



Part Number Decoder—LLDRAM

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

P = Product Line Code
(1 digit)

4 = LLDRAM

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

288 = 288Mb
576 = 576Mb

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)

C = Common I/O
S = Separate I/O

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

9 = x8
18 = x18
36 = x36

R = Revision Level
(Up to 1 alpha)

Blank = Original Mask Set
A = 2nd Generation

KK = Package
(Up to 2 alpha)

L = 11 mm x 18.5 mm, 144 μ BGA
GL = RoHS-compliant (6/6) 11 mm x 18.5 mm, 144 μ BGA
GM = RoHS-compliant (6/6) 11 mm x 18.5 mm, 144 FBGA

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.