**Part Number Decoder**

**GSI**

**P** = Product Line Code  
(1 digit)  
4 = LLDRAM  
8 = Sync SRAM  
7 = Async SRAM  

**DDD** = Density / Product Family  
(Up to 3 digits)  
0 = 256K  
1 = 1Mb  
2 = 2Mb  
3 = 3Mb  
4 = 4 or 4.5Mb  
6 = 6Mb  
8 = 8 or 9Mb  
16, 17, 18 = 16 or 18Mb  
32, 33, 34 = 32 or 36Mb  
64, 65, 66, 67 = 64 or 72Mb  
128, 129, 130, 131 = 128 or 144Mb  
256, 257, 258 = 256 or 288Mb  
288 = 288Mb  
576 = 576Mb  
300~309 = 1 or 1.125 or 1.25Gb  
310~319 = 2 or 2.25 or 2.5Gb  
320~329 = 4 or 4.5 or 5Gb  
330~339 = 8 or 9 or 10Gb  
340~349 = 16 or 18 or 20Gb  

**O** = Option  
(Up to 1 alpha)  
(Specific meaning varies by product family)  
X = Non-catalog Assembly Option  

**WWW** = I/O Width/Variation  
(Up to 3 digits)  
1 = x1  
4 = x4  
8 = x8  
16 = x16  
18, 19 = x18  
20 = x18 or x20  
24 = x24  
32 = x32  
36, 37, 38 = x36  
40 = x36 or x40  
72, 73 = x72  

**SRAM Codes**  
DD = Double Data Rate (DDR)  
DW = Double Late Write  
E = Dual Cycle Deselect (DCD)  
F = Flow Through Only  
L = High Drive Output  
LW = Late Write  
Z = No Bus Turnaround  

**SigmaQuad/DDR Codes**  
D = SigmaQuad/II/II+/IIIe/IVe B4  
DV = SigmaQuad B4 2.5V  
DT = SigmaQuad-II+ B4 ODT  
E = LV (1.2V) and HV (1.5V) HSTL  
H = HV (1.5V) HSTL  
P = POD  
Q = SigmaQuad/II+/IIIe/IVe B2  
QV = SigmaQuad B2 2.5V  
QT = SigmaQuad-II+ B2 ODT  
R = SigmaDDR-II B4  
S = SigmaSIO DDR-II  
T = SigmaDDR/II/II+/IIIe/IVe B2  
TT = SigmaDDR-II+ B2 ODT  

**LLDRAM Codes**  
C = Common I/O  
R = Common I/O B4  
RH = Common I/O B4 HSTL  
S = Separate I/O  
T = Common I/O B2  
TH = Common I/O B2 HSTL  

**FF** = Function Code  
(Up to 2 alpha)  

**R** = Revision Level  
(Up to 1 alpha)  
Blank = Original Mask Set  
A = 2nd Generation  
B = 3rd Generation  
C = 4th Generation  

**KK** = Package  
(Up to 2 alpha)  

**BBB** = Speed Bin  
(Up to 3 digits)  
XX = ns or MHz  

**T** = Temp Grade  
(Up to 1 alpha)  
Blank = Commercial (0º to 70ºC)  
I = Industrial (–40º to 85ºC)  
E = Extended (–40º to 125ºC)  
M = Military (–55º to 125ºC)  

**QQ** = Qualification Status  
(Up to 1 symbol and 2 alpha)  
Blank = Pre-Qual or Qualified  
/ES = Eng Sample*  
*Note: The /ES mark may appear anywhere on the top surface of the package. The /ES mark supersedes any other qualification status mark that may appear on the device.  

**C** = Customization  
V = Voltage Variation  
X = Non-catalog Post-assembly Option  

**S** = Shipping Option  
(Up to 1 alpha)  
Blank = Bulk  
T = Tape and Reel  

**QQQ** = Qualification Status  
(Up to 1 symbol and 2 alpha)  
Blank = Pre-Qual or Qualified  
/ES = Eng Sample*