

NANYA Standard DRAM Part Numbering Guide



NT = Component

Product Family

- 5T = DDR2
- 5C = DDR3
- 5A = DDR4
- 5F = DDR5

Interface & Power (V_{DD}, V_{DDQ})

- U = SSTL-18 (1.8V, 1.8V)
- B = SSTL-15 (1.5V, 1.5V)
- C = SSTL-135 (1.35V, 1.35V)
- D = POD-12 (1.2V, 1.2V)
- F = POD-11 (1.1V, 1.1V)

Organization (Depth, Width):

M=Mono; T=DDP
 512Mb = 32M16=64M8
 1Gb = 64M16=128M8
 2Gb = 128M16=256M8
 4Gb = 256M16=512M8=1024M4
 8Gb = 512M16=512T16=1024M8=2048M4
 16Gb = 1024M16=2048M8=4096M4

Device Version

- A = 1st version
- B = 2nd version
- C = 3rd version
- ⋮
- ⋮

Package Code (RoHS + Halogen-Free)

- [DDR2/DDR3/DDR4]
- E = 60-Ball BGA
- G = 84-Ball BGA
- 1/3/N/Q = 78-Ball BGA
- 2/4/P/R = 96-Ball BGA
- [DDR5]
- 3 = 82-Ball BGA
- 4 = 106-Ball BGA

Grade

- [Commercial]
- N/A = Commercial Grade
- R = High temp. extend (0~105C)
- T = Quasi. IT (-40~95C)
- W = Quasi. IT (-40~105C)
- B = Reduced standby
- [Industrial]
- I = Industrial Grade
- U = Industrial Grade with Wide Temp.
- [Automotive]
- A = Grade 3
- H = Grade 2

Speed

- AC = 800Mbps [5-5-5]
- BE = 1066Mbps [7-7-7]
- DI = 1600Mbps [11-11-11]
- EK = 1866Mbps [13-13-13]
- FL = 2133Mbps [14-14-14]
- HR = 2666Mbps [19-19-19]
- IY = 2933Mbps [21-21-21]
- JR = 3200Mbps [22-22-22]
- N2 = 4800Mbps [40-39-39]
- Q5 = 5600Mbps [46-45-45]
- S8 = 6400Mbps [52-52-52]
- UB = 7200Mbps [58-58-58]