



Part Number Decoder—SigmaQuad/SigmaDDR

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)

18 = 16 or 18Mb
34 = 32 or 36Mb
66, 67 = 64 or 72Mb
130,131 = 128 or 144Mb
258 = 256 or 288Mb

O = Option
(Up to 1 digit)

2 = II/II+
3 = IIIe
4 = IVe

FF = Function Code
(Up to 2 alpha)

D = SigmaQuad B4
DT = SigmaQuad B4 (Weak/Strong ODT)
DV = 2.5 V SigmaQuad B4
E = LV and HV HSTL
H = HV (1.5 V) HSTL
L = LV (1.2 V) HSTL
P = POD
Q = SigmaQuad B2
QT = SigmaQuad B2 (Weak/Strong ODT)
QV = 2.5 V SigmaQuad B2
R = SigmaDDR B4
S = SigmaSIO DDR
T = SigmaDDR B2
TT = SigmaDDR B2 (Weak/Strong ODT)

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

6, 7, 8 = x8
9, 10, 11 = x9
18, 19, 20, 21 = x18
36, 37, 38, 39 = x36

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)

CE = 21 mm x 25 mm, 165 CCGA
D = 13 mm x 15 mm, 165 FPBGA
E = 15 mm x 17 mm, 165 FPBGA
K = 14 mm x 22 mm, 260 BGA
GD = Green 13 mm x 15 mm, 165 FPBGA
GE = Green 15 mm x 17 mm, 165 FPBGA
GK = Green 14 mm x 22 mm, 260 BGA

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)

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.