

## SDRAM PART NUMBERING

HY 5X X XXX XX X X X X - XX XX

**HYUNDAI**  
Memory Products

**PRODUCT GROUP**

57 : SDRAM  
5D : DDR SDRAM

**PROCESS & POWER SUPPLY**

BLANK : CMOS, 5.0V  
V : CMOS, 3.3V  
U : CMOS, 2.5V

**DENSITY & REFRESH**

16 : 16M bits, 4K Ref.  
64 : 64M bits, 8K Ref.  
65 : 64M bits, 4K Ref.  
128 : 128M bits, 8K Ref.  
129 : 128M bits, 4K Ref.  
256 : 256M bits, 16K Ref.  
257 : 256M bits, 8K Ref..

**DATA WIDTH**

40 : x4  
80 : x8  
16 : x16  
32 : x32

**BANK**

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

**SPEED\***

7 : 7ns (143MHz)  
8 : 8ns (125MHz)  
10P : PC100 CL2&3  
10S : PC100 CL3  
10 : 10ns (100MHz)  
12 : 12ns (83MHz)  
15 : 15ns (66MHz)

**PACKAGE**

JC : 400mil SOJ  
TC : 400mil TSOP-II  
TD : 13mm TSOP-II  
TG : 16mm TSOP-II

**POWER CONSUMPTION**

BLANK : Normal Power  
L : Low Power

**DIE GENERATION**

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

**INTERFACE**

0 : LVTTL  
1 : SSTL(3)  
2 : SSTL\_2  
3 : Mixed Interface