball)		2	30mm	Now					
			2GB	256Mx72		256Mx8	1600-111111	HMT325R7CFR8A-PB	FBGA(78ball)	1	30mm	Now	
	HMT325R7EFR8A-PB							FBGA(78ball)	1	30mm	Now		
1333-999	HMT325R7CFR8A-H9	FBGA(78ball)			1			30mm	Now				
	HMT325R7EFR8A-H9	FBGA(78ball)			1			30mm	Now				
	HMT325R7CFR8A-H9	FBGA(78ball)			1			30mm	Now				

Computing Memory

DDR3 SDRAM : Module



▪ VLP RDIMM (VDD=1.5V)

VDD	MODULE		BASED COM.	SPEED	PART NUMBER	COMPONENT PKG.	#OF RANK	HEIGHT	AVAIL.	
	DENSITY	ORG.								
1.5V	32GB	4Gx72	4Gx4 (QDP)	1600-111111	HMTA4GV7AHR4C-PB	FBGA(82ball)	4	18.75mm	Aug'13	
					HMTA4GV7BHR4C-PB	FBGA(82ball)	4	18.75mm	Q2'14	
				1333-999	HMTA4GV7MHR4C-H9	FBGA(82ball)	4	18.75mm	Now	
					HMTA4GV7AHR4C-H9	FBGA(82ball)	4	18.75mm	Aug'13	
				1066-777	HMTA4GV7MHR4C-G7	FBGA(82ball)	4	18.75mm	Now	
					HMTA4GV7AHR4C-G7	FBGA(82ball)	4	18.75mm	Aug'13	
	HMTA4GV7BHR4C-G7	FBGA(82ball)	4		18.75mm	Q2'14				
	16GB	2Gx72	2Gx4 (DDP)	1866-131313	HMT82GV7AMR4C-RD	FBGA(78ball)	2	18.75mm	Now	
					HMT82GV7BMR4C-RD	FBGA(78ball)	2	18.75mm	Q1'14	
				1600-111111	HMT82GV7MMR4C-PB	FBGA(78ball)	2	18.75mm	Now	
					HMT82GV7AMR4C-PB	FBGA(78ball)	2	18.75mm	Now	
					HMT82GV7BMR4C-PB	FBGA(78ball)	2	18.75mm	Q1'14	
				1333-999	HMT82GV7MMR4C-H9	FBGA(78ball)	2	18.75mm	Now	
					HMT82GV7AMR4C-H9	FBGA(78ball)	2	18.75mm	Now	
					HMT82GV7BMR4C-H9	FBGA(78ball)	2	18.75mm	Q1'14	
				1066-777	HMT82GV7MMR4C-G7	FBGA(78ball)	2	18.75mm	Now	
					HMT82GV7AMR4C-G7	FBGA(78ball)	2	18.75mm	Now	
					HMT82GV7BMR4C-G7	FBGA(78ball)	2	18.75mm	Q1'14	
				8GB	1Gx72	1Gx4	1866-131313	HMT41GV7AFR4C-RD	FBGA(78ball)	1
	HMT41GV7BFR4C-RD	FBGA(78ball)	1					18.75mm	Q1'14	
	1600-111111	HMT41GV7MFR4C-PB	FBGA(78ball)				1	18.75mm	Now	
		HMT41GV7AFR4C-PB	FBGA(78ball)				1	18.75mm	Now	
		HMT41GV7BFR4C-PB	FBGA(78ball)				1	18.75mm	Q1'14	
	1333-999	HMT41GV7MFR4C-H9	FBGA(78ball)				1	18.75mm	Now	
		HMT41GV7AFR4C-H9	FBGA(78ball)				1	18.75mm	Now	
		HMT41GV7BFR4C-H9	FBGA(78ball)				1	18.75mm	Q1'14	
	1Gx4 (DDP)	1600-111111	HMT41GV7CMR4C-PB				FBGA(78ball)	2	18.75mm	Now
		1333-999	HMT41GV7CMR4C-H9				FBGA(78ball)	2	18.75mm	Now
		1066-777	HMT41GV7CMR4C-G7				FBGA(78ball)	2	18.75mm	Now
	512Mx8	1866-131313	HMT41GV7AFR8C-RD				FBGA(78ball)	2	18.75mm	Now
			HMT41GV7BFR8C-RD			FBGA(78ball)	2	18.75mm	Q1'14	
			1600-111111			HMT41GV7MFR8C-PB	FBGA(78ball)	2	18.75mm	Now
						HMT41GV7AFR8C-PB	FBGA(78ball)	2	18.75mm	Now
HMT41GV7BFR8C-PB						FBGA(78ball)	2	18.75mm	Q1'14	
1333-999			HMT41GV7MFR8C-H9			FBGA(78ball)	2	18.75mm	Now	
		HMT41GV7AFR8C-H9	FBGA(78ball)			2	18.75mm	Now		
		HMT41GV7BFR8C-H9	FBGA(78ball)			2	18.75mm	Q1'14		
512Mx8 (DDP)		1333-999	HMT41GV7CMR8C-H9			FBGA(78ball)	4	18.75mm	Now	
		1066-777	HMT41GV7CMR8C-G7			FBGA(78ball)	4	18.75mm	Now	
4GB		512Mx72	512Mx8			1866-131313	HMT451V7AFR8C-RD	FBGA(78ball)	1	18.75mm
	HMT451V7BFR8C-RD						FBGA(78ball)	1	18.75mm	Q1'14
	1600-111111			HMT451V7AFR8C-PB	FBGA(78ball)	1	18.75mm	Now		
				HMT451V7BFR8C-PB	FBGA(78ball)	1	18.75mm	Q1'14		
				HMT451V7AFR8C-H9	FBGA(78ball)	1	18.75mm	Now		
	1333-999			HMT451V7BFR8C-H9	FBGA(78ball)	1	18.75mm	Q1'14		
				HMT451V7AFR8C-H9	FBGA(78ball)	1	18.75mm	Now		
				HMT451V7BFR8C-H9	FBGA(78ball)	1	18.75mm	Now		
	512Mx4			1866-131313	HMT351V7EFR4C-RD	FBGA(78ball)	1	18.75mm	Now	
					HMT351V7CFR4C-PB	FBGA(78ball)	1	18.75mm	Now	
					HMT351V7EFR4C-PB	FBGA(78ball)	1	18.75mm	Now	
				1333-999	HMT351V7CFR4C-H9	FBGA(78ball)	1	18.75mm	Now	
			HMT351V7EFR4C-H9		FBGA(78ball)	1	18.75mm	Now		
			HMT351V7CFR4C-H9		FBGA(78ball)	1	18.75mm	Now		
	256Mx8		1866-131313	HMT351V7EFR8C-RD	FBGA(78ball)	2	18.75mm	Now		
				HMT351V7CFR8C-PB	FBGA(78ball)	2	18.75mm	Now		
				HMT351V7EFR8C-PB	FBGA(78ball)	2	18.75mm	Now		
			1333-999	HMT351V7CFR8C-H9	FBGA(78ball)	2	18.75mm	Now		
				HMT351V7EFR8C-H9	FBGA(78ball)	2	18.75mm	Now		
				HMT351V7CFR8C-H9	FBGA(78ball)	2	18.75mm	Now		
	2GB		256Mx72	256Mx8	1866-131313	HMT325V7EFR8C-RD	FBGA(78ball)	1	18.75mm	Now
						HMT325V7CFR8C-PB	FBGA(78ball)	1	18.75mm	Now
					1600-111111	HMT325V7EFR8C-PB	FBGA(78ball)	1	18.75mm	Now
						HMT325V7CFR8C-H9	FBGA(78ball)	1	18.75mm	Now
1333-999		HMT325V7CFR8C-H9			FBGA(78ball)	1	18.75mm	Now		
		HMT325V7EFR8C-H9			FBGA(78ball)	1	18.75mm	Now		
		HMT325V7CFR8C-H9			FBGA(78ball)	1	18.75mm	Now		
		HMT325V7EFR8C-H9			FBGA(78ball)	1	18.75mm	Now		

Computing Memory

DDR3 SDRAM : Module



▪ VLP RDIMM (VDD=1.35V)

VDD	MODULE		BASED COM.	SPEED	PART NUMBER	COMPONENT PKG.	#OF RANK	HEIGHT	AVAIL.			
	DENSITY	ORG.										
1.35V	32GB	4Gx72	4Gx4 (QDP)	1333-999	HMTA4GV7AHR4A-H9	FBGA(82ball)	4	18.75mm	Aug'13			
					HMTA4GV7BHR4A-H9	FBGA(82ball)	4	18.75mm	Q2'14			
				1066-777	HMTA4GV7MHR4A-G7	FBGA(82ball)	4	18.75mm	Now			
					HMTA4GV7AHR4A-G7	FBGA(82ball)	4	18.75mm	Aug'13			
	16GB	2Gx72	2Gx4 (DDP)	1600-111111	HMT82GV7MMR4A-PB	FBGA(78ball)	2	18.75mm	Now			
					HMT82GV7AMR4A-PB	FBGA(78ball)	2	18.75mm	Now			
					HMT82GV7BMR4A-PB	FBGA(78ball)	2	18.75mm	Q1'14			
				1333-999	HMT82GV7MMR4A-H9	FBGA(78ball)	2	18.75mm	Now			
					HMT82GV7AMR4A-H9	FBGA(78ball)	2	18.75mm	Now			
					HMT82GV7BMR4A-H9	FBGA(78ball)	2	18.75mm	Q1'14			
				1066-777	HMT82GV7MMR4A-G7	FBGA(78ball)	2	18.75mm	Now			
					HMT82GV7AMR4A-G7	FBGA(78ball)	2	18.75mm	Now			
					HMT82GV7BMR4A-G7	FBGA(78ball)	2	18.75mm	Q1'14			
				8GB	1Gx72	1Gx4	1866-131313	HMT41GV7AFR4A-RD	FBGA(78ball)	1	18.75mm	Now
								HMT41GV7BFR4A-RD	FBGA(78ball)	1	18.75mm	Q1'14
							1600-111111	HMT41GV7MFR4A-PB	FBGA(78ball)	1	18.75mm	Now
	HMT41GV7AFR4A-PB	FBGA(78ball)	1					18.75mm	Now			
	1333-999	HMT41GV7MFR4A-H9	FBGA(78ball)				1	18.75mm	Now			
		HMT41GV7AFR4A-H9	FBGA(78ball)				1	18.75mm	Now			
		HMT41GV7BFR4A-H9	FBGA(78ball)				1	18.75mm	Q1'14			
	1Gx4 (DDP)	1333-999	HMT41GV7CMR4A-H9				FBGA(78ball)	2	18.75mm	Now		
		1066-777	HMT41GV7CMR4A-G7				FBGA(78ball)	2	18.75mm	Now		
	512Mx8	1866-131313	HMT41GV7AFR8A-RD				FBGA(78ball)	2	18.75mm	Now		
							FBGA(78ball)	2	18.75mm	Q1'14		
			1600-111111				HMT41GV7MFR8A-PB	FBGA(78ball)	2	18.75mm	Now	
						HMT41GV7AFR8A-PB	FBGA(78ball)	2	18.75mm	Now		
			HMT41GV7BFR8A-PB			FBGA(78ball)	2	18.75mm	Q1'14			
						FBGA(78ball)	2	18.75mm	Now			
			1333-999			HMT41GV7MFR8A-H9	FBGA(78ball)	2	18.75mm	Now		
						HMT41GV7AFR8A-H9	FBGA(78ball)	2	18.75mm	Now		
	512Mx8 (DDP)	1333-999	HMT41GV7CMR8A-H9			FBGA(78ball)	4	18.75mm	Now			
		1066-777	HMT41GV7CMR8A-G7			FBGA(78ball)	4	18.75mm	Now			
	4GB	512Mx72	512Mx8			1866-131313	HMT451V7AFR8A-RD	FBGA(78ball)	1	18.75mm	Now	
				HMT451V7BFR8A-RD	FBGA(78ball)		1	18.75mm	Q1'14			
				1600-111111	HMT451V7AFR8A-PB	FBGA(78ball)	1	18.75mm	Now			
					HMT451V7BFR8A-PB	FBGA(78ball)	1	18.75mm	Q1'14			
				1333-999	HMT451V7AFR8A-H9	FBGA(78ball)	1	18.75mm	Now			
					HMT451V7BFR8A-H9	FBGA(78ball)	1	18.75mm	Q1'14			
				512Mx4	1600-111111	HMT351V7CFR4A-PB	FBGA(78ball)	1	18.75mm	Now		
						HMT351V7EFR4A-PB	FBGA(78ball)	1	18.75mm	Now		
1333-999			HMT351V7CFR4A-H9		FBGA(78ball)	1	18.75mm	Now				
			HMT351V7EFR4A-H9		FBGA(78ball)	1	18.75mm	Now				
256Mx8			1600-111111	HMT351V7CFR8A-PB	FBGA(78ball)	2	18.75mm	Now				
				HMT351V7EFR8A-PB	FBGA(78ball)	2	18.75mm	Now				
			1333-999	HMT351V7CFR8A-H9	FBGA(78ball)	2	18.75mm	Now				
				HMT351V7EFR8A-H9	FBGA(78ball)	2	18.75mm	Now				
2GB			256Mx72	256Mx8	1600-111111	HMT325V7CFR8A-PB	FBGA(78ball)	1	18.75mm	Now		
						HMT325V7EFR8A-PB	FBGA(78ball)	1	18.75mm	Now		
	1333-999	HMT325V7CFR8A-H9			FBGA(78ball)	1	18.75mm	Now				
		HMT325V7EFR8A-H9			FBGA(78ball)	1	18.75mm	Now				

▪ LRDIMM

VDD	MODULE		BASED COM.	SPEED	PART NUMBER	PACKAGE	RANK	HEIGHT	Availability
	DENSITY	ORG.							
1.5V	64GB	8Gx72	4Gx4 (QDP)	1600-111111	HMTA8GL7MHR4C-PB	FBGA(82ball)	4	30.35mm	Now
					HMTA8GL7AHR4C-PB	FBGA(82ball)	4	30.35mm	Aug'13
					HMTA8GL7BHR4C-PB	FBGA(82ball)	4	30.35mm	Q2'14
				1333-999	HMTA8GL7MHR4C-H9	FBGA(82ball)	4	30.35mm	Now
					HMTA8GL7AHR4C-H9	FBGA(82ball)	4	30.35mm	Aug'13
					HMTA8GL7BHR4C-H9	FBGA(82ball)	4	30.35mm	Q2'14
	32GB	4Gx72	2Gx4 (DDP)	1866-131313	HMT84GL7AMR4C-RD	FBGA(78ball)	4	30.35mm	Now
					HMT84GL7BMR4C-RD	FBGA(78ball)	4	30.35mm	Q1'14
				1600-111111	HMT84GL7AMR4C-PB	FBGA(78ball)	4	30.35mm	Now
					HMT84GL7BMR4C-PB	FBGA(78ball)	4	30.35mm	Q1'14
				1333-999	HMT84GL7MMR4C-H9	FBGA(78ball)	4	30.35mm	Now
					HMT84GL7AMR4C-H9	FBGA(78ball)	4	30.35mm	Now
1.35V	64GB	8Gx72	4Gx4 (QDP)	1600-111111	HMTA8GL7AHR4A-PB	FBGA(82ball)	4	30.35mm	Aug'13
					HMTA8GL7BHR4A-PB	FBGA(82ball)	4	30.35mm	Q2'14
				1333-999	HMTA8GL7MHR4A-H9	FBGA(82ball)	4	30.35mm	Now
					HMTA8GL7AHR4A-H9	FBGA(82ball)	4	30.35mm	Aug'13
					HMTA8GL7BHR4A-H9	FBGA(82ball)	4	30.35mm	Q2'14
				32GB	4Gx72	2Gx4 (DDP)	1333-999	HMT84GL7MMR4A-H9	FBGA(78ball)
	HMT84GL7AMR4A-H9	FBGA(78ball)	4					30.35mm	Now
	HMT84GL7BMR4A-H9	FBGA(78ball)	4					30.35mm	Q1'14

▪ SODIMM

VDD	MODULE		BASED COM.	SPEED	PART NUMBER	COMPONENT PKG.	#OF RANK	HEIGHT	AVAIL.		
	DENSITY	ORG.									
1.5V	8GB	1Gx64	512Mx8	1866-131313	HMT41GS6AFR8C-RD	FBGA(78ball)	2	30mm	Now		
					HMT41GS6BFR8C-RD	FBGA(78ball)	2	30mm	Q4'13		
				1600-111111	HMT41GS6MFR8C-PB	FBGA(78ball)	2	30mm	Now		
					HMT41GS6AFR8C-PB	FBGA(78ball)	2	30mm	Now		
				1333-999	HMT41GS6BFR8C-PB	FBGA(78ball)	2	30mm	Q4'13		
					HMT41GS6MFR8C-H9	FBGA(78ball)	2	30mm	Now		
			4GB	512Mx64	512Mx8	1866-131313	HMT41GS6AFR8C-H9	FBGA(78ball)	2	30mm	Now
							HMT41GS6BFR8C-H9	FBGA(78ball)	2	30mm	Q4'13
						1600-111111	HMT451S6AFR8C-RD	FBGA(78ball)	1	30mm	Now
							HMT451S6MFR8C-PB	FBGA(78ball)	1	30mm	Now
						1333-999	HMT451S6AFR8C-PB	FBGA(78ball)	1	30mm	Now
							HMT451S6BFR8C-PB	FBGA(78ball)	1	30mm	Q4'13
	256Mx16	512Mx64	512Mx8	1866-131313	HMT451S6MFR8C-H9	FBGA(78ball)	1	30mm	Now		
					HMT451S6AFR8C-H9	FBGA(78ball)	1	30mm	Now		
				1600-111111	HMT451S6AFR6C-RD	FBGA(78ball)	2	30mm	Now		
					HMT451S6AFR6C-PB	FBGA(78ball)	2	30mm	Now		
				1333-999	HMT451S6AFR6C-H9	FBGA(78ball)	2	30mm	Now		
					HMT451S6BFR8C-H9	FBGA(78ball)	1	30mm	Q4'13		
	256Mx8	512Mx64	512Mx8	1600-111111	HMT351S6CFR8C-PB	FBGA(78ball)	2	30mm	Now		
					HMT351S6EFR8C-PB	FBGA(78ball)	2	30mm	Now		
				1333-999	HMT351S6CFR8C-H9	FBGA(78ball)	2	30mm	Now		
					HMT351S6EFR8C-H9	FBGA(78ball)	2	30mm	Now		
				1600-111111	HMT351S6CFR8C-H9	FBGA(78ball)	2	30mm	Now		
					HMT351S6EFR8C-H9	FBGA(78ball)	2	30mm	Now		
	2GB	256Mx64	256Mx16	1866-131313	HMT425S6AFR6C-RD	FBGA(78ball)	1	30mm	Now		
					HMT425S6AFR6C-PB	FBGA(78ball)	1	30mm	Now		
					HMT425S6AFR6C-H9	FBGA(78ball)	1	30mm	Now		
				1600-111111	HMT325S6CFR8C-PB	FBGA(78ball)	1	30mm	Now		
					HMT325S6EFR8C-PB	FBGA(78ball)	1	30mm	Now		
					HMT325S6CFR8C-H9	FBGA(78ball)	1	30mm	Now		
1333-999			HMT325S6EFR8C-H9	FBGA(78ball)	1	30mm	Now				
			128Mx16	1600-111111	HMT325S6DFR6C-PB	FBGA(96ball)	2	30mm	Now		
				HMT325S6DFR6C-H9	FBGA(96ball)	2	30mm	Now			
1GB			128Mx64	128Mx16	1600-111111	HMT312S6DFR6C-PB	FBGA(96ball)	1	30mm	Now	
					1333-999	HMT312S6DFR6C-H9	FBGA(96ball)	1	30mm	Now	
					1600-111111	HMT41GS6MFR8A-PB	FBGA(78ball)	2	30mm	Now	
	HMT41GS6AFR8A-PB	FBGA(78ball)				2	30mm	Q4'13			
	1333-999	HMT41GS6MFR8A-H9			FBGA(78ball)	2	30mm	Now			
		HMT41GS6AFR8A-H9			FBGA(78ball)	2	30mm	Now			
1.35V	8GB	1Gx64	512Mx8	1600-111111	HMT41GS6MFR8A-PB	FBGA(78ball)	2	30mm	Now		
					HMT41GS6BFR8A-PB	FBGA(78ball)	2	30mm	Q4'13		
				1333-999	HMT41GS6MFR8A-H9	FBGA(78ball)	2	30mm	Now		
					HMT41GS6AFR8A-H9	FBGA(78ball)	2	30mm	Now		
				1600-111111	HMT41GS6BFR8A-H9	FBGA(78ball)	2	30mm	Q4'13		
					HMT41GS6MFR8A-PB	FBGA(78ball)	1	30mm	Now		
			4GB	512Mx64	512Mx8	1600-111111	HMT451S6AFR8A-PB	FBGA(78ball)	1	30mm	Now
							HMT451S6BFR8A-PB	FBGA(78ball)	1	30mm	Now
						1333-999	HMT451S6MFR8A-H9	FBGA(78ball)	1	30mm	Now
							HMT451S6AFR8A-H9	FBGA(78ball)	1	30mm	Now
						1600-111111	HMT451S6BFR8A-H9	FBGA(78ball)	1	30mm	Q4'13
							HMT451S6MFR8A-PB	FBGA(78ball)	1	30mm	Now
	256Mx16	512Mx64	512Mx8	1600-111111	HMT451S6AFR6A-PB	FBGA(78ball)	2	30mm	Now		
					HMT451S6AFR6A-H9	FBGA(78ball)	2	30mm	Now		
				1333-999	HMT351S6CFR8A-PB	FBGA(78ball)	2	30mm	Now		
					HMT351S6EFR8A-PB	FBGA(78ball)	2	30mm	Now		
				1600-111111	HMT351S6CFR8A-H9	FBGA(78ball)	2	30mm	Now		
					HMT351S6EFR8A-H9	FBGA(78ball)	2	30mm	Now		
	2GB	256Mx64	256Mx16	1600-111111	HMT425S6AFR6A-PB	FBGA(78ball)	1	30mm	Now		
					HMT425S6AFR6A-H9	FBGA(78ball)	1	30mm	Now		
					HMT325S6CFR8A-PB	FBGA(78ball)	1	30mm	Now		
				1333-999	HMT325S6EFR8A-PB	FBGA(78ball)	1	30mm	Now		
					HMT325S6CFR8A-H9	FBGA(78ball)	1	30mm	Now		
					HMT325S6EFR8A-H9	FBGA(78ball)	1	30mm	Now		
	128Mx16	256Mx64	256Mx16	1600-111111	HMT325S6DFR6A-PB	FBGA(96ball)	2	30mm	Now		
					HMT325S6DFR6A-H9	FBGA(96ball)	2	30mm	Now		
				1333-999	HMT312S6DFR6A-PB	FBGA(96ball)	1	30mm	Now		
					HMT312S6DFR6A-H9	FBGA(96ball)	1	30mm	Now		
				1600-111111	HMT312S6DFR6A-PB	FBGA(96ball)	1	30mm	Now		
					HMT312S6DFR6A-H9	FBGA(96ball)	1	30mm	Now		

Consumer & Network Memory

DDR3 SDRAM



DENSITY	ORG.	SPEED	PART NUMBER	PKG.	FEATURE	AVAIL.			
4Gb	512Mx8	DDR3 2133	H5TQ4G83AFR-TEC	FBGA(78ball)	8Bank, 1.5V, CL14,14-14-14	Now			
			H5TQ4G83AFR-RDC	FBGA(78ball)	8Bank, 1.5V, CL13,13-13-13	Now			
		DDR3 1866	H5TQ4G83MFR-RDC	FBGA(78ball)	8Bank, 1.5V, CL13,13-13-13	Now			
			H5TC4G83AFR-RDC	FBGA(78ball)	8Bank, 1.35V, CL13,13-13-13	Now			
			H5TQ4G83AFR-PBC	FBGA(78ball)	8Bank, 1.5V, CL11,11-11-11	Now			
		DDR3 1600	H5TQ4G83MFR-PBC	FBGA(78ball)	8Bank, 1.5V, CL11,11-11-11	Now			
			H5TC4G83AFR-PBC	FBGA(78ball)	8Bank, 1.35V, CL11,11-11-11	Now			
			H5TC4G83MFR-PBC	FBGA(78ball)	8Bank, 1.35V, CL11,11-11-11	Now			
		DDR3 1333	H5TQ4G83AFR-H9C	FBGA(78ball)	8Bank, 1.5V, CL9,9-9-9	Now			
			H5TQ4G83MFR-H9C	FBGA(78ball)	8Bank, 1.5V, CL9,9-9-9	Now			
			H5TC4G83AFR-H9C	FBGA(78ball)	8Bank, 1.35V, CL9,9-9-9	Now			
		DDR3 1066	H5TC4G83MFR-H9C	FBGA(78ball)	8Bank, 1.35V, CL9,9-9-9	Now			
			H5TQ4G83AFR-G7C	FBGA(78ball)	8Bank, 1.5V, CL7,7-7-7	Now			
			H5TQ4G83MFR-G7C	FBGA(78ball)	8Bank, 1.5V, CL7,7-7-7	Now			
		256x16	DDR3 2133	H5TQ4G63AFR-TEC	FBGA(96ball)	8Bank, 1.5V, CL14,14-14-14	Now		
				H5TQ4G63AFR-RDC	FBGA(96ball)	8Bank, 1.5V, CL13,13-13-13	Now		
			DDR3 1866	H5TQ4G63MFR-RDC	FBGA(96ball)	8Bank, 1.5V, CL13,13-13-13	Now		
				H5TC4G63AFR-RDC	FBGA(96ball)	8Bank, 1.35V, CL13,13-13-13	Now		
	H5TC4G63MFR-RDC			FBGA(96ball)	8Bank, 1.35V, CL13,13-13-13	Now			
	DDR3 1600		H5TQ4G63AFR-PBC	FBGA(96ball)	8Bank, 1.5V, CL11,11-11-11	Now			
			H5TQ4G63MFR-PBC	FBGA(96ball)	8Bank, 1.5V, CL11,11-11-11	Now			
			H5TC4G63AFR-PBC	FBGA(96ball)	8Bank, 1.35V, CL11,11-11-11	Now			
	DDR3 1333		H5TC4G63MFR-PBC	FBGA(96ball)	8Bank, 1.35V, CL11,11-11-11	Now			
			H5TQ4G63AFR-H9C	FBGA(96ball)	8Bank, 1.5V, CL9,9-9-9	Now			
			H5TQ4G63MFR-H9C	FBGA(96ball)	8Bank, 1.5V, CL9,9-9-9	Now			
	DDR3 1066		H5TC4G63AFR-H9C	FBGA(96ball)	8Bank, 1.35V, CL9,9-9-9	Now			
			H5TQ4G63AFR-G7C	FBGA(96ball)	8Bank, 1.5V, CL7,7-7-7	Now			
			H5TQ4G63MFR-G7C	FBGA(96ball)	8Bank, 1.5V, CL7,7-7-7	Now			
	2Gb		256Mx8	DDR3 2133	H5TQ2G83FFR-TEC	FBGA(78ball)	8Bank, 1.5V, CL14,14-14-14	Now	
					H5TQ2G83DFR-TEC	FBGA(78ball)	8Bank, 1.5V, CL14,14-14-14	Now	
				DDR3 1866	H5TQ2G83FFR-RDC	FBGA(78ball)	8Bank, 1.5V, CL13,13-13-13	Now	
					H5TQ2G83DFR-RDC	FBGA(78ball)	8Bank, 1.5V, CL13,13-13-13	Now	
		H5TC2G83FFR-RDC			FBGA(78ball)	8Bank, 1.35V, CL13,13-13-13	Now		
		DDR3 1600		H5TC2G83DFR-RDC	FBGA(78ball)	8Bank, 1.35V, CL13,13-13-13	Now		
				H5TQ2G83FFR-PBC	FBGA(78ball)	8Bank, 1.5V, CL11,11-11-11	Now		
				H5TQ2G83DFR-PBC	FBGA(78ball)	8Bank, 1.5V, CL11,11-11-11	Now		
		DDR3 1333		H5TC2G83FFR-PBC	FBGA(78ball)	8Bank, 1.35V, CL11,11-11-11	Now		
				H5TC2G83DFR-PBC	FBGA(78ball)	8Bank, 1.35V, CL11,11-11-11	Now		
				H5TQ2G83FFR-H9C	FBGA(78ball)	8Bank, 1.5V, CL9,9-9-9	Now		
		DDR3 1066		H5TQ2G83DFR-H9C	FBGA(78ball)	8Bank, 1.5V, CL9,9-9-9	Now		
				H5TC2G83FFR-H9C	FBGA(78ball)	8Bank, 1.35V, CL9,9-9-9	Now		
				H5TC2G83DFR-H9C	FBGA(78ball)	8Bank, 1.35V, CL9,9-9-9	Now		
		128x16		128x16	DDR3 2133	H5TQ2G63FFR-TEC	FBGA(96ball)	8Bank, 1.5V, CL14,14-14-14	Now
						H5TQ2G63DFR-TEC	FBGA(96ball)	8Bank, 1.5V, CL14,14-14-14	Now
					DDR3 1866	H5TQ2G63FFR-RDC	FBGA(96ball)	8Bank, 1.5V, CL13,13-13-13	Now
						H5TQ2G63DFR-RDC	FBGA(96ball)	8Bank, 1.5V, CL13,13-13-13	Now
	H5TC2G63FFR-RDC		FBGA(96ball)			8Bank, 1.35V, CL13,13-13-13	Now		
	DDR3 1600		H5TC2G63DFR-RDC		FBGA(96ball)	8Bank, 1.35V, CL13,13-13-13	Now		
H5TQ2G63FFR-RBC			FBGA(96ball)		8Bank, 1.5V, CL11,11-11-11	Now			
H5TQ2G63DFR-PBC			FBGA(96ball)		8Bank, 1.5V, CL11,11-11-11	Now			
DDR3 1333	H5TC2G63FFR-RBC		FBGA(96ball)		8Bank, 1.35V, CL11,11-11-11	Now			
	H5TC2G63DFR-PBC		FBGA(96ball)		8Bank, 1.35V, CL11,11-11-11	Now			
	H5TQ2G63FFR-H9C		FBGA(96ball)		8Bank, 1.5V, CL9,9-9-9	Now			
DDR3 1066	H5TQ2G63DFR-H9C		FBGA(96ball)		8Bank, 1.5V, CL9,9-9-9	Now			
	H5TC2G63FFR-H9C		FBGA(96ball)		8Bank, 1.35V, CL9,9-9-9	Now			
	H5TC2G63DFR-H9C		FBGA(96ball)		8Bank, 1.35V, CL9,9-9-9	Now			
DDR3 1066	H5TQ2G63FFR-G7C		FBGA(96ball)		8Bank, 1.5V, CL7,7-7-7	Now			
	H5TQ2G63DFR-G7C		FBGA(96ball)		8Bank, 1.5V, CL7,7-7-7	Now			
	H5TC2G63FFR-G7C		FBGA(96ball)		8Bank, 1.35V, CL7,7-7-7	Now			

Consumer & Network Memory

DDR3 SDRAM



DENSITY	ORG.	SPEED	PART NUMBER	PKG.	FEATURE	AVAIL.
1Gb	128Mx8	DDR3 2133	H5TQ1G83EFR-TEC	FBGA(78ball)	8Bank, 1.5V, CL14,14-14-14	Now
			H5TQ1G83DFR-TEC	FBGA(78ball)	8Bank, 1.5V, CL14,14-14-14	Now
		DDR3 1866	H5TQ1G83EFR-RDC	FBGA(78ball)	8Bank, 1.5V, CL13,13-13-13	Now
			H5TQ1G83DFR-RDC	FBGA(78ball)	8Bank, 1.5V, CL13,13-13-13	Now
			H5TC1G83EFR-RDC	FBGA(78ball)	8Bank, 1.35V, CL13,13-13-13	Now
		DDR3 1600	H5TQ1G83EFR-PBC	FBGA(78ball)	8Bank, 1.5V, CL11,11-11-11	Now
			H5TQ1G83DFR-PBC	FBGA(78ball)	8Bank, 1.5V, CL11,11-11-11	Now
			H5TC1G83EFR-PBC	FBGA(78ball)	8Bank, 1.35V, CL11,11-11-11	Now
		DDR3 1333	H5TQ1G83EFR-H9C	FBGA(78ball)	8Bank, 1.5V, CL9,9-9-9	Now
			H5TQ1G83DFR-H9C	FBGA(78ball)	8Bank, 1.5V, CL9,9-9-9	Now
			H5TC1G83EFR-H9C	FBGA(78ball)	8Bank, 1.35V, CL9,9-9-9	Now
		DDR3 1066	H5TQ1G83EFR-G7C	FBGA(78ball)	8Bank, 1.5V, CL7,7-7-7	Now
	H5TQ1G83DFR-G7C		FBGA(78ball)	8Bank, 1.5V, CL7,7-7-7	Now	
	H5TC1G83EFR-G7C		FBGA(78ball)	8Bank, 1.35V, CL7,7-7-7	Now	
	64Mx16	DDR3 2133	H5TQ1G63EFR-TEC	FBGA(96ball)	8Bank, 1.5V, CL14,14-14-14	Now
			H5TQ1G63DFR-TEC	FBGA(96ball)	8Bank, 1.5V, CL14,14-14-14	Now
		DDR3 1866	H5TQ1G63EFR-RDC	FBGA(96ball)	8Bank, 1.5V, CL13,13-13-13	Now
			H5TQ1G63DFR-RDC	FBGA(96ball)	8Bank, 1.5V, CL13,13-13-13	Now
			H5TC1G63EFR-RDC	FBGA(96ball)	8Bank, 1.35V, CL13,13-13-13	Now
		DDR3 1600	H5TQ1G63EFR-PBC	FBGA(96ball)	8Bank, 1.5V, CL11,11-11-11	Now
			H5TQ1G63DFR-PBC	FBGA(96ball)	8Bank, 1.5V, CL11,11-11-11	Now
			H5TC1G63EFR-PBC	FBGA(96ball)	8Bank, 1.35V, CL11,11-11-11	Now
		DDR3 1333	H5TQ1G63EFR-H9C	FBGA(96ball)	8Bank, 1.5V, CL9,9-9-9	Now
			H5TQ1G63DFR-H9C	FBGA(96ball)	8Bank, 1.5V, CL9,9-9-9	Now
H5TC1G63EFR-H9C			FBGA(96ball)	8Bank, 1.35V, CL9,9-9-9	Now	
DDR3 1066		H5TQ1G63EFR-G7C	FBGA(96ball)	8Bank, 1.5V, CL7,7-7-7	Now	
	H5TQ1G63DFR-G7C	FBGA(96ball)	8Bank, 1.5V, CL7,7-7-7	Now		
	H5TC1G63EFR-G7C	FBGA(96ball)	8Bank, 1.35V, CL7,7-7-7	Now		

Consumer & Network Memory

DDR2 SDRAM



DENSITY	ORG.	SPEED	PART NUMBER	PKG.	FEATURE	AVAIL.
1Gb	64Mx8	DDR2 1066	H5PS1G83JFR-G7	FBGA(60ball)	8Bank, 1.8V, 7-7-7	Now
		DDR2 800	H5PS1G83JFR-S5	FBGA(60ball)	8Bank, 1.8V, 5-5-5	Now
		DDR2 667	H5PS1G83JFR-Y5	FBGA(60ball)	8Bank, 1.8V, 5-5-5	Now
		DDR2 533	H5PS1G83JFR-C4	FBGA(60ball)	8Bank, 1.8V, 4-4-4	Now
	64Mx16	DDR2 1066	H5PS1G63JFR-G7	FBGA(84ball)	8Bank, 1.8V, 7-7-7	Now
		DDR2 800	H5PS1G63JFR-S5	FBGA(84ball)	8Bank, 1.8V, 5-5-5	Now
		DDR2 667	H5PS1G63JFR-Y5C	FBGA(84ball)	8Bank, 1.8V, 5-5-5	Now
		DDR2 533	H5PS1G63JFR-C4	FBGA(60ball)	8Bank, 1.8V, 4-4-4	Now
512Mb	64Mx8	DDR2 1066	H5PS5182GFR-G7	FBGA(60ball)	4Bank, 1.8V, 7-7-7	Now
		DDR2 800	H5PS5182GFR-S5	FBGA(60ball)	4Bank, 1.8V, 5-5-5	Now
		DDR2 667	H5PS5182GFR-Y5	FBGA(60ball)	4Bank, 1.8V, 5-5-5	Now
	32Mx16	DDR2 1066	H5PS5162GFR-G7	FBGA(84ball)	4Bank, 1.8V, 7-7-7	Now
		DDR2 800	H5PS5162GFR-S5	FBGA(84ball)	4Bank, 1.8V, 5-5-5	Now
		DDR2 667	H5PS5162GFR-Y5	FBGA(84ball)	4Bank, 1.8V, 5-5-5	Now
256Mb	16Mx16	DDR2 1066	H5PS2562GFR-G7	FBGA(84ball)	4Bank, 1.8V, 7-7-7	Now
		DDR2 800	H5PS2562GFR-S6	FBGA(84ball)	4Bank, 1.8V, 6-6-6	Now
		DDR2 667	H5PS2562GFR-Y5	FBGA(84ball)	4Bank, 1.8V, 5-5-5	Now

▪ GDDR5M SDRAM

DENSITY	ORG.	SPEED	PART NUMBER	PKG.	FEATURE	AVAIL.
4Gb	256Mx16	4.0Gbps	H5HQ4H63MFR-T0C	FBGA(96ball)	8Bank, 1.5V/1.5V	CS: Q3'13
		3.6Gbps	H5HC4H63MFR-N8C	FBGA(96ball)	8Bank, 1.35V/1.35V	CS: Q3'13
		3.6Gbps	H5HC4H63MFR-N6C	FBGA(96ball)	8Bank, 1.5V/1.5V	CS: Q3'13
		3.2Gbps		FBGA(96ball)	8Bank, 1.35V/1.35V	CS: Q3'13

▪ GDDR5 SDRAM

DENSITY	ORG.	SPEED	PART NUMBER	PKG.	FEATURE	AVAIL.
4Gb	128Mx32	7.0Gbps	H5GQ4H24MFR-R2C	FBGA(170ball)	16Bank, 1.55V/1.55V	Now
		5.5Gbps	H5GC4H24MFR-T3C	FBGA(170ball)	16Bank, 1.35V/1.35V	Now
		6.0Gbps	H5GC4H24MFR-T2C	FBGA(170ball)	16Bank, 1.5V/1.5V	Now
		5.0Gbps			16Bank, 1.35V/1.35V	Now
		5.0Gbps	H5GC4H24MFR-T0C	FBGA(170ball)	16Bank, 1.5V/1.5V	Now
		4.0Gbps			16Bank, 1.35V/1.35V	Now
2Gb	64Mx32	7.0Gbps	H5GQ2H24BFR-R2C	FBGA(170ball)	16Bank, 1.55V/1.55V	Now
		5.5Gbps	H5GC2H24BFR-T3C	FBGA(170ball)	16Bank, 1.35V/1.35V	Now
		6.0Gbps	H5GC2H24BFR-T2C	FBGA(170ball)	16Bank, 1.5V/1.5V	Now
		5.0Gbps		FBGA(170ball)	16Bank, 1.35V/1.35V	Now
		5.0Gbps	H5GC2H24BFR-T0C	FBGA(170ball)	16Bank, 1.5V/1.5V	Now
		4.0Gbps		FBGA(170ball)	16Bank, 1.35V/1.35V	Now
		7.0Gbps	H5GQ2H24AFR-R2C	FBGA(170ball)	16Bank, 1.6V/1.6V	Now
		6.0Gbps	H5GQ2H24AFR-R0C	FBGA(170ball)	16Bank, 1.5V/1.5V	Now
		5.0Gbps	H5GQ2H24AFR-T2C	FBGA(170ball)	16Bank, 1.5V/1.5V	Now
		5.0Gbps	H5GC2H24AFR-T2C	FBGA(170ball)	16Bank, 1.35V/1.35V	Now
		4.0Gbps	H5GC2H24AFR-T0C	FBGA(170ball)	16Bank, 1.35V/1.35V	Now

Graphics Memory

DDR3 SDRAM



DENSITY	ORG.	SPEED	PART NUMBER	PKG.	FEATURE	AVAIL.
4Gb	256Mx16	1.1GHz (0.9ns)	H5TQ4G63AFR-N1C	FBGA(96ball)	8Bank, 1.5V/1.5V	Now
		1.0GHz (1.0ns)	H5TC4G63AFR-11C	FBGA(96ball)	8Bank, 1.5V/1.5V	Now
		900MHz (1.1ns)		FBGA(96ball)	8Bank, 1.35V/1.35V	Now
		900MHz (1.1ns)	H5TQ4G63MFR-11C	FBGA(96ball)	8Bank, 1.5V/1.5V	Now
2Gb	128Mx16	1.1GHz (0.9ns)	H5TQ2G63FFR-N1C	FBGA(96ball)	8Bank, 1.5V/1.5V	Now
		1.0GHz (1.0ns)	H5TC2G63FFR-N0C	FBGA(96ball)	8Bank, 1.35V/1.35V	Now
		1.0GHz (1.0ns)	H5TC2G63FFR-11C	FBGA(96ball)	8Bank, 1.5V/1.5V	Now
		900MHz (1.1ns)		FBGA(96ball)	8Bank, 1.35V/1.35V	Now
		1.1GHz (0.9ns)	H5TQ2G63DFR-N1C	FBGA(96ball)	8Bank, 1.5V/1.5V	Now
		1.0GHz (1.0ns)	H5TQ2G63DFR-N0C	FBGA(96ball)	8Bank, 1.5V/1.5V	Now
		900MHz (1.1ns)	H5TQ2G63DFR-11C	FBGA(96ball)	8Bank, 1.5V/1.5V	Now
		1.0GHz (1.0ns)	H5TC2G63DFR-N0C	FBGA(96ball)	8Bank, 1.35V/1.35V	Now
		900MHz (1.1ns)	H5TC2G63DFR-11C	FBGA(96ball)	8Bank, 1.35V/1.35V	Now
1Gb	64Mx16	900MHz (1.1ns)	H5TQ1G63EFR-11C	FBGA(96ball)	8Bank, 1.5V/1.5V	Now

DENSITY	ORG.	SPEED	PART NUMBER	PKG.	FEATURE	AVAIL.	
2Gb	64M x 16	DDR400	H5MS2G62MFR-EBM	FBGA(60ball)	4Bank, 1.8V/1.8V	Now	
		DDR333	H5MS2G62MFR-J3M	FBGA(60ball)	4Bank, 1.8V/1.8V	Now	
		DDR400	H5MS2G62AFR-EBM	FBGA(60ball)	4Bank, 1.8V/1.8V	Now	
		DDR333	H5MS2G62AFR-J3M	FBGA(60ball)	4Bank, 1.8V/1.8V	Now	
	32M x 32	DDR400	H5MS2G22BFR-EBM	FBGA(90ball)	4Bank, 1.8V/1.8V	Now	
		DDR333	H5MS2G32BFR-J3M	FBGA(90ball)	4Bank, 1.8V/1.8V	Now	
		DDR400	H5MS2G22MFR-EBM	FBGA(90ball)	4Bank, 1.8V/1.8V	Now	
		DDR333	H5MS2G22MFR-J3M	FBGA(90ball)	4Bank, 1.8V/1.8V	Now	
		DDR400	H5MS2G22AFR-EBM	FBGA(90ball)	4Bank, 1.8V/1.8V	Now	
		DDR333	H5MS2G22AFR-J3M	FBGA(90ball)	4Bank, 1.8V/1.8V	Now	
	32M x 32 (reduced page size)	DDR400	H5MS2G32BFR-E3M	FBGA(90ball)	4Bank, 1.8V/1.8V	Now	
		DDR333	H5MS2G32BFR-J3M	FBGA(90ball)	4Bank, 1.8V/1.8V	Now	
		DDR400	H5MS2G32MFR-EBM	FBGA(90ball)	4Bank, 1.8V/1.8V	Now	
		DDR333	H5MS2G32MFR-J3M	FBGA(90ball)	4Bank, 1.8V/1.8V	Now	
		DDR400	H5MS2G32AFR-EBM	FBGA(90ball)	4Bank, 1.8V/1.8V	Now	
		DDR333	H5MS2G32AFR-J3M	FBGA(90ball)	4Bank, 1.8V/1.8V	Now	
	1Gb	64M x 16	DDR400	H5MS1G62AFR-E3M	FBGA(60ball)	4Bank, 1.8V/1.8V	Now
			DDR333	H5MS1G62AFR-J3M	FBGA(60ball)	4Bank, 1.8V/1.8V	Now
DDR400			H5MS1G62BFR-E3M	FBGA(60ball)	4Bank, 1.8V/1.8V	Now	
DDR333			H5MS1G62BFR-J3M	FBGA(60ball)	4Bank, 1.8V/1.8V	Now	
32M x 32		DDR400	H5MS1G22AFR-E3M	FBGA(90ball)	4Bank, 1.8V/1.8V	Now	
		DDR333	H5MS1G22AFR-J3M	FBGA(90ball)	4Bank, 1.8V/1.8V	Now	
		DDR400	H5MS1G22BFR-E3M	FBGA(90ball)	4Bank, 1.8V/1.8V	Now	
		DDR333	H5MS1G22BFR-J3M	FBGA(90ball)	4Bank, 1.8V/1.8V	Now	
32M x 32 (reduced page size)		DDR400	H5MS1G32AFR-E3M	FBGA(90ball)	4Bank, 1.8V/1.8V	Now	
		DDR333	H5MS1G32AFR-J3M	FBGA(90ball)	4Bank, 1.8V/1.8V	Now	
		DDR400	H5MS1G32BFR-E3M	FBGA(90ball)	4Bank, 1.8V/1.8V	Now	
		DDR333	H5MS1G32BFR-J3M	FBGA(90ball)	4Bank, 1.8V/1.8V	Now	

DENSITY	ORG.	SPEED	PART NUMBER	Package	FEATURE	Availability
512Mb	32M x 16	DDR400	H5MS5162DFR-E3M	FBGA(60ball)	4Bank, 1.8V/1.8V	Now
		DDR333	H5MS5162DFR-J3M	FBGA(60ball)	4Bank, 1.8V/1.8V	Now
		DDR400	H5MS5162EFR-E3M	FBGA(60ball)	4Bank, 1.8V/1.8V	Now
		DDR333	H5MS5162EFR-J3M	FBGA(60ball)	4Bank, 1.8V/1.8V	Now
		DDR400	H5MS5162FFR-E3M	FBGA(60ball)	4Bank, 1.8V/1.8V	Now
		DDR333	H5MS5162FFR-J3M	FBGA(60ball)	4Bank, 1.8V/1.8V	Now
	16M x 32	DDR400	H5MS5122DFR-E3M	FBGA(90ball)	4Bank, 1.8V/1.8V	Now
		DDR333	H5MS5122DFR-J3M	FBGA(90ball)	4Bank, 1.8V/1.8V	Now
		DDR400	H5MS5122EFR-E3M	FBGA(90ball)	4Bank, 1.8V/1.8V	Now
		DDR333	H5MS5122EFR-J3M	FBGA(90ball)	4Bank, 1.8V/1.8V	Now
		DDR400	H5MS5122FFR-E3M	FBGA(90ball)	4Bank, 1.8V/1.8V	Now
		DDR333	H5MS5122FFR-J3M	FBGA(90ball)	4Bank, 1.8V/1.8V	Now
	16M x 32 (reduced page size)	DDR400	H5MS5132DFR-E3M	FBGA(90ball)	4Bank, 1.8V/1.8V	Now
		DDR333	H5MS5132DFR-J3M	FBGA(90ball)	4Bank, 1.8V/1.8V	Now
		DDR400	H5MS5132EFR-E3M	FBGA(90ball)	4Bank, 1.8V/1.8V	Now
		DDR333	H5MS5132EFR-J3M	FBGA(90ball)	4Bank, 1.8V/1.8V	Now
		DDR400	H5MS5132FFR-E3M	FBGA(90ball)	4Bank, 1.8V/1.8V	Now
		DDR333	H5MS5132FFR-J3M	FBGA(90ball)	4Bank, 1.8V/1.8V	Now
256Mb	16M x 16	DDR400	H5MS2562JFR-E3M	FBGA(60ball)	4Bank, 1.8V/1.8V	Now
		DDR333	H5MS2562JFR-J3M	FBGA(60ball)	4Bank, 1.8V/1.8V	Now
		DDR400	H5MS2562NFR-E3M	FBGA(60ball)	4Bank, 1.8V/1.8V	Now
		DDR333	H5MS2562NFR-J3M	FBGA(60ball)	4Bank, 1.8V/1.8V	Now
	8M x 32	DDR400	H5MS2622JFR-E3M	FBGA(90ball)	4Bank, 1.8V/1.8V	Now
		DDR333	H5MS2622JFR-J3M	FBGA(90ball)	4Bank, 1.8V/1.8V	Now
		DDR400	H5MS2622NFR-E3M	FBGA(90ball)	4Bank, 1.8V/1.8V	Now
		DDR333	H5MS2622NFR-J3M	FBGA(90ball)	4Bank, 1.8V/1.8V	Now
	8M x 32 (reduced page size)	DDR400	H5MS2532JFR-E3M	FBGA(90ball)	4Bank, 1.8V/1.8V	Now
		DDR333	H5MS2532JFR-J3M	FBGA(90ball)	4Bank, 1.8V/1.8V	Now
		DDR400	H5MS2532NFR-E3M	FBGA(90ball)	4Bank, 1.8V/1.8V	Now
		DDR333	H5MS2532NFR-J3M	FBGA(90ball)	4Bank, 1.8V/1.8V	Now

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DENSITY	ORG.	SPEED	PART NUMBER	Package	FEATURE	Availability	
2Gb	64M x 16	166MHz	H55S2G62MFP-60M	FBGA(54ball)	4Bank, 1.8V/1.8V	Now	
		133MHz	H55S2G62MFP-75M	FBGA(54ball)	4Bank, 1.8V/1.8V	Now	
	32M x 32	166MHz	H55S2G22MFP-60M	FBGA(90ball)	4Bank, 1.8V/1.8V	Now	
		133MHz	H55S2G22MFP-75M	FBGA(90ball)	4Bank, 1.8V/1.8V	Now	
	32M x 32 (reduced page size)	166MHz	H55S2G32MFP-60M	FBGA(90ball)	4Bank, 1.8V/1.8V	Now	
		133MHz	H55S2G32MFP-75M	FBGA(90ball)	4Bank, 1.8V/1.8V	Now	
1Gb	64M x 16	166MHz	H55S1G62MFR-60M	FBGA(54ball)	4Bank, 1.8V/1.8V	Now	
		133MHz	H55S1G62MFR-75M	FBGA(54ball)	4Bank, 1.8V/1.8V	Now	
		166MHz	H55S1G62AFR-60M	FBGA(54ball)	4Bank, 1.8V/1.8V	Now	
		133MHz	H55S1G62AFR-75M	FBGA(54ball)	4Bank, 1.8V/1.8V	Now	
	32M x 32	166MHz	H55S1G22MFR-60M	FBGA(90ball)	4Bank, 1.8V/1.8V	Now	
		133MHz	H55S1G22MFR-75M	FBGA(90ball)	4Bank, 1.8V/1.8V	Now	
		166MHz	H55S1G22AFR-60M	FBGA(90ball)	4Bank, 1.8V/1.8V	Now	
		133MHz	H55S1G22AFR-75M	FBGA(90ball)	4Bank, 1.8V/1.8V	Now	
	32M x 32 (reduced page size)	166MHz	H55S1G32MFR-60M	FBGA(90ball)	4Bank, 1.8V/1.8V	Now	
		133MHz	H55S1G32MFR-60M	FBGA(90ball)	4Bank, 1.8V/1.8V	Now	
		166MHz	H55S1G32AFR-60M	FBGA(90ball)	4Bank, 1.8V/1.8V	Now	
		133MHz	H55S1G32AFR-60M	FBGA(90ball)	4Bank, 1.8V/1.8V	Now	
	512M	32M x 16	166MHz	H55S5162DFR-60M	FBGA(54ball)	4Bank, 1.8V/1.8V	Now
			133MHz	H55S5162DFR-75M	FBGA(54ball)	4Bank, 1.8V/1.8V	Now
166MHz			H55S5162EFR-60M	FBGA(54ball)	4Bank, 1.8V/1.8V	Now	
133MHz			H55S5162EFR-75M	FBGA(54ball)	4Bank, 1.8V/1.8V	Now	
16M x 32		166MHz	H55S5122DFR-60M	FBGA(90ball)	4Bank, 1.8V/1.8V	Now	
		133MHz	H55S5122DFR-75M	FBGA(90ball)	4Bank, 1.8V/1.8V	Now	
		166MHz	H55S5122EFR-60M	FBGA(90ball)	4Bank, 1.8V/1.8V	Now	
		133MHz	H55S5122EFR-75M	FBGA(90ball)	4Bank, 1.8V/1.8V	Now	
16M x 32 (reduced page size)		166MHz	H55S5132DFR-60M	FBGA(90ball)	4Bank, 1.8V/1.8V	Now	
		133MHz	H55S5132DFR-75M	FBGA(90ball)	4Bank, 1.8V/1.8V	Now	
		166MHz	H55S5132EFR-60M	FBGA(90ball)	4Bank, 1.8V/1.8V	Now	
		133MHz	H55S5132EFR-75M	FBGA(90ball)	4Bank, 1.8V/1.8V	Now	
256Mb	16M x 16	166MHz	H55S2562JFR-60M	FBGA(54ball)	4Bank, 1.8V/1.8V	Now	
		133MHz	H55S2562JFR-75M	FBGA(54ball)	4Bank, 1.8V/1.8V	Now	
		166MHz	H55S2562NFR-60M	FBGA(54ball)	4Bank, 1.8V/1.8V	Now	
		133MHz	H55S2562NFR-75M	FBGA(54ball)	4Bank, 1.8V/1.8V	Now	
	8M x 32	166MHz	H55S2622JFR-60M	FBGA(90ball)	4Bank, 1.8V/1.8V	Now	
		133MHz	H55S2622JFR-75M	FBGA(90ball)	4Bank, 1.8V/1.8V	Now	
		166MHz	H55S2622NFR-60M	FBGA(90ball)	4Bank, 1.8V/1.8V	Now	
		133MHz	H55S2622NFR-75M	FBGA(90ball)	4Bank, 1.8V/1.8V	Now	
	8M x 32 (reduced page size)	166MHz	H55S2532JFR-60M	FBGA(90ball)	4Bank, 1.8V/1.8V	Now	
		133MHz	H55S2532JFR-75M	FBGA(90ball)	4Bank, 1.8V/1.8V	Now	
		166MHz	H55S2532NFR-60M	FBGA(90ball)	4Bank, 1.8V/1.8V	Now	
		133MHz	H55S2532NFR-75M	FBGA(90ball)	4Bank, 1.8V/1.8V	Now	

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▪ LPDDR2

DENSITY	ORG.	SPEED	PART NUMBER	PKG.	FEATURE	AVAIL.
4Gb	128M x 32	DDR2-1066	H9TKNNN4GDARHR-NGM	FBGA(216ball)	8Bank, 1.8V/1.2V/1.2V	Now
		DDR2-800	H9TKNNN4GDARHR-NDM	FBGA(216ball)	8Bank, 1.8V/1.2V/1.2V	Now
		DDR2-1066	H9TKNNN4GDMPLR-NGM	FBGA(168ball)	8Bank, 1.8V/1.2V/1.2V	Now
		DDR2-800	H9TKNNN4GDMPLR-NDM	FBGA(168ball)	8Bank, 1.8V/1.2V/1.2V	Now
2Gb	64M x 32	DDR2-1066	H9TKNNN2GDAPLR-NGM	FBGA(168ball)	8Bank, 1.8V/1.2V/1.2V	Now
		DDR2-800	H9TKNNN2GDAPLR-NDM	FBGA(168ball)	8Bank, 1.8V/1.2V/1.2V	Now
		DDR2-800	H9TKNNN2GDMPLR-NDM	FBGA(168ball)	8Bank, 1.8V/1.2V/1.2V	Now
		DDR2-667	H9TKNNN2GDMPLR-NYM	FBGA(168ball)	8Bank, 1.8V/1.2V/1.2V	Now
1Gb	32M x32	DDR2-800	H9TKNNN1GDAPLR-NDM	FBGA(168ball)	8Bank, 1.8V/1.2V/1.2V	Now
		DDR2-667	H9TKNNN1GDAPLR-NYM	FBGA(168ball)	8Bank, 1.8V/1.2V/1.2V	Now

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▪ LPDDR3

DENSITY	ORG.	SPEED	PART NUMBER	PKG.	FEATURE	AVAIL.
4Gb	128M x 32	DDR3-1600	H9CCNNN4GTMLAR-NTM	FBGA(178ball)	8Bank, 1.8V/1.2V/1.2V	Now
		DDR3-1333	H9CCNNN4GTMLAR-NKM	FBGA(178ball)	8Bank, 1.8V/1.2V/1.2V	Now

* All SDRAM is Available For Lead Free or Lead & Halogen Free

Product	Tech	Density	Block Size	Stack	Vcc/Org	Package	Availability
HY27US08281A	9xnm class	128Mb	16KB	SDP	3.3v/X8	TSOP/USOP	Now
HY27US08561A	9xnm class	256Mb	16KB	SDP	3.3v/X8	TSOP/FBGA/USOP	Now
H27U518S2C	5xnm class	512Mb	16KB	SDP	3.3v/X8	TSOP	Now
H27U1G8F2B	4xnm class	1Gb	128KB	SDP	3.3v/X8	TSOP/FBGA	Now
H27S1G8F2B	4xnm class	1Gb	128KB	SDP	1.8v/X8	FBGA	Now
H27U1G8F2C	3xnm class	1Gb	128KB	SDP	3,3v/X8	TSOP/FBGA	Now
HY27UF082G2B	5xnm class	2Gb	128KB	SDP	3.3v/X8	TSOP/FBGA/LGA	Now
H27U2G8F2C	4ynm class	2Gb	128KB	SDP	3.3v/X8	TSOP	Now
H27S2G8F2C	4ynm class	2Gb	128KB	SDP	1.8v/X8	FBGA	Now
H27U2G8F2D	3xnm class	2Gb	128KB	SDP	3.3v/X8	TSOP	Now
HY27UF084G2B	5xnm class	4Gb	128KB	SDP	3.3v/X8	TSOP	Now
H27U4G8F2D	4ynm class	4Gb	128KB	SDP	3.3v/X8	TSOP	Now
H27U4G8F2E	3xnm class	4Gb	128KB	SDP	3.3v/X8	TSOP	Now
H27U8G8G5D	4ynm class	8Gb	128KB	DDP	3.3v/X8	TSOP	Now
H27S1G8F2C	3xnm class	1Gb	128KB	SDP	1.8v/X8	FBGA	Now
H27QBG8GDAIR-BCB	3xnm class	32Gb	512KB	DDP	3.3v/X8	VFPGA	Now
H27QCG8HEAIR-BCB	3xnm class	64Gb	512KB	QDP	3.3v/X8	VFPGA	Now

Product	Tech	Density	Block Size	Stack	Vcc/Org	Package	Availability	Remark
H27UCG8T2A	2ynm class	64Gb	2MB	SDP	3.3v/X8	TSOP	Now	
H27UCG8T2B	2ynm class	64Gb	4MB	SDP	3.3v/X8	TSOP/FBGA-132	Now	
H27UBG8T2C	2ynm class	32Gb	2MB	SDP	3.3v/X8	TSOP	Now	
H27UAG8T2C	2ynm class	16Gb	2MB	SDP	3.3v/X8	TSOP/PGD2	Now	
H27QCGDT2B	2ynm class	64Gb	4MB	SDP	3.3v/x8	FBGA-132	Now	HS(ONFi3.0)
H27QDGDUB	2ynm class	128Gb	4MB	DDP	3.3v/x8	FBGA-132	Now	HS(ONFi3.0)
H27QEGDVEB	2ynm class	256Gb	4MB	QDP	3.3v/x8	FBGA-132	Now	HS(ONFi3.0)
H27QFGDYEB	2ynm class	512Gb	4MB	ODP	3.3v/x8	FBGA-132	Now	HS(ONFi3.0)
H27UCG8T2D	1xnm class	64Gb	2MB	SDP	3.3v/x8	FBGA-132	Q2'13	
H27UDG8U5D	1xnm class	128Gb	2MB	DDP	3.3v/x8	FBGA-132	Q2'13	
H27UCG8T2E	1xnm class	64Gb	4MB	SDP	3.3v/x8	FBGA-132	Q4'13	
H27UDG8U5E	1xnm class	128Gb	4MB	DDP	3.3v/x8	FBGA-132	Q4'13	
H27QDG8T2A	3D-V1 class	128Gb	3MB	SDP	3.3v/x8	FBGA-132	Q1'14	
H27QCG8T2A	2ynm class	64Gb	2MB	SDP	3.3v/x8	FBGA-132	Now	HS(ONFi2.2)
H27QDG8UDA	2ynm class	128Gb	2MB	DDP	3.3v/x8	FBGA-132	Now	HS(ONFi2.2)
H27QEG8VEA	2ynm class	256Gb	2MB	QDP	3.3v/x8	FBGA-132	Now	HS(ONFi2.2)
H27QFG8YEA	2ynm class	512Gb	2MB	ODP	3.3v/x8	FBGA-132	Now	HS(ONFi2.2)

Product	Density	Base Component			Vcc/Org	Version	Availability	Remark
		Tech.	Density	Stack				
H26M21001FPR	2GB	2ynm class	16Gb	1	3.3V/x8/x4	MMC4.41	Now	11.5x13x0.8
H26M21001FRR	2GB	2ynm class	16Gb	1	3.3V/x8/x4	MMC4.41	Now	11x10x0.8
H26M31002GPR	4GB	2ynm class	32Gb	1	3.3V/x8/x4	MMC4.41	Now	11.5x13x0.8
H26M31002GRR	4GB	2ynm class	32Gb	1	3.3V/x8/x4	MMC4.41	Now	11x10x0.8
H26M31003GMR	4GB	2ynm class	32Gb	1	3.3V/x8/x4	MMC4.5	Now	11.5x13x1.0
H26M31001HRR	4GB	1xnm Class	32Gb	1	3.3V/x8/x4	MMC4.5	4Q' 13	11x10x0.8
H26M42002GMR	8GB	2ynm class	32Gb	2	3.3V/x8/x4	MMC4.41	Now	11.5x13x1.0
H26M42003GMR	8GB	2ynm class	32Gb	2	3.3V/x8/x4	MMC4.5	Now	11.5x13x1.0
H26M41001HPR	8GB	1xnm Class	64Gb	1	3.3V/x8/x4	MMC4.5	3Q' 13	11.5x13x0.8
H26M52002EQR	16GB	2ynm class	64Gb	2	3.3V/x8/x4	MMC4.41	Now	12x16x1.0
H26M52003EQR	16GB	2ynm class	64Gb	2	3.3V/x8/x4	MMC4.5	Now	12x16x1.0
H26M54002EMR	16GB	2ynm class	32Gb	4	3.3V/x8/x4	MMC4.41	Now	11.5x13x1.0
H26M54003EMR	16GB	2ynm class	32Gb	4	3.3V/x8/x4	MMC4.5	Now	11.5x13x1.0
H26M52001FMR	16GB	1xnm class	64Gb	2	3.3V/x8/x4	MMC4.5	3Q' 13	11.5x13x1.0
H26M64002DQR	32GB	2ynm class	64Gb	4	3.3V/x8/x4	MMC4.41	Now	12x16x1.0
H26M64002DQRS	32GB	2ynm class	64Gb	4	3.3V/x8/x4	MMC4.41	Now	12x16x1.0
H26M64003DQR	32GB	2ynm class	64Gb	4	3.3V/x8/x4	MMC 4.5	Now	12x16x1.0
H26M68003DCR	32GB	2ynm class	32Gb	8	3.3V/x8/x4	MMC 4.5	Now	11.5x13x1.2
H26M64001EMR	32GB	1xnm class	64Gb	4	3.3V/x8/x4	MMC 4.5	3Q' 13	11.5x13x1.0
H26M78002BFR	64GB	2ynm class	64Gb	8	3.3V/x8/x4	MMC4.41	Now	12x16x1.2
H26M78002BFRS	64GB	2ynm class	64Gb	8	3.3V/x8/x4	MMC4.41	Now	12x16x1.2
H26M78003BFR	64GB	2ynm class	64Gb	8	3.3V/x8/x4	MMC 4.5	Now	12x16x1.2
H26M78001CCR	64GB	1xnm class	64Gb	8	3.3V/x8/x4	MMC 4.5	3Q' 13	11.5x13x1.2

Product	Tech	Density	Block Size	Stack	Vcc/Org	Package	Availability	Remark
H2JTCG8T22MBR	2ynm class	64Gb	4MB	1	3.0V,3.3V/x8	VLGA	Now	
H2JTDG8UD2MBR	2ynm class	128Gb	4MB	2	3.0V,3.3V/x8	VLGA	Now	
H2JTEG8VD2MBR	2ynm class	256Gb	4MB	4	3.0V,3.3V/x8	VLGA	Now	
H2JTFG8YD2MBR	2ynm class	512Gb	4MB	8	3.0V,3.3V/x8	VLGA	Now	
H2JTDG8UD1AMR	1xnm class	128Gb	2MB	2	3.0V,3.3V/x8	VLGA	4Q' 13	Non Shielded
H2JTEG8VD1AMR	1xnm class	256Gb	2MB	4	3.0V,3.3V/x8	VLGA	4Q' 13	Non Shielded
H2JTFG8YD1AMR	1xnm class	512Gb	2MB	8	3.0V,3.3V/x8	VLGA	4Q' 13	Non Shielded
H2JTVG8ZD1ABR	1xnm class	768Gb	2MB	12	3.0V,3.3V/x8	VLGA	4Q' 13	Non Shielded
H2JT1T8CD1A1R	1xnm class	1024Gb	2MB	16	3.0V,3.3V/x8	VLGA	4Q' 13	Non Shielded
H2JTDG8UD1AMS	1xnm class	128Gb	2MB	2	3.0V,3.3V/x8	VLGA	4Q' 13	EMI Shielded
H2JTEG8VD1AMS	1xnm class	256Gb	2MB	4	3.0V,3.3V/x8	VLGA	4Q' 13	EMI Shielded
H2JTFG8YD1AMS	1xnm class	512Gb	2MB	8	3.0V,3.3V/x8	VLGA	4Q' 13	EMI Shielded
H2JTVG8ZD1ABS	1xnm class	768Gb	2MB	12	3.0V,3.3V/x8	VLGA	4Q' 13	EMI Shielded
H2JT1T8CD1A1S	1xnm class	1024Gb	2MB	16	3.0V,3.3V/x8	VLGA	4Q' 13	EMI Shielded

		VGA				HD	
Part Number		YACBAC1S	YACBA21S	YACBAD1S	YACBAE1S	YACY611C	YACY9A1C
		Hi-702	Hi-704	Hi-707	Hi-708	Hi-162	Hi-191
Optical Format		1/10-inch	1/10-inch	1/10-inch	1/10-inch	1/5.5-inch	1/9-inch
Pixel Size		2.25um x 2.25um	2.25um x 2.25um	2.2um x 2.2um	2.125um x 2.125um	2.0um x 2.0um	1.4um x 1.4um
Active Array Format		640H x 480V	640H x 480V	640H x 480V	640H x 480V	1280H x 800V	1280H x 720V
Frame Rate		30-fps @full resolution	30-fps @full resolution	30-fps @full resolution	30-fps @full resolution	30-fps @full resolution 30-fps @ 720P	60-fps @full resolution 60-fps @ 720P
Type		SOC	SOC	SOC	SOC	RAW	RAW
Output Format		YUV4:2:2	YUV4:2:2	YUV4:2:2	YUV4:2:2	Bayer 10bit	Bayer 10bit
		RGB5:6:5	RGB5:6:5	RGB5:6:5	RGB5:6:5		
		RGB4:4:4	RGB4:4:4	RGB4:4:4	RGB4:4:4		
Supply Voltage	Digital I/O	1.8V / 2.8V	1.8V / 2.8V	1.8V / 2.8V	1.8V / 2.8V	1.8V / 2.8V	1.8V / 2.8V
	Digital Core	1.8V	1.8V	1.8V	1.8V	1.8V	1.2V / 1.8V
	Analog & Pixel	2.8V	2.8V	2.8V	2.8V	2.8V	2.8V
Operating Temp.		-20℃ to 60℃	-20℃ to 60℃	-20℃ to 60℃	-20℃ to 60℃	-20℃ to 60℃	-20℃ to 60℃
Status		Mass Production	Mass Production	Mass Production	Sampling	Mass Production	Sampling
Packaging		Bare Die (COB)	Bare Die (COB)	Bare Die (COB)	Bare Die (COB)	Bare Die (COB)	Bare Die (COB)
		NeoPAC CSP	ShellUT CSP	NeoPAC CSP	TSV CSP	ShellUT CSP NeoPAC CSP	NeoPAC CSP
Interface		Parallel	Parallel	MIPI	Parallel	Parallel	Parallel / MIPI

		1.3M		1.7M	2M			
Part Number		YACC6A1S	YACC6C1S	YACX6A1S	YACD511S	YACD5C1S	YACD521S	YACD5D1S
		Hi-161	Hi-163	Hi-164	Hi-253	Hi-255	Hi-256	Hi-257
Optical Format		1/6-inch	1/6-inch	1/6-inch	1/5-inch	1/5-inch	1/5-inch	1/5-inch
Pixel Size		1.75um x 1.75um	1.75um x 1.75um	1.75um x 1.75um	1.75um x 1.75um	1.75um x 1.75um	1.75um x 1.75um	1.75um x 1.75um
Active Array Format		1280H x 1024V	1280H x 960V	1280H x 1280V	1600H x 1200V	1600H x 1200V	1600H x 1200V	1600H x 1200V
Frame Rate		15fps @ full resolution	15fps @ full resolution	15-fps @ full resolution 30-fps @ 720P	15-fps @ full resolution	15-fps @ full resolution	15-fps @ full resolution	15-fps @ full resolution
Type		SOC	SOC	SOC	SOC	SOC	SOC	SOC
Output Format		YUV4:2:2	YUV4:2:2 / RGB5:6:5 / ITU656-like	YUV4:2:2 / RGB5:6:5 / ITU656-like	YUV4:2:2	YUV4:2:2	YUV4:2:2	YUV4:2:2
		RGB5:6:5	Bayer 8-bit @ Parallel	Bayer	RGB5:6:5	RGB5:6:5	RGB5:6:5	RGB5:6:5
		ITU656-like	Bayer 10-bit @ MIPI		ITU656-like	ITU656-like	ITU656-like	
Supply Voltage	Digital I/O	1.8V / 2.8V	1.8V / 2.8V	1.8V/2.8V	1.8V / 2.8V	1.8V / 2.8V	1.8V / 2.8V	1.8V / 2.8V
	Digital Core	1.8V	1.8V	1.2V/1.8V	1.8V	1.8V	1.8V	1.8V
	Analog & Pixel	2.8V	2.8V	2.8V	2.8V	2.8V	2.8V	2.8V
Operating Temp.		-20℃ to 60℃	-20℃ to 60℃	-20℃ to 60℃	-20℃ to 60℃	-20℃ to 60℃	-20℃ to 60℃	-20℃ to 60℃
Status		Mass Production	Mass Production	Sampling	Mass Production	Mass Production	Mass Production	Mass Production
Packaging		Bare die (COB)	Bare die (COB)	Bare Die (COB)	Bare die (COB)	Bare die (COB)	ShellUT CSP	Bare die (COB)
		Recon. Wafer	Recon. Wafer	(NeoPAC CSP)	ShellUT CSP			TSV CSP
		NeoPAC CSP	NeoPAC CSP	(TSV CSP)				
Interface		Parallel	Parallel / MIPI	Parallel / MIPI	Parallel	Parallel / MIPI	Parallel / MIPI	Parallel

		FHD	3M		5M		8M
Part Number		YACD6A1C	YACE5B1S	YACE5C1S	YACF4B1C	YACF4C1C	YACG4A1C
		Hi-261	Hi-351	Hi-352	Hi-542	Hi-543	Hi-841
Optical Format		1/6-inch	1/5-inch	1/5-inch	1/4-inch	1/4-inch	1/4-inch
Pixel Size		1.34um x 1.34um	1.4um x 1.4um	1.4um x 1.4um	1.4um x 1.4um	1.4um x 1.4um	1.12um x 1.12um
Active Array Format		1920H x 1080V	2048H x 1536V	2048H x 1536V	2592H x 1944V	2592H x 1944V	3264H x 2448V
Frame Rate		60-fps@full resolution	15-fps @full resolution	15-fps @full resolution	15-fps @full resolution	30-fps @full resolution	30-fps @full resolution
Type		RAW	SOC	SOC	RAW	RAW	RAW
Output Format		Bayer 10-bit	YUV422,RGB565	YUV422,RGB565	Bayer 10bit	Bayer 10bit	Bayer 10bit
			ITU656-like, Bayer 10bit,	ITU656-like, Bayer 10bit,			
Supply Voltage	Digital I/O	1.8V / 2.8V	1.8V / 2.8V	1.8V / 2.8V	1.8V / 2.8V	1.8V / 2.8V	1.8V / 2.8V
	Digital Core	1.2V / 1.8V	1.2V	1.2V	1.2V / 1.5V / 1.8V	1.8V	1.2V / 1.8V
	Analog & Pixel	2.8V	2.8V	2.8V	2.8V	2.8V	2.8V
Operating Temp.		-20℃ to 60℃	-20℃ to 60℃	-20℃ to 60℃	-20℃ to 60℃	-20℃ to 60℃	-20℃ to 60℃
Status		Mass Production	Mass Production	Mass Production	Mass Production	Mass Production	Sampling
Packaging		Bare die (COB)	Bare die (COB)	Bare die (COB)	Recon. Wafer	Recon. Wafer	Recon. Wafer
		(Neopac CSP) (TSV CSP)	Recon. Wafer	Recon. Wafer			
Interface		Parallel / MIPI	Parallel / MIPI	Parallel / MIPI	Parallel / MIPI	Parallel / MIPI	Parallel / MIPI