



Part Number Decoder

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

P = Product Line Code
(1 digit)

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 = 64 or 72Mb
128, 129, 130 = 128 or 144Mb
288 = 288Mb
576 = 576Mb
120 = 1.2Gb
242 = 2.4Gb
483 = 4.8Gb
966 = 9.7Gb

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)

D = SigmaQuad/II/III+ B4
DD = Double Data Rate (DDR)
DV = 2.5 V SigmaQuad B4
DW = Double Late Write
E = Dual Cycle Deselect (DCD)
ED = SigmaQuad-IIIe B4
EQ = SigmaQuad-IIIe B2
ET = SigmaCIO DDR-IIIe B2
F = Flow Through Only
H = High Drive Output
L = Low Drive Output
LW = Late Write
Q = SigmaQuad/III/ B2
QV = 2.5 V SigmaQuad B2
R = SigmaCIO DDR-II B4
S = SigmaSIO DDR-II
T = SigmaCIO DDR-II/III+ B2
Z = No Bus Turnaround

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

1 = x1
4 = x4
8 = x8
9, 10, 11 = x9
16 = x16
18, 19, 20 = x18
24 = x24
32 = x32
36, 37 = 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
D = 13 mm x 15 mm, 165 FPBGA
E = 15 mm x 17 mm, 165 FPBGA
H = 15 mm x 17 mm, 165 FPBGA NSMD
J = 400 mil SOJ
K = 14 mm x 22 mm, 260 BGA
Q = QFP
SJ = 300 mil SOJ
T = TQFP
TP = TSOP-II
TS = TSOP-I
U = 6 mm x 8 mm, 48 FPBGA
X = 6 mm x 10 mm, 48 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
GJ = Green 400 mil SOJ
GK = Green 14 mm x 22 mm, 260 BGA
GQ = Green QFP
GT = Green TQFP
GP = Green TSOP-II
GS = Green TSOP-I
GU = Green 6 mm x 8 mm, 48 FPBGA
GX = Green 6 mm x 10 mm, 48 FPBGA

BBB = Speed Bin
(Up to 3 digits)

XX = ns or MHz

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)*
*Unless otherwise specified in datasheet

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.