

# SynapTech DDR4 Module Part Numbering System

The part numbering system is available at [www.synaptechinc.com/numbering](http://www.synaptechinc.com/numbering)

- SY = SynapTech
- 6 = Computer Module Product Series
- D4 = DDR4; D3 = DDR3
- 64G = 64GB Capacity; 32G; 128G
- 72 = Word Width; 64
- R4 = 4 Ranks; 2
- L = Load Reduced; R = Registered; U= Unbuffered; F = Fully Buffered
- D = DIMM; SO = SODIMM
- 075 = Speed (2666Mbs); 083 = 2400Mbs
- G = Green (RoHS)

## Example Products:

SY6D464GB724RLRDIMM3G2IG – DDR4, 64GB, 72wide, 4 Rank, Load Reduced DIMM, 3200Mb/s; Industrial Temperature, RoHS

SY6D4128G724RRDIMM2G6CG – DDR4, 128GB, 72 wide, 4 Rank, Registered DIMM, 2666Mb/s, Commercial Temperature, RoHS

SY6D3U32G64R2SO1G8C – DDR3, 32GB, 64 wide, 2 Rank, Unbuffered SODIMM, 1866Mb/s; Commercial Temperature Leaded

## Naming Equivalency Table:

DIMM Type	Data Rate	Module Name	Peak Transfer	Rate P/N
DDR4-2133	2133 MT/s	PC4-17000	17064 MB/s	2G1
DDR4-2400	2400 MT/s	PC4-19200	19200 MB/s	2G4
DDR4-2666	2600 MT/s	PC4-20800	20800 MB/s	2G6
DDR4-2933	2933 MT/s	PC4-24000	24000 MB/s	2G9
DDR4-3200	3200 MT/s	PC4-25600	25600 MB/s	3G2

(Data Rate x 64 bits wide / 8 bits per byte) = Module Speed Naming convention)

## SynapTech SynapMod Component Numbering System

R4 = 4 Ra

SY = SynapTech

D4/D3 = DDR4/DDR3

4G = 4096M; 8G = 8192M; 512M = 512M = Number of Words

4/32/64/72/80 = Word Width

S/D = Single/Dual Channel

2R/4R/8R = 2/4/8 = Number of Ranks

BGx = Ball Grid Array Package; x= package outline number

### **SYD48G4S4RBG03G2G**

#### *Speed:*

125 = 1.25ns +> 1600Mb/s 1G6

107 = 1.07ns +> 1866Mb/s 1G8

093 = 0.93ns +> 2133Mb/s 2G1

083 = 0.83ns +> 2400Mb/s 2G4

075 = 0.75ns +> 2666Mb/s 2G6

068 = 0.68ns +> 2933Mb/s 2G9

062 = 0.62ns +> 3200Mb/s 3G2

#### *Temperature Grade:*

C = Commercial (0 - 70C)

I = Industrial (-40 - 105C)

M = Military (-40 - 125C)

L = Optional field: Low Power

G = Green (RoHS)