

# DDR3 Module Part Numbering System

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

## DDR3 SDRAM modules

**Micron Technology** MT

**Number of Die** 36

**Voltage**  
 J = 1.5V  
 K = 1.35V  
 M = 1.35V reduced standby

**Module Options**  
 TF = FBGA  
 TS = DDP (dual die in package)  
 SF = FBGA with temp sensor  
 SS = DDP with temp sensor  
 BF = VLP (17.9mm) with temp sensor  
 BS = VLP (17.9mm) DDP with temp sensor  
 DF = VLP (18.75mm) with temp sensor  
 DS = VLP (18.75mm) DDP with temp sensor  
 GF = 1.5U height FBGA with temp sensor  
 GS = 1.5U height DDP with temp sensor  
 HF = 2U height with temp sensor  
 LF = 4U height with temp sensor  
 SZF = FBGA with temp sensor and heat spreader  
 SZS = DDP with temp sensor and heat spreader  
 SZQ = QDP with temp sensor and heat spreader  
 BZF = VLP (17.9mm) with temp sensor and heat spreader  
 BZS = VLP (17.9mm) DDP with temp sensor and heat spreader  
 DYS = VLP (18.75mm) DDP with temp sensor and alternate heat spreader  
 DZF = VLP (18.75mm) with temp sensor and heat spreader  
 DZS = VLP (18.75mm) DDP with temp sensor and heat spreader  
 DZQ = VLP (18.75mm) QDP with temp sensor and heat spreader

**Module Configuration**  
 Depth, Width  
 Blank = Megabits  
 G = Gigabits

**Module Type**  
 Blank = 240-pin registered DIMM  
 A = 240-pin unbuffered DIMM  
 H = 204-pin SODIMM  
 HS = 204-pin SODIMM (R/C G: standard layout)  
 HR = 204-pin SODIMM (R/C H: reverse layout)  
 P = 240-pin parity RDIMM  
 L = 240-pin LRDIMM  
 AK = 244-pin unbuffered miniDIMM  
 PK = 244-pin parity miniRDIMM

**2G 72**

**P Z - 1G6**

**E**

**1**

**MB Vendor/Revision\***  
 \*Applies to LRDIMM modules only

**Printed Circuit Board Revision**

**Die Revision**

**DDR3 SDRAM Module Speed**

Module Speed Grade	Component Speed Grade/Part Mark	JEDEC Component Speed Grade	Clock Freq. (MHz)	Data Rate (MT/s)	Module Bandwidth	Module Configuration SPD (CL-nRCD-nRP)
-80B	-25	DDR3-800	400	800	PC3-6400	6-6-6
-80C	-25E	DDR3-800	400	800	PC3-6400	5-5-5
-1G0	-187	DDR3-1066	533	1066	PC3-8500	8-8-8
-1G1	-187E	DDR3-1066	533	1066	PC3-8500	7-7-7
-1G2	-187F	DDR3-1066	533	1066	PC3-8500	6-6-6
-1G3	-15	DDR3-1333	667	1333	PC3-10600	10-10-10
-1G4	-15E	DDR3-1333	667	1333	PC3-10600	9-9-9
-1G5	-15F	DDR3-1333	667	1333	PC3-10600	8-8-8
-1G6**	-125	DDR3-1333	667	1333	PC3-10600	11-11-11
-1G6	-125	DDR3-1600	800	1600	PC3-12800	11-11-11
-1G7	-125E	DDR3-1600	800	1600	PC3-12800	10-10-10
-1G8	-125F	DDR3-1600	800	1600	PC3-12800	9-9-9
-1G9	-107	DDR3-1866	933	1866	PC3-14900	13-13-13
-1G8	-107E	DDR3-1866	933	1866	PC3-14900	12-12-12
-1G8	-107F	DDR3-1866	933	1866	PC3-14900	11-11-11
-2G1	-093	DDR3-2133	1067	2133	PC3-17000	14-14-14
-2G2	-093E	DDR3-2133	1067	2133	PC3-17000	13-13-13
-2G3	-093F	DDR3-2133	1067	2133	PC3-17000	12-12-12

\*\* -1G6 = -1333 SPD with -125 tested DRAM  
 SPD = serial presence-detect pin (module only)

**Package Codes**

Pb-Free Devices	Package Descriptions
Y	Commercial temp; single-, dual- or quad-rank DIMM
Z	Halogen-free; commercial temp; single-, dual-, quad- or octal-rank DIMM
IZ	Halogen-free; Industrial temp, commercial temp; single-, dual- or quad-rank DIMM
TZ	Halogen-free; Industrial temp; select dual- and quad-rank DIMM
DY	Commercial temp; select dual- or quad-rank DIMM
DZ	Halogen-free; commercial temp; select dual-, quad- or octal-rank DIMM

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