



DDR SDRAM PART NUMBERING

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
HYNIX MEMORY	H	5	X	X	XX	X	X	X	X	X	X	-	XX	X
PRODUCT FAMILY														
5 : DRAM														
PRODUCT MODE														
D : DDR														
POWER SUPPLY														
U : VDD = 2.5V & VDDQ = 2.5V														
DENSITY & REFRESH														
64 : 64M / 4K REF / 64ms														
12 : 128M / 4K REF / 64ms														
25 : 256M / 8K REF / 64ms														
51 : 512M / 8K REF / 64ms														
ORGANIZATION CODE														
8 : x8														
6 : x16														
2 : x32														
NUMBER OF BANKS														
1 : 2 Banks														
2 : 4 Banks														
OPERATING TEMPERATURE & POWER CONSUMPTION														
C : Commercial Temp ¹⁾ Normal Power														
E : Extended Temp ²⁾ & Normal Power														
I : Industrial Temp ³⁾ & Normal Power														
L : Commercial Temp ¹⁾ & Low Power														
G : Extended Temp ²⁾ & Low Power														
J : Industrial Temp ³⁾ & Low Power														
SPEED(tCL-tRCD-tRP)														
K2 : DDR266A 2-3-3														
K3 : DDR266B 2.5-3-3														
J3 : DDR333 2.5-3-3														
E3 : DDR400 3-3-3														
E4 : DDR400 3-4-4														
F4 : DDR500 3-4-4														
FA : DDR500 4-4-4														
FB : DDR500 4-3-3														
PACKAGE MATERIAL														
L : Leaded														
P : Lead free (ROHS ⁴⁾ Compliant)														
R : Lead & Halogen free (ROHS ⁴⁾ Compliant)														
A : Wafer only														
PACKAGE TYPE														
T : TSOP-II														
F : FBGA (Wire Bond)														
M : FBGA / DDP (Dual Die Package)														
W : Wafer														
K : KGD														
DIE GENERATION														
M : 1st														
A : 2nd														
B : 3rd														
C : 4th														
D : 5th														
E : 6th														
F : 7th														
G : 8th														

Note:

1) Commercial Temperature : 0 ~70

2) Extended Temperature: -25 ~85

3) Industrial Temperature: -40 ~85

4) ROHS : Restriction Of Hazardous Substances