



# Part Number Decoder—Synchronous Burst/NBT

**GSI** **/QQ**  
**GS P DDD O FF WWW R KK - BBB T C S**

**P = Product Line Code**  
**(1 digit)**

8 = Sync SRAM

**DDD = Density/Product Family**  
**(Up to 3 digits)**

4 = 4 or 4.5Mb  
8 = 8 or 9Mb  
16 = 16 or 18Mb  
32 = 32 or 36Mb  
64 = 64 or 72Mb  
128 = 128 or 144Mb  
256 = 288Mb

**O = Option**  
**(Up to 1 alpha)**

(Specific meaning varies by product family)

X = Non-catalog Assembly Option

Note: If "X" is shown in the Option Code field, the Function Code and Speed Bin fields become general purpose alphanumeric custom part number fields.

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

DW = Double Late Write  
E = Dual Cycle Deselect (DCD)  
F = Flow Through Only  
H = High Drive Output  
L = Low Drive Output  
LW = Late Write  
Z = No Bus Turnaround

**WWW = I/O Width/Variation**  
**(Up to 3 digits)**

8 = x8  
18 = x18  
32 = x32  
36, 37, 38 = x36  
72, 73 = x72

**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)**

B = 14 mm x 22 mm, 119 BGA  
C = 14 mm x 22 mm, 209 FPBGA  
CQ = Ceramic QFP  
D = 13 mm x 15 mm, 165 FPBGA  
E = 15 mm x 17 mm, 165 FPBGA  
GB = Green 14 mm x 22 mm, 119 BGA  
GC = Green 14 mm x 22 mm, 209 FPBGA  
GD = Green 13 mm x 15 mm, 165 FPBGA  
GE = Green 15 mm x 17 mm, 165 FPBGA  
GT = Green TQFP

**BBB = Speed Bin**  
**(Up to 3 digits)**

XX = ns or MHz

**/QQ**

**T = Temp Grade**  
**(Up to 1 alpha)**

Blank = Commercial (0° to 70°C)  
I = Industrial (-40° to 85°C)  
E = Extended (-40° to 125°C)  
M = Military (-55° to 125°C)

**C = Customization**

V = Voltage Variation  
X = Non-catalog Post-assembly Option

Note: If "X" is shown in the Customization field, the Speed Bin field may become a general purpose alphanumeric custom part number field.

**S = Shipping Option!**  
**(Up to 1 alpha)**

Blank = Bulk  
T = Tape and Reel

**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.