

COMPONENT

COMPONENT PART NUMBERING **_5**

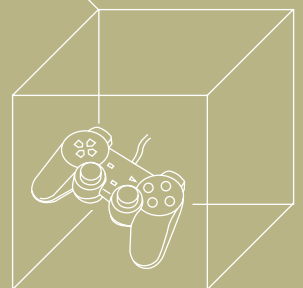
DDR / DDR2 SDRAM **_11**

SDRAM **_14**

GRAPHICS DDR SDRAM **_17**

HANDY SDRAM **_18**

EDO/FP DRAM **_19**



DDR SDRAM PART NUMBERING

HY XX X XX XX X X X X XX XX X - XX X
(1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) (13) (14)

(1) HYNIX MEMORY

(2) PRODUCT FAMILY

5D : DDR SDRAM

(3) PROCESS & POWER SUPPLY

V : VDD=3.3V & VDDQ=2.5V
 U : VDD=2.5V & VDDQ=2.5V
 W : VDD=2.5V & VDDQ=1.8V
 S : VDD=1.8V & VDDQ=1.8V

(4) DENSITY & REFRESH

64 : 64M 4K Refresh
 66 : 64M 2K Refresh
 28 : 128M 4K Refresh
 56 : 256M 8K Refresh
 57 : 256M 4K Refresh
 12 : 512M 8K Refresh
 1G : 1G 8K Refresh

(5) ORGANIZATION

4 : x4
 8 : x8
 16 : x16
 32 : x32

(6) # of BANK

1 : 2Banks
 2 : 4Banks
 3 : 8Banks

(7) INTERFACE

1 : SSTL_3
 2 : SSTL_2
 3 : SSTL_18

(8) DIE GENERATION

BLANK : 1st Gen.
 A : 2nd Gen.
 B : 3rd Gen.
 C : 4th Gen

(14) TEMPERATURE

I : Industrial (-40 °C~85 °C)
 E : Extended (-25 °C~85 °C)

(13) SPEED

D5 : DDR500 3-4-4
 D43 : DDR400 3-3-3
 D4 : DDR400 3-4-4
 D42 : DDR400 2.5-3-3
 D41 : DDR400 2-3-3
 J : DDR333
 M : DDR266 2-2-2
 K : DDR266A
 H : DDR266B
 L : DDR200

(12) PACKAGE MATERIAL

BLANK: Normal
 P : Lead free
 H : Halogen free
 R : Lead & Halogen free

(11) PACKAGE STACK

BLANK : Normal
 S : Stack Package (Hynix)
 K : Stack Package (M & T)
 J : Stack Package (Others)
 M : MCP (Hynix)
 MU : MCP (UTC)

(10) PACKAGE TYPE

T : TSOP
 Q : LQFP
 F : FBGA
 FC : FBGA(UTC:8x13mm)

(9) POWER CONSUMPTION

BLANK : Normal
 L : Low Power

♣ All DDR SDRAMs follow above Part Numbering System except HY5DV651622TC-series

DDR2 SDRAM PART NUMBERING

HY XX X XX XX X X X X X X - XX X
(1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) (13)

(1) HYNIX MEMORY

(2) PRODUCT FAMILY

5P : DDR2 SDRAM

(3) PROCESS & POWER SUPPLY

S : VDD=1.8V & VDDQ=1.8V

(4) DENSITY & REFRESH

28 : 128M 4K Refresh
 56 : 256M 8K Refresh
 12 : 512M 8K Refresh
 1G : 1G 8K Refresh
 2G : 2G 8K Refresh

(5) ORGANIZATION

4 : x4
 8 : x8
 16 : x16
 32 : x32

(6) # of BANK

1 : 2Banks
 2 : 4Banks
 3 : 8Banks

(7) INTERFACE

1 : SSTL_18
 2 : SSTL_2

(8) DIE GENERATION

BLANK : 1st Gen.
 A : 2nd Gen.
 B : 3rd Gen.
 C : 4th Gen.

(13) TEMPERATURE

I : Industrial (-40 °C~85 °C)
 E : Extended (-25 °C~85 °C)

(12) SPEED

S7 : DDR2-800 7-7-7
 S6 : DDR2-800 6-6-6
 Y6 : DDR2-667 6-6-6
 Y5 : DDR2-667 5-5-5
 C5 : DDR2-533 5-5-5
 C4 : DDR2-533 4-4-4
 C3 : DDR2-533 3-3-3
 E4 : DDR2-400 4-4-4
 E3 : DDR2-400 3-3-3

(11) PACKAGE MATERIAL

BLANK : Normal
 P : Lead free
 H : Halogen free
 R : Lead & Halogen free

(10) PACKAGE TYPE

F : FBGA
 S : FBGA Stack Package

(9) POWER CONSUMPTION

BLANK : Normal
 L : Low Power

SDRAM PART NUMBERING

HY XX X XX XX X X XX X X X - XX X
(1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) (13)

(1) HYNIX MEMORY

(2) PRODUCT FAMILY

57 : SDRAM

(3) PROCESS & POWER SUPPLY

V : VDD=3.3V & VDDQ=3.3V
 Y : VDD=3.0V & VDDQ=3.0V
 U : VDD=2.5V & VDDQ=2.5V
 W : VDD=2.5V & VDDQ=1.8V
 S : VDD=1.8V & VDDQ=1.8V

(4) DENSITY & REFRESH

16 : 16M 2K Refresh
 32 : 32M 4K Refresh
 64 : 64M 4K Refresh
 28 : 128M 4K Refresh
 2A : 128M WithTCSR, 4k Refresh
 56 : 256M 8K Refresh
 5A : 256M WithTCSR, 8k Refresh
 12 : 512M 8K Refresh

(5) ORGANIZATION

4 : x4
 8 : x8
 16 : x16
 32 : x32

(6) # of BANK

1 : 2Banks
 2 : 4Banks

(7) INTERFACE

0 : LVTTTL
 1 : SSTL_3

(13) TEMPERATURE

I : Industrial (-40℃~85℃)
 E : Extended (-25℃~85℃)

(12) SPEED

5 : 200MHz
 55 : 183MHz
 6 : 166MHz
 7 : 143MHz
 K : PC133, CL2
 H : PC133, CL3
 8 : 125MHz
 P : PC100, CL2
 S : PC100, CL3
 10 : 100MHz

(11) PACKAGE MATERIAL

BLANK : Normal
 P : Lead free
 H : Halogen free
 R : Lead & Halogen free

(10) PACKAGE TYPE

T : TSOP
 S : Stack Package (Hynix)
 K : Stack Package (M & T)
 J : Stack Package (Others)
 W : KGD

(9) POWER CONSUMPTION

BLANK : Normal Power
 L : Low Power
 S : Super Low Power
 J : Ultra Super Low Power

(8) DIE GENERATION

Ichon	Cheong-ju
BLANK : 1st Gen.	H : 1st Gen.
A : 2nd Gen.	HA : 2nd Gen.
B : 3rd Gen.	HB : 3rd Gen.
C : 4th Gen.	HC : 4th Gen.

GRAPHICS MEMORY PART NUMBERING

HY XX X XX XX X X X X XX X - XX X
(1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) (13)

(1) HYNIX MEMORY

(2) PRODUCT FAMILY

5D : DDR SDRAM
 5Q : GDDR2 SDRAM
 5R : GDDR3 SDRAM

(3) PROCESS & POWER SUPPLY

V : VDD=3.3V & VDDQ=2.5V
 U : VDD=2.5V & VDDQ=2.5V
 W : VDD=2.5V & VDDQ=1.8V
 S : VDD=1.8V & VDDQ=1.8V

(4) DENSITY & REFRESH

32 : 32M 4K Refresh/32ms
 64 : 64M 4K Refresh/64ms
 66 : 64M 2K Refresh/16ms
 28 : 128M 4K Refresh/64ms
 26 : 128M 4K Refresh/32ms
 56 : 256M 8K Refresh/64ms
 57 : 256M 4K Refresh/32ms
 58 : 256M 8K Refresh/32ms
 12 : 512M 8K Refresh/64ms
 11 : 512M 4K Refresh/32ms
 1G : 1G 8K Refresh/64ms
 2G : 2G 8K Refresh/64ms

(5) ORGANIZATION

16 : x16
 32 : x32

(6) # of BANK

1 : 2Banks
 2 : 4Banks
 3 : 8Banks

(7) INTERFACE

1 : SSTL_3
 2 : SSTL_2
 3 : SSTL_18
 4 : Reserved
 5 : POD_18

(8) DIE GENERATION

BLANK : 1st Gen.
 A : 2nd Gen.
 B : 3rd Gen.
 C : 4th Gen.
 D : 5th Gen.

(13) TEMPERATURE

I : Industrial (-40 °C~85 °C)
 E : Extended (-25 °C~85 °C)

(12) SPEED

12 : 800MHz
 14 : 700MHz
 16 : 600MHz
 18 : 550MHz
 2 : 500MHz
 22 : 450MHz
 25 : 400MHz
 26 : 375MHz
 28 : 350MHz
 3 : 333MHz
 33 : 300MHz
 36 : 275MHz
 4 : 250MHz
 43 : 233MHz
 45 : 222MHz
 5 : 200MHz
 55 : 183MHz
 6 : 166MHz

(11) PACKAGE MATERIAL

BLANK : Normal
 P : Lead free
 H : Halogen free
 R : Lead & Halogen free

(10) PACKAGE TYPE

T : TSOP II
 Q : LQFP
 F : FBGA
 FM : MCP FBGA

(9) POWER CONSUMPTION

BLANK : Normal
 L : Low Power

SDRAM FBGA PART NUMBERING (NORMAL, HANDY)

HY X X X X X X X X X - XX X
(1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12)

(1) HYNIX MEMORY

(2) PRODUCT FAMILY

5 : SDRAM

(3) POWER SUPPLY

V : VDD=3.3V & VDDQ=3.3V
 Y : VDD=3.0V/3.3V & VDDQ=3.0V/3.3V
 (Only Handy)
 W : VDD=2.5V & VDDQ=1.8V/2.5V
 S : VDD=1.8V & VDDQ=1.8V

(4) DENSITY & REFRESH

1 : 16M 2K Refresh
 3 : 32M 4K Refresh
 6 : 64M 4K Refresh
 2 : 128M 4K Refresh
 5 : 256M 8K Refresh
 7 : 512M 8K Refresh

(5) FUNCTION

BLANK : Normal SDRAM (Not Support Low Power Function)
 A : Low Power Function (TCSR/PASR/DS/DPD)
 B : On Die TCSR (PASR/DS/DPD)

(6) ORGANIZATION

4 : x4
 8 : x8
 6 : x16
 2 : x32

(7) DIE GENERATION

BLANK : 1st Gen.
 A : 2nd Gen.
 B : 3rd Gen.

(12) TEMPERATURE

BLANK : Commercial (0℃~70℃)
 F : PDA (-25℃~70℃)
 E : Extended (-25℃~85℃)
 I : Industrial(-40℃~85℃)

(11) SPEED

5 : 200MHz, CL3
 55 : 183MHz, CL3
 6 : 166MHz, CL3
 7 : 143MHz, CL3
 K : 133MHz, CL3
 H : 133MHz, CL3
 8 : 125MHz, CL3
 P : 100MHz, CL2(Handy:105MHz)
 S : 100MHz, CL3(Handy:105MHz)
 B : 66MHz, CL2

(10) PACKAGE MATERIAL

BLANK : Normal
 P : Lead free
 H : Halogen free
 R : Lead & Halogen free

(9) PACKAGE TYPE

F : FBGA
 W : KGD
 D : Die Stack
 M : MCP

(8) POWER

BLANK : Normal
 L : Low Power
 S : Super Low Power

EDO/FP DRAM PART NUMBERING

HY XX XX X XX XX X XX X X - XX X
(1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12)

(1) HYNIX MEMORY

(2) PRODUCT FAMILY

51 : FP/EDO DRAM

(3) PROCESS & POWER SUPPLY

V : CMOS, 3.3V
 VL : CMOS, 2.35V

(4) REFRESH

BLANK: Standard
 S : Self Refresh

(5) DENSITY & REFRESH

16 : 16M 4K Refresh
 17 : 16M 2K Refresh
 18 : 16M 1K Refresh
 64 : 64M 8K Refresh
 65 : 64M 4K Refresh

(6) ORGANIZATION

40 : x4
 41 : x4(4CAS)
 80 : x8
 16 : x16
 17 : x16(2CAS)
 18 : x16(2WE)
 32 : x32(2CAS)
 33 : x32(2WE)
 34 : x32(4CAS)

(12) TEMPERATURE

I : Industrial Temperature
 E : Extended Temperature

(11) SPEED

45 : 45ns
 5 : 50ns
 6 : 60ns
 7 : 70ns
 8 : 80ns
 10 : 100ns
 (In case of 2.35V)

(10) PACKAGE TYPE

J : SOJ
 T : TSOP
 R : TSOP(REVERSE)
 I : BLP

(9) POWER CONSUMPTION

BLANK : Nomal
 L : Low Power

(8) DIE GENERATION

Ichon	Cheong-ju
BLANK : 1st Gen.	H : 1st Gen.
A : 2nd Gen.	HA : 2nd Gen.
B : 3rd Gen.	HB : 3rd Gen.
C : 4th Gen.	HC : 4th Gen.

(7) ACCESS MODE

0 : FP Mode
 3 : EDO Mode

DRAM

DDR SDRAM COMPONENT

DENSITY	ORG.	SPEED	PART NUMBER	PKG	FEATURE	AVAIL			
1Gb	256Mx4	DDR333	HY5DU1G422T-J	TSOPII(66pin)	4Bank,2.5V,CL2.5	1Q04			
		DDR266B	HY5DU1G422T-H	TSOPII(66pin)	4Bank,2.5V,CL2.5	1Q04			
		DDR200	HY5DU1G422T-L	TSOPII(66pin)	4Bank,2.5V,CL2	1Q04			
	128Mx8	DDR333	HY5DU1G822T-J	TSOPII(66pin)	4Bank,2.5V,CL2.5	1Q04			
		DDR266B	HY5DU1G822T-H	TSOPII(66pin)	4Bank,2.5V,CL2.5	1Q04			
512Mb	128MX4	DDR400	HY5DU12422AT-D43	TSOPII(66pin)	4Bank,2.6V, 3-3-3	Now			
			HY5DU12422BT-D43	TSOPII(66pin)	4Bank,2.6V, 3-3-3	1Q04			
			HY5DU12422BF-D43	FBGA(60ball)	4Bank,2.6V, 3-3-3	1Q04			
		DDR333	HY5DU12422BF-J	FBGA(60ball)	4Bank,2.5V,CL2.5	1Q04			
		DDR266A	HY5DU12422AT-K	TSOPII(66pin)	4Bank,2.5V,CL2	Now			
			HY5DU12422BT-K	TSOPII(66pin)	4Bank,2.5V,CL2	1Q04			
		DDR266B	HY5DU12422AT-H	TSOPII(66pin)	4Bank,2.5V,CL2.5	Now			
			HY5DU12422BT-H	TSOPII(66pin)	4Bank,2.5V,CL2.5	1Q04			
		DDR200	HY5DU12422AT-L	TSOPII(66pin)	4Bank,2.5V,CL2	Now			
			HY5DU12422BT-L	TSOPII(66pin)	4Bank,2.5V,CL2	1Q04			
		64MX8	DDR400		HY5DU12822AT-D43	TSOPII(66pin)	4Bank,2.6V, 3-3-3	Now	
					HY5DU12822BT-D43	TSOPII(66pin)	4Bank,2.6V, 3-3-3	1Q04	
				HY5DU12822BF-D43	FBGA(60ball)	4Bank,2.6V, 3-3-3	1Q04		
				HY5DU12822BT-D42	TSOPII(66pin)	4Bank,2.6V, 2.5-3-3	1Q04		
	DDR333			HY5DU12822AT-J	TSOPII(66pin)	4Bank,2.5V,CL2.5	Now		
				HY5DU12822BT-J	TSOPII(66pin)	4Bank,2.5V,CL2.5	1Q04		
	DDR266B			HY5DU12822BF-J	FBGA(60ball)	4Bank,2.5V,CL2.5	1Q04		
				HY5DU12822AT-H	TSOPII(66pin)	4Bank,2.5V,CL2.5	Now		
				HY5DU12822BT-H	TSOPII(66pin)	4Bank,2.5V,CL2.5	1Q04		
			32MX16	DDR400		HY5DU121622AT-D43	TSOPII(66pin)	4Bank,2.6V, 3-3-3	Now
						HY5DU121622BT-D43	TSOPII(66pin)	4Bank,2.6V, 3-3-3	1Q04
					DDR333	HY5DU121622AT-J	TSOPII(66pin)	4Bank,2.5V,CL2.5	Now
	DDR266B			HY5DU121622BT-J	TSOPII(66pin)	4Bank,2.5V,CL2.5	1Q04		
				HY5DU121622AT-H	TSOPII(66pin)	4Bank,2.5V,CL2.5	Now		
				HY5DU121622BT-H	TSOPII(66pin)	4Bank,2.5V,CL2.5	1Q04		
	256Mb	64Mx4	DDR333	HY5DU56422A(L)T-J	TSOPII(66pin)	4Bank, 2.5V, CL2.5	Now		
				HY5DU56422B(L)T-J	TSOPII(66pin)	4Bank, 2.5V, CL2.5	Now		
				HY5DU56422D(L)T-J	TSOPII(66pin)	4Bank, 2.5V, CL2.5	Now		
				HY5DU56422(L)T-K	TSOPII(66pin)	4Bank, 2.5V, CL2	Now		
				HY5DU56422A(L)T-K	TSOPII(66pin)	4Bank, 2.5V, CL2	Now		
				HY5DU56422B(L)T-K	TSOPII(66pin)	4Bank, 2.5V, CL2	Now		
			DDR266A	HY5DU56422D(L)T-K	TSOPII(66pin)	4Bank, 2.5V, CL2	Now		
				HY5DU56422(L)T-H	TSOPII(66pin)	4Bank, 2.5V, CL2.5	Now		
				HY5DU56422A(L)T-H	TSOPII(66pin)	4Bank, 2.5V, CL2.5	Now		
				HY5DU56422B(L)T-H	TSOPII(66pin)	4Bank, 2.5V, CL2.5	Now		
				HY5DU56422D(L)T-H	TSOPII(66pin)	4Bank, 2.5V, CL2.5	Now		
HY5DU56422(L)T-L				TSOPII(66pin)	4Bank, 2.5V, CL2	Now			
DDR266B			HY5DU56422A(L)T-L	TSOPII(66pin)	4Bank, 2.5V, CL2	Now			
			HY5DU56422B(L)T-L	TSOPII(66pin)	4Bank, 2.5V, CL2	Now			
			HY5DU56422D(L)T-L	TSOPII(66pin)	4Bank, 2.5V, CL2	Now			
			32Mx8	DDR500	HY5DU56822C(L)T-D5	TSOPII(66pin)	4Bank, 2.8V, 3-4-4	Now	
					HY5DU56822D(L)T-D5	TSOPII(66pin)	4Bank, 2.6V, 3-4-4	1Q04	
					DDR400	HY5DU56822A(L)T-D43	TSOPII(66pin)	4Bank, 2.6V, 3-3-3	Now
HY5DU56822B(L)T-D43		TSOPII(66pin)				4Bank, 2.6V, 3-3-3	Now		
HY5DU56822D(L)T-D43		TSOPII(66pin)				4Bank, 2.6V, 3-3-3	Now		
HY5DU56822C(L)T-D42		TSOPII(66pin)				4Bank, 2.6V, 2.5-3-3	Now		
HY5DU56822D(L)T-D42		TSOPII(66pin)		4Bank, 2.6V, 2.5-3-3		1Q04			
HY5DU56822D(L)T-D41		TSOPII(66pin)		4Bank, 2.6V, 2-3-3		1Q04			
DDR333		HY5DU56822D(L)T-D42		TSOPII(66pin)	4Bank, 2.6V, 2.5-3-3	Now			
		HY5DU56822D(L)T-D41		TSOPII(66pin)	4Bank, 2.6V, 2-3-3	Now			
		HY5DU56822A(L)T-J		TSOPII(66pin)	4Bank, 2.5V, CL2.5	Now			

DRAM

DDR SDRAM COMPONENT

DENSITY	ORG.	SPEED	PART NUMBER	PKG	FEATURE	AVAIL.
256Mb	32Mx8	DDR333	HY5DU56822B(L)T-J	TSOPII(66pin)	4Bank, 2.5V, CL2.5	Now
			HY5DU56822D(L)T-J	TSOPII(66pin)	4Bank, 2.5V, CL2.5	Now
		DDR266A	HY5DU56822(L)T-K	TSOPII(66pin)	4Bank, 2.5V, CL2	Now
			HY5DU56822A(L)T-K	TSOPII(66pin)	4Bank, 2.5V, CL2	Now
			HY5DU56822B(L)T-K	TSOPII(66pin)	4Bank, 2.5V, CL2	Now
			HY5DU56822D(L)T-K	TSOPII(66pin)	4Bank, 2.5V, CL2	Now
		DDR266B	HY5DU56822D(L)T-H	TSOPII(66pin)	4Bank, 2.5V, CL2	Now
			HY5DU56822(L)T-H	TSOPII(66pin)	4Bank, 2.5V, CL2.5	Now
			HY5DU56822A(L)T-H	TSOPII(66pin)	4Bank, 2.5V, CL2.5	Now
			HY5DU56822B(L)T-H	TSOPII(66pin)	4Bank, 2.5V, CL2.5	Now
	DDR200	HY5DU56822D(L)T-H	TSOPII(66pin)	4Bank, 2.5V, CL2.5	Now	
		HY5DU56822(L)T-L	TSOPII(66pin)	4Bank, 2.5V, CL2	Now	
		HY5DU56822B(L)T-L	TSOPII(66pin)	4Bank, 2.5V, CL2	Now	
		HY5DU56822D(L)T-L	TSOPII(66pin)	4Bank, 2.5V, CL2	Now	
		HY5DU561622A(L)T-D43	TSOPII(66pin)	4Bank, 2.6V, 3-3-3	Now	
		HY5DU561622C(L)T-D43	TSOPII(66pin)	4Bank, 2.6V, 3-3-3	Now	
	16Mx16	DDR400	HY5DU561622C(L)T-D42	TSOPII(66pin)	4Bank, 2.6V, 2.5-3-3	Now
			HY5DU561622D(L)T-D42	TSOPII(66pin)	4Bank, 2.6V, 2.5-3-3	1Q04
			HY5DU561622D(L)T-D41	TSOPII(66pin)	4Bank, 2.6V, 2-3-3	1Q04
			HY5DU561622D(L)T-D42	TSOPII(66pin)	4Bank, 2.6V, 2.5-3-3	Now
HY5DU561622D(L)T-D41			TSOPII(66pin)	4Bank, 2.6V, 2-3-3	Now	
DDR333			HY5DU561622A(L)T-J	TSOPII(66pin)	4Bank, 2.5V, CL2.5	Now
			HY5DU561622C(L)T-J	TSOPII(66pin)	4Bank, 2.5V, CL2.5	Now
			HY5DU561622D(L)T-J	TSOPII(66pin)	4Bank, 2.5V, CL2.5	Now
			HY5DU561622A(L)T-K	TSOPII(66pin)	4Bank, 2.5V, CL2	Now
DDR266A			HY5DU561622C(L)T-K	TSOPII(66pin)	4Bank, 2.5V, CL2	Now
		HY5DU561622D(L)T-K	TSOPII(66pin)	4Bank, 2.5V, CL2	Now	
		HY5DU561622A(L)T-H	TSOPII(66pin)	4Bank, 2.5V, CL2.5	Now	
		HY5DU561622C(L)T-H	TSOPII(66pin)	4Bank, 2.5V, CL2.5	Now	
DDR266B		HY5DU561622D(L)T-H	TSOPII(66pin)	4Bank, 2.5V, CL2.5	Now	
		HY5DU561622A(L)T-L	TSOPII(66pin)	4Bank, 2.5V	Now	
		HY5DU561622C(L)T-L	TSOPII(66pin)	4Bank, 2.5V	Now	
		HY5DU561622D(L)T-L	TSOPII(66pin)	4Bank, 2.5V	Now	
		HY5DU28422ET-J	TSOPII(66pin)	4Bank, 2.5V, CL2.5	Now	
		HY5DU28422ET-J	TSOPII(66pin)	4Bank, 2.5V, CL3	Now	
128Mb		32Mx4	DDR266	HY5DU28422ET-M	TSOPII(66pin)	4Bank, 2.5V, CL2
	HY5DU28422ET-K			TSOPII(66pin)	4Bank, 2.5V, CL2	Now
	DDR266A		HY5DU28422ET-H	TSOPII(66pin)	4Bank, 2.5V, CL2.5	Now
			HY5DU28422B(L)T-L	TSOPII(66pin)	4Bank, 2.5V, CL2	Now
	DDR266B		HY5DU28422ET-L	TSOPII(66pin)	4Bank, 2.5V, CL2	Now
			HY5DU28822ET-J	TSOPII(66pin)	4Bank, 2.5V, CL2.5	Now
	16Mx8	DDR333	HY5DU28822ET-J	TSOPII(66pin)	4Bank, 2.5V, CL3	Now
			HY5DU28822ET-M	TSOPII(66pin)	4Bank, 2.5V, CL2	Now
		DDR266	HY5DU28822ET-K	TSOPII(66pin)	4Bank, 2.5V, CL2	Now
			HY5DU28822ET-H	TSOPII(66pin)	4Bank, 2.5V, CL2.5	Now
		DDR266A	HY5DU28822D(L)T-L	TSOPII(66pin)	4Bank, 2.5V, CL2	Now
			HY5DU28822ET-L	TSOPII(66pin)	4Bank, 2.5V, CL2	Now
8Mx16	DDR333	HY5DU281622ET-J	TSOPII(66pin)	4Bank, 2.5V, CL2.5	Now	
		HY5DU281622ET-J	TSOPII(66pin)	4Bank, 2.5V, CL3	Now	
	DDR266	HY5DU281622ET-M	TSOPII(66pin)	4Bank, 2.5V, CL2	Now	
		HY5DU281622ET-K	TSOPII(66pin)	4Bank, 2.5V, CL2	Now	
	DDR266A	HY5DU281622ET-H	TSOPII(66pin)	4Bank, 2.5V, CL2.5	Now	
		HY5DU281622D(L)T-L	TSOPII(66pin)	4Bank, 2.5V, CL2	Now	
DDR266B	HY5DU281622ET-L	TSOPII(66pin)	4Bank, 2.5V, CL2	Now		

DRAM

DDR2 SDRAM COMPONENT

DENSITY	ORG.	SPEED	PART NUMBER	PKG	FEATURE	AVAIL.		
1Gb	256Mx4	DDR2 533 5-5-5	HY5PS1G431F-C5	FBGA(68ball)	8Bank, 1.8V, CL5,5-5-5	1Q04		
		DDR2 533 4-4-4	HY5PS1G431F-C4	FBGA(68ball)	8Bank, 1.8V, CL4,4-4-4	1Q04		
		DDR2 400 4-4-4	HY5PS1G431F-E4	FBGA(68ball)	8Bank, 1.8V, CL4,4-4-4	1Q04		
		DDR2 400 3-3-3	HY5PS1G431F-E3	FBGA(68ball)	8Bank, 1.8V, CL3,3-3-3	1Q04		
	128Mx8	DDR2 533 5-5-5	HY5PS1G831F-C5	FBGA(68ball)	8Bank, 1.8V, CL5,5-5-5	2Q04		
		DDR2 533 4-4-4	HY5PS1G831F-C4	FBGA(68ball)	8Bank, 1.8V, CL4,4-4-4	2Q04		
		DDR2 400 4-4-4	HY5PS1G831F-E4	FBGA(68ball)	8Bank, 1.8V, CL4,4-4-4	2Q04		
		DDR2 400 3-3-3	HY5PS1G831F-E3	FBGA(68ball)	8Bank, 1.8V, CL3,3-3-3	2Q04		
512Mb	128Mx4	DDR2 533 5-5-5	HY5PS12421F-C5	FBGA(60ball)	4Bank, 1.8V, CL5,5-5-5	Now		
		DDR2 533 4-4-4	HY5PS12421F-C4	FBGA(60ball)	4Bank, 1.8V, CL4,4-4-4	Now		
		DDR2 400 4-4-4	HY5PS12421F-E4	FBGA(60ball)	4Bank, 1.8V, CL4,4-4-4	Now		
		DDR2 400 3-3-3	HY5PS12421F-E3	FBGA(60ball)	4Bank, 1.8V, CL3,3-3-3	Now		
	64Mx8	DDR2 667 6-6-6	HY5PS12821F-Y6	FBGA(60ball)	4Bank, 1.8V, CL6,6-6-6	4Q04		
		DDR2 667 5-5-5	HY5PS12821F-Y5	FBGA(60ball)	4Bank, 1.8V, CL5,5-5-5	4Q04		
		DDR2 533 5-5-5	HY5PS12821F-C5	FBGA(60ball)	4Bank, 1.8V, CL5,5-5-5	Now		
		DDR2 533 4-4-4	HY5PS12821F-C4	FBGA(60ball)	4Bank, 1.8V, CL4,4-4-4	Now		
		DDR2 400 4-4-4	HY5PS12821F-E4	FBGA(60ball)	4Bank, 1.8V, CL4,4-4-4	Now		
		DDR2 400 3-3-3	HY5PS12821F-E3	FBGA(60ball)	4Bank, 1.8V, CL3,3-3-3	Now		
		32Mx16	DDR2 667 6-6-6	HY5PS121621F-Y6	FBGA(84ball)	4Bank, 1.8V, CL6,6-6-6	4Q04	
			DDR2 667 5-5-5	HY5PS121621F-Y5	FBGA(84ball)	4Bank, 1.8V, CL5,5-5-5	4Q04	
	DDR2 533 5-5-5		HY5PS121621F-C5	FBGA(84ball)	4Bank, 1.8V, CL5,5-5-5	1Q04		
	DDR2 533 4-4-4		HY5PS121621F-C4	FBGA(84ball)	4Bank, 1.8V, CL4,4-4-4	1Q04		
	DDR2 400 4-4-4		HY5PS121621F-E4	FBGA(84ball)	4Bank, 1.8V, CL4,4-4-4	1Q04		
	DDR2 400 3-3-3		HY5PS121621F-E3	FBGA(84ball)	4Bank, 1.8V, CL3,3-3-3	1Q04		
	256Mb		64Mx4	DDR2 533 5-5-5	HY5PS56421F-C5	FBGA(60ball)	4Bank, 1.8V, CL5,5-5-5	1Q04
				DDR2 533 4-4-4	HY5PS56421F-C4	FBGA(60ball)	4Bank, 1.8V, CL4,4-4-4	1Q04
		DDR2 400 4-4-4		HY5PS56421F-E4	FBGA(60ball)	4Bank, 1.8V, CL4,4-4-4	1Q04	
		DDR2 400 3-3-3		HY5PS56421F-E3	FBGA(60ball)	4Bank, 1.8V, CL3,3-3-3	1Q04	
32Mx8		DDR2 667 6-6-6	HY5PS56821F-Y6	FBGA(60ball)	4Bank, 1.8V, CL6,6-6-6	4Q04		
		DDR2 667 5-5-5	HY5PS56821F-Y5	FBGA(60ball)	4Bank, 1.8V, CL5,5-5-5	4Q04		
		DDR2 533 5-5-5	HY5PS56821F-C5	FBGA(60ball)	4Bank, 1.8V, CL5,5-5-5	1Q04		
		DDR2 533 4-4-4	HY5PS56821F-C4	FBGA(60ball)	4Bank, 1.8V, CL4,4-4-4	1Q04		
		DDR2 400 4-4-4	HY5PS56821F-E4	FBGA(60ball)	4Bank, 1.8V, CL4,4-4-4	1Q04		
		DDR2 400 3-3-3	HY5PS56821F-E3	FBGA(60ball)	4Bank, 1.8V, CL3,3-3-3	1Q04		
		16Mx16	DDR2 667 6-6-6	HY5PS561621F-Y6	FBGA(84ball)	4Bank, 1.8V, CL6,6-6-6	4Q04	
			DDR2 667 5-5-5	HY5PS561621F-Y5	FBGA(84ball)	4Bank, 1.8V, CL5,5-5-5	4Q04	
DDR2 533 5-5-5	HY5PS561621F-C5		FBGA(84ball)	4Bank, 1.8V, CL5,5-5-5	2Q04			
DDR2 533 4-4-4	HY5PS561621F-C4		FBGA(84ball)	4Bank, 1.8V, CL4,4-4-4	2Q04			
DDR2 400 4-4-4	HY5PS561621F-E4		FBGA(84ball)	4Bank, 1.8V, CL4,4-4-4	2Q04			
DDR2 400 3-3-3	HY5PS561621F-E3		FBGA(84ball)	4Bank, 1.8V, CL3,3-3-3	2Q04			

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SDRAM COMPONENT

DENSITY	ORG.	SPEED	PART NUMBER	PKG	FEATURE	AVAIL		
512Mb (Stack)	16M x 32	PC133	HY5V72D(L)F-H	FBGA(90ball)	4Bank,3.3V,CL3/MCP	1Q04		
		PC100	HY5V72D(L)F-P	FBGA(90ball)	4Bank,3.3V,CL2/MCP	1Q04		
256Mb	64M x 4	PC133	HY57V56420B(L)T-H	TSOPII(54pin)	4Bank, 3.3V, CL3	EOL		
			HY57V56420C(L)T-H	TSOPII(54pin)	4Bank, 3.3V, CL3	1Q04		
		PC100	HY57V56420B(L)T-P	TSOPII(54pin)	4Bank, 3.3V, CL2	EOL		
			HY57V56420C(L)T-P	TSOPII(54pin)	4Bank, 3.3V, CL2	1Q04		
			HY57V56420B(L)T-S	TSOPII(54pin)	4Bank, 3.3V, CL3	EOL		
			HY57V56420C(L)T-S	TSOPII(54pin)	4Bank, 3.3V, CL3	1Q04		
	32M x 8	PC133	HY57V56820B(L)T-H	TSOPII(54pin)	4Bank, 3.3V, CL3	EOL		
			HY57V56420C(L)T-H	TSOPII(54pin)	4Bank, 3.3V, CL3	1Q04		
		PC100	HY57V56820B(L)T-P	TSOPII(54pin)	4Bank, 3.3V, CL2	EOL		
			HY57V56820C(L)T-P	TSOPII(54pin)	4Bank, 3.3V, CL2	1Q04		
			HY57V56820B(L)T-S	TSOPII(54pin)	4Bank, 3.3V, CL3	EOL		
			HY57V56820C(L)T-S	TSOPII(54pin)	4Bank, 3.3V, CL3	1Q04		
	16M x 16	PC133		HY57V561620B(L)T-H	TSOPII(54pin)	4Bank, 3.3V, CL3	EOL	
				HY57V561620C(L)T-H	TSOPII(54pin)	4Bank, 3.3V, CL3	Now	
		PC100		HY57V561620B(L)T-P	TSOPII(54pin)	4Bank, 3.3V, CL2	EOL	
				HY57V561620C(L)T-P	TSOPII(54pin)	4Bank, 3.3V, CL2	Now	
			HY57V561620B(L)T-S	TSOPII(54pin)	4Bank, 3.3V, CL3	EOL		
			HY57V561620C(L)T-S	TSOPII(54pin)	4Bank, 3.3V, CL3	Now		
			HY57V561620D(J)T-P	TSOPII(54pin)	4Bank, 3.3V, CL2	1Q04		
		166MHz (6ns)		HY57V561620C(L)T-6	TSOP(54pin)	4Bank, 3.3V, CL2	1Q04	
		143MHz (7ns)		HY57V561620C(L)T-7	TSOP(54pin)	4Bank, 3.3V, CL2	1Q04	
		PC133		HY5V56D(S/L)F-H	FBGA(54ball)	4Bank, 3.3V/3.3V	Now	
		8M x 32	PC133		HY5V52C(L)F-H	FBGA(90ball)	4Bank, 3.3V, CL3 / MCP	Now
			PC100		HY5V52C(L)F-P	FBGA(90ball)	4Bank, 3.3V, CL2 / MCP	Now
			HY5V52C(L)F-S	FBGA(90ball)	4Bank, 3.3V, CL3 / MCP	Now		
166MHz (6ns)			HY5V52C(L)F-6	FBGA(90ball)	4Bank, 3.3V, CL2 / MCP	Now		
128Mb	32M x 4	PC133	HY57V28420HC(L)T-H	TSOPII(54pin)	4Bank, 3.3V, CL3	Now		
		PC100	HY57V28420HC(L)T-P	TSOPII(54pin)	4Bank, 3.3V, CL2	Now		
			HY57V28420HC(L)T-S	TSOPII(54pin)	4Bank, 3.3V, CL3	Now		
		166MHz (6ns)		HY57V28420HC(L)T-6	TSOPII(54pin)	4Bank, 3.3V	Now	
	16M x 8	PC133	HY57V28820HCT-H	TSOPII(54pin)	4Bank, 3.3V, CL3	Now		
		PC100	HY57V28820HCT-P	TSOPII(54pin)	4Bank, 3.3V, CL2	Now		
			HY57V28820HCT-S	TSOPII(54pin)	4Bank, 3.3V, CL3	Now		
		166MHz (6ns)		HY57V28820HCT-6	TSOPII(54pin)	4Bank, 3.3V	Now	
		125MHz (8ns)		HY57V28820HCT-8	TSOPII(54pin)	4Bank, 3.3V	Now	
		PC133		HY5V28C(L/S)F-H	FBGA(54ball)	4Bank, 3.3V, CL3	Now	
		PC100		HY5V28C(L/S)F-P	FBGA(54ball)	4Bank, 3.3V, CL2	Now	
				HY5V28C(L/S)F-S	FBGA(54ball)	4Bank, 3.3V, CL3	Now	
		166MHz (6ns)		HY5V28C(L/S)F-6	FBGA(54ball)	4Bank, 3.3V	Now	
		125MHz (8ns)		HY5V28C(L/S)F-8	FBGA(54ball)	4Bank, 3.3V	Now	
		8M x 16	PC133	HY57V281620HC(L)T-H	TSOPII(54pin)	4Bank, 3.3V, CL3	Now	
			PC100	HY57V281620HC(L)T-P	TSOPII(54pin)	4Bank, 3.3V, CL2	Now	
			HY57V281620HC(L)T-S	TSOPII(54pin)	4Bank, 3.3V, CL3	Now		
	200MHz (5ns)			HY57V281620HC(L)T-5	TSOPII(54pin)	4Bank, 3.3V	Now	
	183MHz (5.5ns)			HY57V281620HC(L)T-55	TSOPII(54pin)	4Bank, 3.3V	Now	
	166MHz (6ns)			HY57V281620HC(L)T-6	TSOPII(54pin)	4Bank, 3.3V	Now	
	143MHz (7ns)			HY57V281620HC(L)T-7	TSOPII(54pin)	4Bank, 3.3V	Now	
	125MHz (8ns)			HY57V281620HC(L)T-8	TSOPII(54pin)	4Bank, 3.3V	Now	
	PC133			HY5V26C(L/S)F-H	FBGA(54ball)	4Bank, 3.3V, CL3	Now	
	PC100			HY5V26C(L/S)F-P	FBGA(54ball)	4Bank, 3.3V, CL2	Now	
			HY5V26C(L/S)F-S	FBGA(54ball)	4Bank, 3.3V, CL3	Now		

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SDRAM COMPONENT

DENSITY	ORG.	SPEED	PART NUMBER	PKG	FEATURE	AVAIL.				
128Mb	8M x 16	166MHz (6ns)	HY5V26C(L/S)F-6	FBGA(54ball)	4Bank, 3.3V	Now				
		125MHz (8ns)	HY5V26C(L/S)F-8	FBGA(54ball)	4Bank, 3.3V	Now				
	4M x 32	PC133		HY57V283220T-H	TSOPII(86pin)	4Bank, 3.3V, CL3	Now			
				HY57V283220T-P	TSOPII(86pin)	4Bank, 3.3V, CL2	Now			
		183MHz (5.5ns)	PC100		HY57V283220T-S	TSOPII(86pin)	4Bank, 3.3V, CL3	Now		
					HY57V283220T-55	TSOPII(86pin)	4Bank, 3.3V	Now		
					HY57V283220T-6	TSOPII(86pin)	4Bank, 3.3V	Now		
					HY57V283220T-7	TSOPII(86pin)	4Bank, 3.3V	Now		
					HY5V22F-H	FBGA(90ball)	4Bank, 3.3V	Now		
					HY5V22AF-H	FBGA(90ball)	4Bank, 3.3V	2Q04		
				166MHz (6ns)	PC100		HY5V22F-P	FBGA(90ball)	4Bank, 3.3V	Now
							HY5V22AF-P	FBGA(90ball)	4Bank, 3.3V	2Q04
			HY5V22F-S			FBGA(90ball)	4Bank, 3.3V	Now		
			HY5V22AF-S			FBGA(90ball)	4Bank, 3.3V	2Q04		
		143MHz (7ns)	PC133				HY5W22F-H	FBGA(90ball)	4Bank, 2.5V,CL3	Now
							HY5W22AF-H	FBGA(90ball)	4Bank, 2.5V,CL3	2Q04
							HY5W22F-P	FBGA(90ball)	4Bank, 2.5V, CL2	Now
							HY5W22AF-P	FBGA(90ball)	4Bank, 2.5V, CL2	2Q04
					HY5W22F-S	FBGA(90ball)	4Bank, 2.5V, CL3	Now		
					HY5W22AF-S	FBGA(90ball)	4Bank, 2.5V, CL3	2Q04		
				183MHz (5.5ns)	PC100		HY5V22F-55	FBGA(90ball)	4Bank, 3.3V	Now
							HY5V22AF-55	FBGA(90ball)	4Bank, 3.3V	2Q04
			HY5V22FP-6			FBGA(90ball)	4Bank, 3.3V	Now		
			HY5V22AF-6			FBGA(90ball)	4Bank, 3.3V	2Q04		
		166MHz (6ns)	PC100				HY5V22F-7	FBGA(90ball)	4Bank, 3.3V	Now
							HY5V22AF-7	FBGA(90ball)	4Bank, 3.3V	2Q04
							HY5W22F-55	FBGA(90ball)	4Bank, 2.5V	Now
							HY5W22AF-55	FBGA(90ball)	4Bank, 2.5V	2Q04
				143MHz (7ns)	PC100		HY5W22F-6	FBGA(90ball)	4Bank, 2.5V	Now
							HY5W22AF-6	FBGA(90ball)	4Bank, 2.5V	2Q04
						HY5W22F-7	FBGA(90ball)	4Bank, 2.5V	Now	
						HY5W22AF-7	FBGA(90ball)	4Bank, 2.5V	2Q04	
183MHz (5.5ns)	PC100		HY5V64420HG(L)T-K			TSOP-II(54pin)	4 Bank, 3.3V	Now		
			HY5V64420HG(L)T-H			TSOP-II(54pin)	4 Bank, 3.3V	Now		
		166MHz (6ns)	PC100				HY57V64420HG(L)T-P	TSOP-II(54pin)	4 Bank, 3.3V	Now
							HY57V64420HG(L)T-S	TSOP-II(54pin)	4 Bank, 3.3V	Now
		143MHz (7ns)	PC100		HY57V64420HG(L)T-6	TSOP-II(54pin)	4 Bank, 3.3V	Now		
					HY57V64420HG(L)T-7	TSOP-II(54pin)	4 Bank, 3.3V	Now		
		64Mb	16M x 4	PC133		HY57V64820HGT-K	TSOP-II(54pin)	4 Bank, 3.3V	Now	
						HY57V64820HGT-H	TSOP-II(54pin)	4 Bank, 3.3V	Now	
	HY57V64820HGT-P				TSOP-II(54pin)	4 Bank, 3.3V	Now			
	HY57V64820HGT-S				TSOP-II(54pin)	4 Bank, 3.3V	Now			
166MHz (6ns)	PC100				HY57V64820HGT-6	TSOP-II(54pin)	4 Bank, 3.3V	Now		
					HY57V64820HGT-7	TSOP-II(54pin)	4 Bank, 3.3V	Now		
				8M x 8	PC133		HY57V641620HG(L)T-K	TSOP-II(54pin)	4 Bank, 3.3V	Now
							HY57V641620HG(L)T-H	TSOP-II(54pin)	4 Bank, 3.3V	Now
200MHz (5ns)	PC100					HY57V641620HG(L)T-P	TSOP-II(54pin)	4 Bank, 3.3V	Now	
						HY57V641620HG(L)T-S	TSOP-II(54pin)	4 Bank, 3.3V	Now	
183MHz (5.5ns)	PC100				HY57V641620HG(L)T-5	TSOP-II(54pin)	4 Bank, 3.3V	Now		
					HY57V641620HG(L)T-55	TSOP-II(54pin)	4 Bank, 3.3V	Now		
			166MHz (6ns)		PC100		HY57V641620HG(L)T-6	TSOP-II(54pin)	4 Bank, 3.3V	Now
							HY57V641620HG(L)T-6	TSOP-II(54pin)	4 Bank, 3.3V	Now
143MHz (7ns)	PC133					HY5V66GF-H	FBGA(60Ball)	4 Bank, 3.3V	Now	
						HY5V66GF-P	FBGA(60Ball)	4 Bank, 3.3V	Now	
		166MHz (6ns)	PC100		HY57V641620HG(L)T-7	TSOP-II(54pin)	4 Bank, 3.3V	Now		
					HY5V66GF-H	FBGA(60Ball)	4 Bank, 3.3V	Now		
	HY5V66GF-P			FBGA(60Ball)	4 Bank, 3.3V	Now				
	HY57V641620HG(L)T-7			TSOP-II(54pin)	4 Bank, 3.3V	Now				

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SDRAM COMPONENT

DENSITY	ORG.	SPEED	PART NUMBER	PKG	FEATURE	AVAIL.
	2M x 32	212MHz(4.7ns)	HY57V643220CT-47	TSOP-II(86Pin)	4 Bank, 3.3V	Now
64Mb	2M x 32	200MHz (5ns)	HY57V643220CT-5	TSOP-II(86pin)	4Bank,3.3V	Now
			HY57V643220DT-5	TSOP-II(86pin)	4Bank,3.3V	4Q04
		183MHz (5.5ns)	HY57V643220CT-55	TSOP-II(86pin)	4Bank,3.3V	Now
			HY57V643220DT-55	TSOP-II(86pin)	4Bank,3.3V	4Q04
		166MHz (6ns)	HY57V643220CT-6	TSOP-II(86pin)	4Bank,3.3V	Now
			HY57V643220DT-6	TSOP-II(86pin)	4Bank,3.3V	4Q04
		143MHz (7ns)	HY57V643220CT-7	TSOP-II(86pin)	4Bank,3.3V	Now
			HY57V643220DT-7	TSOP-II(86pin)	4Bank,3.3V	4Q04
			HY5V62CF-7	FBGA(90Ball)	4Bank,3.3V, CSP	Now
		125MHz (8ns)	HY57V643220CT-8	TSOP-II(86pin)	4Bank,3.3V	Now
			HY57V643220DT-8	TSOP-II(86pin)	4Bank,3.3V	4Q04
		100MHz (10ns)	HY57V643220CT-SC	TSOP-II(86pin)	4Bank,3.3V	Now
			HY5V62CF-S	FBGA(90Ball)	4Bank,3.3V, CSP	Now
16Mb	1M x 16	200MHz (5ns)	HY57V161610DTC-5	TSOPII(50pin)	2Bank, 3.3V	Now
			HY57V161610ET-5	TSOPII(50pin)	2Bank, 3.3V	Now
		183MHz (5.5ns)	HY57V161610DTC-55	TSOPII(50pin)	2Bank, 3.3V	Now
			HY57V161610ET-55	TSOPII(50pin)	2Bank, 3.3V	Now
		166MHz (6ns)	HY57V161610DTC-6	TSOPII(50pin)	2Bank, 3.3V	Now
			HY57V161610ET-6	TSOPII(50pin)	2Bank, 3.3V	Now
		143MHz (7ns)	HY57V161610DTC-7	TSOPII(50pin)	2Bank, 3.3V	Now
			HY57V161610ET-7	TSOPII(50pin)	2Bank, 3.3V	Now
			GM72V161621ET-7	TSOPII(50pin)	2Bank, 3.3V	Now
		125MHz (8ns)	HY57V161610DTC-8	TSOPII(50pin)	2Bank, 3.3V	Now
			GM72V161621ET-8	TSOPII(50pin)	2Bank, 3.3V	Now
		100MHz (10ns)	HY57V161610DTC-10	TSOPII(50pin)	2Bank, 3.3V	Now

* All SDRAM is available for Lead Free and IT-part

DRAM

GRAPHICS DDR SDRAM

DENSITY	ORG.	SPEED	PART NUMBER	PKG	FEATURE	AVAIL
256Mb	16Mx16	400MHz (2.5ns)	HY5DU561622CT-25	TSOPII(66pin)	4Bank, 2.8V/2.8V	Now
			HY5DU561622DT-25	TSOPII(66pin)	4Bank, 2.5V/2.5V	1Q04
		350MHz (2.8ns)	HY5DU561622CT-28	TSOPII(66pin)	4Bank, 2.8V/2.8V	Now
			HY5DU561622DT-28	TSOPII(66pin)	4Bank, 2.5V/2.5V	1Q04
		300MHz (3.3ns)	HY5DU561622CT-33	TSOPII(66pin)	4Bank, 2.6V/2.6V	Now
			HY5DU561622DT-33	TSOPII(66pin)	4Bank, 2.5V/2.5V	1Q04
		275MHz (3.6ns)	HY5DU561622CT-36	TSOPII(66pin)	4Bank, 2.6V/2.6V	Now
			HY5DU561622DT-36	TSOPII(66pin)	4Bank, 2.5V/2.5V	1Q04
		250MHz (4ns)	HY5DU561622CT-4	TSOPII(66pin)	4Bank, 2.5V/2.5V	Now
			HY5DU561622DT-4	TSOPII(66pin)	4Bank, 2.5V/2.5V	1Q04
		200MHz (5ns)	HY5DU561622CT-5	TSOPII(66pin)	4Bank, 2.5V/2.5V	Now
			HY5DU561622DT-5	TSOPII(66pin)	4Bank, 2.5V/2.5V	1Q04
		166MHz (6ns)	HY5DU561622CT-6	TSOPII(66pin)	4Bank, 2.5V/2.5V	Now
			HY5DU561622DT-6	TSOPII(66pin)	4Bank, 2.5V/2.5V	1Q04
	8Mx32	500MHz (2.0ns)	HY5DU573222F-2	FBGA(144ball)	4Bank, 2.5V/2.5V	1Q04
			HY5DW573222F-2	FBGA(144ball)	4Bank, 2.5V/1.8V	1Q04
		400MHz (2.5ns)	HY5DU573222AFM-25	FBGA(144ball)	4Bank, 2.8V/2.8V	Now
			HY5DU573222F-25	FBGA(144ball)	4Bank, 2.5V/2.5V	1Q04
			HY5DW573222F-25	FBGA(144ball)	4Bank, 2.5V/1.8V	1Q04
		350MHz (2.8ns)	HY5DU573222AFM-28	FBGA(144ball)	4Bank, 2.8V/2.8V	Now
			HY5DU573222F-28	FBGA(144ball)	4Bank, 2.5V/2.5V	1Q04
			HY5DW573222F-28	FBGA(144ball)	4Bank, 2.5V/1.8V	1Q04
			HY5DS573222F-28	FBGA(144ball)	4Bank, 1.8V/1.8V	2Q04
		300MHz (3.3ns)	HY5DU573222AFM-33	FBGA(144ball)	4Bank, 2.5V/2.5V	Now
			HY5DU573222F-33	FBGA(144ball)	4Bank, 2.5V/2.5V	1Q04
			HY5DW573222F-33	FBGA(144ball)	4Bank, 2.5V/1.8V	1Q04
			HY5DS573222F-33	FBGA(144ball)	4Bank, 1.8V/1.8V	2Q04
		275MHz (3.6ns)	HY5DU573222AFM-36	FBGA(144ball)	4Bank, 2.5V/2.5V	Now
	HY5DU573222F-36	FBGA(144ball)	4Bank, 2.5V/2.5V	1Q04		
	HY5DW573222F-36	FBGA(144ball)	4Bank, 2.5V/1.8V	1Q04		
	HY5DS573222F-36	FBGA(144ball)	4Bank, 1.8V/1.8V	2Q04		
250MHz (4ns)	HY5DU573222F-4	FBGA(144ball)	4Bank, 2.5V/2.5V	1Q04		
	HY5DW573222F-4	FBGA(144ball)	4Bank, 2.5V/1.8V	1Q04		
	HY5DS573222F-4	FBGA(144ball)	4Bank, 1.8V/1.8V	2Q04		
128Mb	8Mx16	400Mhz(2.5ns)	HY5DU281622ET-25	TSOPII(66pin)	4Bank, 2.8V/2.8V	Now
		375Mhz(2.6ns)	HY5DU281622ET-26	TSOPII(66pin)	4Bank, 2.8V/2.8V	Now
		350Mhz(2.8ns)	HY5DU281622ET-28	TSOPII(66pin)	4Bank, 2.8V/2.8V	Now
		333Mhz(3ns)	HY5DU281622ET-30	TSOPII(66pin)	4Bank, 2.8V/2.8V	Now
		300Mhz(3.3ns)	HY5DU281622ET-33	TSOPII(66pin)	4Bank, 2.8V/2.8V	Now
		275Mhz(3.6ns)	HY5DU281622ET-36	TSOPII(66pin)	4Bank, 2.5V/2.5V	Now
			HY5DV281622DT-36	TSOPII(66pin)	4Bank, 3.3V/2.5V	Now
		250Mhz(4ns)	HY5DU281622ET-4	TSOPII(66pin)	4Bank, 2.5V/2.5V	Now
			HY5DV281622DT-4	TSOPII(66pin)	4Bank, 3.3V/2.5V	Now
		200Mhz(5ns)	HY5DU281622ET-5	TSOPII(66pin)	4Bank, 2.5V/2.5V	Now
			HY5DV281622DT-5	TSOPII(66pin)	4Bank, 3.3V/2.5V	Now
		166Mhz(6ns)	HY5DU281622ET-6	TSOPII(66pin)	4Bank, 2.5V/2.5V	Now
			HY5DU281622DT-6	TSOPII(66pin)	4Bank, 2.5V/2.5V	Now
		4Mx32	500MHz (2ns)	HY5DU283222AF-2	FBGA(144ball)	4Bank, 2.8V/2.8V
	450MHz (2.5ns)		HY5DU283222AF-22	FBGA(144ball)	4Bank, 2.8V/2.8V	Now
	400MHz (2.5ns)		HY5DU283222AF-25	FBGA(144ball)	4Bank, 2.8V/2.8V	Now
	350MHz (2.8ns)		HY5DU283222AF-28	FBGA(144ball)	4Bank, 2.8V/2.8V	Now
	300MHz (3.3ns)		HY5DU283222AF-33	FBGA(144ball)	4Bank, 2.5V/2.5V	Now
			HY5DU283222AQ-33	LQFP(100pin)	4Bank, 2.5V/2.5V	Now
	275MHz (3.6ns)		HY5DU283222AF-36	FBGA(144ball)	4Bank, 2.5V/2.5V	Now
			HY5DU283222AQ-36	LQFP(100pin)	4Bank, 2.5V/2.5V	Now
	250MHz (4ns)		HY5DU283222AQ-4	LQFP(100pin)	4Bank, 2.5V/2.5V	Now
	200MHz (5ns)		HY5DU283222AQ-5	LQFP(100pin)	4Bank, 2.5V/2.5V	Now

DRAM

GRAPHICS DDR SDRAM

DENSITY	ORG.	SPEED	PART NUMBER	PKG	FEATURE	AVAIL.
64Mb	4Mx16	300MHz (3.3ns)	HY5DV641622AT-33	TSOPII(66pin)	4Bank, 3.3V/2.5V	EOL
		275MHz (3.6ns)	HY5DV641622AT-36	TSOPII(66pin)	4Bank, 3.3V/2.5V	EOL
		250MHz (4ns)	HY5DV641622AT-4	TSOPII(66pin)	4Bank, 3.3V/2.5V	EOL
	2Mx32	200MHz (5ns)	HY5DV641622AT-5	TSOPII(66pin)	4Bank, 3.3V/2.5V	EOL
		250MHz (4ns)	HY5DU643222AQ-4	LQFP(100pin)	4Bank, 2.5V/2.5V	EOL
		200MHz (5ns)	HY5DU643222AQ-5	LQFP(100pin)	4Bank, 2.5V/2.5V	EOL
		143MHz (7ns)	HY5DU643222AQ-7	LQFP(100pin)	4Bank, 2.5V/2.5V	EOL

GRAPHICS DDR3 SDRAM

DENSITY	ORG.	SPEED	PART NUMBER	PKG	FEATURE	AVAIL.
512Mb	16Mx32	1Ghz(1ns)	HY5RS113225F-1	FBGA(136ball)	8Bank, 1.8V/1.8V	3Q04
		900Mhz(1.1ns)	HY5RS113225F-11	FBGA(136ball)	8Bank, 1.8V/1.8V	3Q04
		800Mhz(1.2ns)	HY5RS113225F-12	FBGA(136ball)	8Bank, 1.8V/1.8V	3Q04
		700Mhz(1.4ns)	HY5RS113225F-14	FBGA(136ball)	8Bank, 1.8V/1.8V	3Q04
		600Mhz(1.6ns)	HY5RS113225F-16	FBGA(136ball)	8Bank, 1.8V/1.8V	3Q04
256Mb	8Mx32	800Mhz(1.2ns)	HY5RS573225F-12	FBGA(144ball)	4Bank, 1.8V/1.8V	Now
		750Mhz(1.3ns)	HY5RS573225F-13	FBGA(144ball)	4Bank, 1.8V/1.8V	Now
		700Mhz(1.4ns)	HY5RS573225F-14	FBGA(144ball)	4Bank, 1.8V/1.8V	Now
		650Mhz(1.5ns)	HY5RS573225F-15	FBGA(144ball)	4Bank, 1.8V/1.8V	Now
		600Mhz(1.6ns)	HY5RS573225F-16	FBGA(144ball)	4Bank, 1.8V/1.8V	Now
		550Mhz(1.8ns)	HY5RS573225F-18	FBGA(144ball)	4Bank, 1.8V/1.8V	Now
		500Mhz(2ns)	HY5RS573225F-20	FBGA(144ball)	4Bank, 1.8V/1.8V	Now
		450Mhz(2.2ns)	HY5RS573225F-22	FBGA(144ball)	4Bank, 1.8V/1.8V	Now

HANDY SDRAM

DENSITY	ORG.	SPEED	PART NUMBER	PKG	FEATURE	AVAIL.
512Mb	16M x 32	133MHz (7.5ns)	HY5W7A2D(L/S)F(P)-HF	FBGA(90ball)	4Bank, 3.0V/3.0V	1Q04
		105MHz (9.5ns)	HY5W7A2D(L/S)F(P)-PF	FBGA(90ball)	4Bank, 3.0V/3.0V	1Q04
256Mb	16M x 16	133MHz (7.5ns)	HY5Y5A6D(L/S)F(P)-HF	FBGA(54ball)	4Bank, 3.0/3.0V	Now
			HY5W5A6D(L/S)F(P)-HF	FBGA(54ball)	4Bank, 2.5V/2.5V	Now
		105MHz (9.5ns)	HY5Y5A6D(L/S)F(P)-PF	FBGA(54ball)	4Bank, 3.0V/3.0V	Now
			HY5W5A6D(L/S)F(P)-PF	FBGA(54ball)	4Bank, 2.5V/2.5V	Now
			HY5S5A6D(L/S)F(P)-SE	FBGA(54ball)	4Bank, 1.8V/1.8V	Now
128Mb	8M x 16	133MHz (7.5ns)	HY5Y2A6D(L/S)F(P)-HE	FBGA(54ball)	4Bank, 3.0V/3.0V	1Q04
			HY5Y2A6D(L/S)F(P)-PE	FBGA(54ball)	4Bank, 3.0V/3.0V	1Q04
		105MHz (9.5ns)	HY5S2A6D(L/S)F(P)-SE	FBGA(54ball)	4Bank, 1.8V/1.8V	1Q04
	4M x 32	105MHz (9.5ns)	HY5S2A2A(L/S)F(P)-SE	FBGA(90ball)	4Bank, 1.8V/1.8V	2Q04
64Mb	4M x 16	133MHz (7.5ns)	HY5Y6B6D(L/S)F(P)-HE	FBGA(54ball)	4Bank, 3.0V/3.0V	1Q04
		105MHz (9.5ns)	HY5Y6B6D(L/S)F(P)-PE	FBGA(54ball)	4Bank, 3.0V/3.0V	1Q04
			HY5S6B6D(L/S)F(P)-SE	FBGA(54ball)	4Bank, 1.8V/1.8V	1Q04

DRAM

EDO/ FP DRAM COMPONENT

DENSITY	ORG.	SPEED	PART NUMBER	PKG	FEATURE	AVAIL.	
64Mb EDO	16M x 4	50ns	GM71V64403CT-5	TSOPII(32pin)	8K Ref, 3.3V, C- ver	EOL	
		60ns	GM71V64403CT-6	TSOPII(32pin)	8K Ref, 3.3V, C- ver	EOL	
		50ns	GM71V65403CJ-5	SOJ(32Pin)	4K Ref, 3.3V, C- ver	EOL	
		60ns	GM71V65403CJ-6	SOJ(32Pin)	4K Ref, 3.3V, C- ver	EOL	
		50ns	GM71V65403CT-5	TSOPII(32pin)	4K Ref, 3.3V, C- ver	EOL	
		60ns	GM71V65403CT-6	TSOPII(32pin)	4K Ref, 3.3V, C- ver	EOL	
		60ns	GM71VS65403CLT-6	TSOPII(32pin)	4K Ref, 3.3V, C- ver	EOL	
		50ns	HY51V64403HGT-5	TSOPII(32pin)	8K Ref, 3.3V, C- ver	EOL	
	8M x 8	60ns	HY51V64403HGT-6	TSOPII(32pin)	8K Ref, 3.3V, C- ver	EOL	
		50ns	HY51V65403HGT-5	TSOPII(32pin)	4K Ref, 3.3V, C- ver	EOL	
		50ns	GM71V64803CJ-5	SOJ(32pin)	8K Ref, 3.3V, C-ver	EOL	
		60ns	GM71V64803CJ-6	SOJ(32pin)	8K Ref, 3.3V, C-ver	EOL	
		50ns	GM71V64803CT-5	TSOPII(32pin)	8K Ref, 3.3V, C-ver	EOL	
		60ns	GM71V64803CT-6	TSOPII(32pin)	8K Ref, 3.3V, C-ver	EOL	
		50ns	GM71V65803CT-5	TSOPII(32pin)	4K Ref, 3.3V, C-ver	EOL	
		60ns	GM71V65803CT-6	TSOPII(32pin)	4K Ref, 3.3V, C-ver	EOL	
		50ns	GM71VS64803CLT-5	TSOPII(32pin)	8K Ref, 3.3V, C-ver	EOL	
		50ns	GM71VS65803CLT-5	TSOPII(32pin)	4K Ref, 3.3V, C-ver	EOL	
		60ns	GM71VS65803CLT-6	TSOPII(32pin)	4K Ref, 3.3V, C-ver	EOL	
		50ns	HY51V64803HGT-5	TSOPII(32pin)	8K Ref, 3.3V, G-ver	EOL	
		60ns	HY51V64803HGT-6	TSOPII(32pin)	8K Ref, 3.3V, G-ver	EOL	
		50ns	HY51V65803HGT-5	TSOPII(32pin)	4K Ref, 3.3V, G-ver	EOL	
		60ns	HY51V65803HGT-6	TSOPII(32pin)	4K Ref, 3.3V, G-ver	EOL	
		50ns	HY51V65803HGLT-5	TSOPII(32pin)	4K Ref, 3.3V, G-ver	EOL	
		60ns	HY51V65803HGLT-6	TSOPII(32pin)	4K Ref, 3.3V, G-ver	EOL	
		60ns	HY51VS65803HGLT-6	TSOPII(32pin)	4K Ref, 3.3V, G-ver	EOL	
		4M x 16	50ns	GM71V65163CT-5	TSOPII(32pin)	4K Ref, 3.3V, C-ver	EOL
			60ns	GM71V65163CT-6	TSOPII(32pin)	4K Ref, 3.3V, C-ver	EOL
	50ns		GM71VS65163CLT-5	TSOPII(32pin)	4K Ref, 3.3V, C-ver	EOL	
	60ns		GM71VS65163CLT-6	TSOPII(32pin)	4K Ref, 3.3V, C-ver	EOL	
50ns	HY51V65173HGT-5		TSOPII(32pin)	4K Ref, 3.3V, G-ver	EOL		
60ns	HY51V65173HGT-6		TSOPII(32pin)	4K Ref, 3.3V, G-ver	EOL		
50ns	HY51VS65173HGLT-5		TSOPII(32pin)	4K Ref, 3.3V, G-ver	EOL		
60ns	HY51VS65173HGLT-6		TSOPII(32pin)	4K Ref, 3.3V, G-ver	EOL		
64Mb FP	16M x 4	50ns	GM71V64400CT -5	TSOPII(32pin)	8K Ref, 3.3V, C-ver	EOL	
		60ns	GM71V64400CT-6	TSOPII(32pin)	8K Ref, 3.3V, C-ver	EOL	
		50ns	HY51V64400HGT-5	TSOPII(32pin)	8K Ref, 3.3V, G-ver	EOL	
		60ns	HY51V64400HGT-6	TSOPII(32pin)	8K Ref, 3.3V, G-ver	EOL	
		50ns	HY51V65400HGT-5	TSOPII(32pin)	4K Ref, 3.3V, G-ver	EOL	
		60ns	HY51V65400HGT-6	TSOPII(32pin)	4K Ref, 3.3V, G-ver	EOL	
	8M x 8	50ns	GM71V65800CT-5	TSOPII(32pin)	4K Ref, 3.3V, C-ver	EOL	
	16M FP & EDO	4MX4	100	GM71VLS17403CLT-1	TSOPII(24pin)	2K Ref, 3.3V,C-ver	EOL
				GM71C16403CJ-5	SOJ(24pin)	4K Ref, 5V, C-ver	EOL
			60	GM71C16403CJ-5DR	SOJ(24pin)	4K Ref, 5V, C-ver	EOL
GM71C17403CJ-5				SOJ(24pin)	2K Ref, 5V, C-ver	EOL	
GM71C16400CJ-6				SOJ(24pin)	4K Ref, 5V, C-ver	EOL	
GM71C16400CT-6				TSOPII(24pin)	4K Ref, 5V,C-ver	EOL	
GM71C16400CT-6DR				TSOPII(24pin)	4K Ref, 5V,C-ver	EOL	
GM71C16403CT-6				TSOPII(24pin)	4K Ref, 5V,C-ver	EOL	
GM71C17403CT-6				TSOPII(24pin)	2K Ref, 5V,C-ver	EOL	
GM71V16400CT-6				TSOPII(24pin)	4K Ref, 3.3V,C-ver	EOL	
GM71V16403CJ-6				SOJ(24pin)	4K Ref, 3.3V, C-ver	EOL	
GM71V16403CT-6				TSOPII(24pin)	4K Ref, 3.3V,C-ver	EOL	

DRAM

EDO/ FP DRAM COMPONENT

DENSITY	ORG.	SPEED	PART NUMBER	PKG	FEATURE	AVAIL.		
16M FP & EDO	4MX4	60	GM71V17403CJ-6	SOJ(24pin)	2K Ref, 3.3V, C-ver	EOL		
			GM71V17403CT-6	TSOPII(24pin)	2K Ref, 3.3V,C-ver	EOL		
			GM71VS16400CLT-6	TSOPII(24pin)	4K Ref, 3.3V,C-ver	EOL		
			GM71VS16403CLT-6	TSOPII(24pin)	4K Ref, 3.3V,C-ver	EOL		
	2MX8	60	GM71C17800CJ-6	SOJ(28pin)	2K Ref, 5V, C-ver	EOL		
			GM71C17803CJ-6	SOJ(28pin)	2K Ref, 5V, C-ver	EOL		
			GM71C17803CJ-6DR	SOJ(28pin)	2K Ref, 5V, C-ver	EOL		
			GM71CS17803CLJ-6	SOJ(28pin)	2K Ref, 5V, C-ver	EOL		
			GM71CS17803CLJ-6DR	SOJ(28pin)	2K Ref, 5V, C-ver	EOL		
			GM71V17803CI-6	TSOPII(28pin)	2K Ref, 3.3V,C-ver	EOL		
			GM71V17803CJ-6	SOJ(28pin)	2K Ref, 3.3V, C-ver	EOL		
			GM71V17803CJ-6DR	SOJ(28pin)	2K Ref, 3.3V, C-ver	EOL		
			GM71V17803CT-6	TSOPII(28pin)	2K Ref, 3.3V,C-ver	EOL		
			GM71VS17803CLI-6	TSOPII(28pin)	2K Ref, 3.3V,C-ver	EOL		
			1MX16	50	GM71C18160CJ-5	SOJ(42pin)	1K Ref, 5V, C-ver	EOL
					GM71C18163CJ-5	SOJ(42pin)	1K Ref, 5V, C-ver	EOL
	GM71C18163CT-5	TSOPII(44pin)			1K Ref, 5V,C-ver	EOL		
	GM71C18163CT-5DR	TSOPII(44pin)			1K Ref, 5V,C-ver	EOL		
	GM71V18163CT-5	TSOPII(44pin)			1K Ref, 3.3V,C-ver	EOL		
	GM71VS16160CLT-5	TSOPII(44pin)			4K Ref, 3.3V,C-ver	EOL		
	GM71VS16163CLT-5	TSOPII(44pin)			4K Ref, 3.3V,C-ver	EOL		
	GM71VS18163CLT-5	TSOPII(44pin)			1K Ref, 3.3V,C-ver	EOL		
	60	GM71C16160CT-6			TSOPII(44pin)	4K Ref, 5V,C-ver	EOL	
		GM71C16160CT-6DR			TSOPII(44pin)	4K Ref, 5V,C-ver	EOL	
		GM71C16163CT-6			TSOPII(44pin)	4K Ref, 5V,C-ver	EOL	
		GM71C18160CJ-6			SOJ(42pin)	1K Ref, 5V, C-ver	EOL	
		GM71C18160CJ-6E		SOJ(42pin)	1K Ref, 5V, C-ver	EOL		
		GM71C18160CT-6		TSOPII(44pin)	1K Ref, 5V,C-ver	EOL		
		GM71C18163CT-6		TSOPII(44pin)	1K Ref, 5V,C-ver	EOL		
		GM71C18163CT-6DR		TSOPII(44pin)	1K Ref, 5V,C-ver	EOL		
		GM71V16160CT-6		TSOPII(44pin)	4K Ref, 3.3V,C-ver	EOL		
		GM71V16163CT-6		TSOPII(44pin)	4K Ref, 3.3V,C-ver	EOL		
		GM71V18160CT-6		TSOPII(44pin)	1K Ref, 3.3V,C-ver	EOL		
GM71V18163CJ-6		SOJ(42pin)		1K Ref, 3.3V, C-ver	EOL			
GM71V18163CJ-6DR		SOJ(42pin)		1K Ref, 3.3V, C-ver	EOL			
GM71V18163CJ-6EDR		SOJ(42pin)		1K Ref, 3.3V, C-ver	EOL			
GM71V18163CT-6		TSOPII(44pin)		1K Ref, 3.3V,C-ver	EOL			
GM71VS16160CLT-6	TSOPII(44pin)	4K Ref, 3.3V,C-ver		EOL				
GM71VS16163CLT-6	TSOPII(44pin)	4K Ref, 3.3V,C-ver		EOL				
GM71VS18160CLT-6	TSOPII(44pin)	1K Ref, 3.3V,C-ver		EOL				
GM71VS18163CLJ-6DR	SOJ(42pin)	1K Ref, 3.3V, C-ver		EOL				
GM71VS18163CLT-6	TSOPII(44pin)	1K Ref, 3.3V,C-ver	EOL					
HY51V18160HGTP-6	TSOPII(44pin)	1K Ref, 3.3V, G-ver	EOL					
HY51V18160HGTP-6DR	TSOPII(44pin)	1K Ref, 3.3V,G-ver	EOL					
HY51V18163HGTP-6	TSOPII(44pin)	1K Ref, 3.3V,G-ver	EOL					