

DDR3 Module Part Numbering System

The part numbering system is available at www.micron.com/support/designsupport/documents/png

DDR3 SDRAM modules

Micron Technology MT 8 J TF 512 64 A Y - 1G1 A 1

Number of Memory Components

Process Technology

J = 1.5V

K = 1.35V

Product Family

TF = FBGA

TS = DDP (dual die in package)

TQ = QDP (quad die in package)

SF = FBGA with Temp Sensor

SS = DDP with Temp Sensor

SQ = QDP with Temp Sensor

BF = VLP with Temp Sensor

BS = VLP DDP with Temp Sensor

BQ = VLP QDP 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 with Temp Sensor and Heat Spreader

BZS = VLP DDP with Temp Sensor and Heat Spreader

BZQ = VLP QDP with Temp Sensor and Heat Spreader

CZS = VLP(19.5mm) DDP w/ Temp Sensor and Heat Spreader

CZQ = VLP(19.5mm) QDP w/ Temp Sensor and Heat Spreader

Depth

Width

Module Version

Blank = 240-pin registered DIMM

A = 240-pin unbuffered DIMM

F = 240-pin fully buffered DIMM

H = 204-pin SODIMM

P = Parity

**Printed Circuit Board
Revision Designator**

Die Revision

Module Speed

DDR3 SDRAM Modules

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 ¹ RCD ¹ RP)
-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	DDR3-1600	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

SPD = serial presence-detect pin (module only)

CL = CAS latency; ¹RCD = active-to-command time; ¹RP = precharge time

Package Codes

Pb-Free Devices	Package Descriptions
Y	Commercial temp; single- or dual-rank DIMM
Z	Halogen Free; commercial temp; single- or dual-rank DIMM
DY	Commercial temp; select dual- or quad rank DIMM
DZ	Halogen Free; commercial temp; select dual- or quad rank DIMM

Rev. 9/8/2008

© 2008 Micron Technology, Inc.

Micron and the Micron logo are trademarks of Micron Technology, Inc.

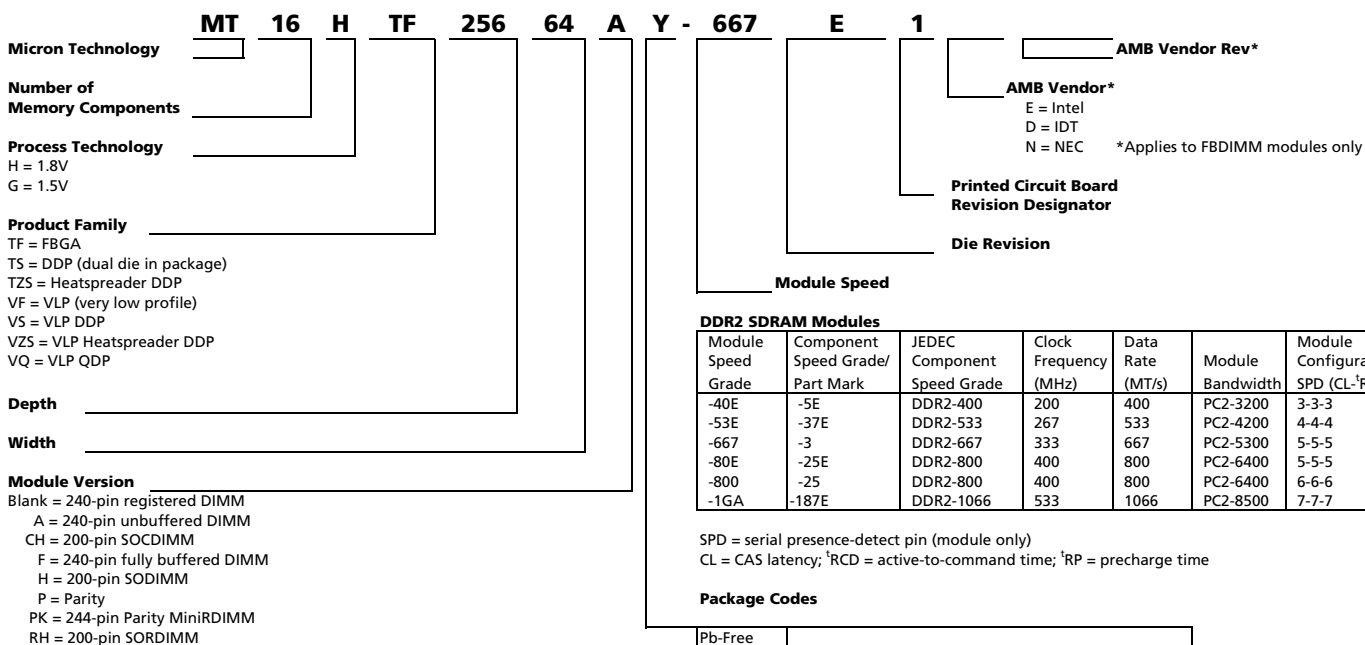
Products and specifications are subject to change without notice. Dates are estimates only.



DDR2 Module Part Numbering System

The part numbering system is available at www.micron.com/support/designsupport/documents/png

DDR2 SDRAM modules



Rev. 9/8/2008

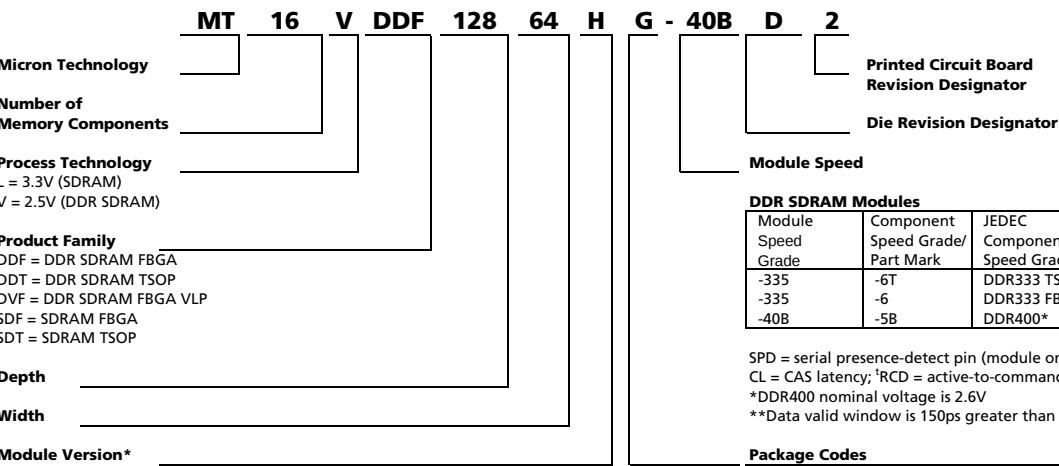
© 2008 Micron Technology, Inc.
Micron and the Micron logo are trademarks of Micron Technology, Inc.
Products and specifications are subject to change without notice. Dates are estimates only.



DDR/SDR Module Part Numbering System

The part numbering system is available at www.micron.com/support/designsupport/documents/png

DDR/SDR SDRAM modules



Module Version*
Blank = 168-pin/184-pin/240-pin registered DIMM
A = 168-pin/184-pin/240-pin unbuffered DIMM
H = 144-pin/200-pin SODIMM
LA = Low-voltage, 168-pin/184-pin unbuffered DIMM
LH = Low-voltage, 144-pin SODIMM
PH = 144-pin/200-pin unbuffered SODIMM with PLLs
U = 100-pin unbuffered DIMM
*All SDRAM and DDR SDRAM DIMMs have serial-presence detect.

DDR SDRAM Modules						
Module Speed Grade	Component Speed Grade/ Part Mark	JEDEC Component Speed Grade	Clock Frequency (MHz)	Data Rate (MT/s)	Module Bandwidth	Module Configuration SPD (CL ¹ -RCD ¹ - ¹ RP)
-33S	-6T	DDR333 TSOP	167	333	PC2700	2.5-3-3
-33S	-6	DDR333 FBGA	167	333	PC2700	2.5-3-3**
-40B	-5B	DDR400*	200	400	PC3200	3-3-3

SPD = serial presence-detect pin (module only)
CL = CAS latency; ¹RCD = active-to-command time; ¹RP = precharge time
*DDR400 nominal voltage is 2.6V
**Data valid window is 150ps greater than -6T

Package Codes		
Lead-Plated Devices	Pb-Free Devices	Package Descriptions
G	Y	Commercial temp; single- or dual-rank DIMM
DG	DY	Commercial temp; select dual-rank
I	IY	Industrial temp DIMM
T	TY	Industrial temp; select dual-rank DIMM

SDR SDRAM Modules		
Module Speed	Allowable Component Speed	CL ¹ -RCD ¹ - ¹ RP
-133	-75, -7E	3-3-3
-13E	-7E	2-2-2

DDR SDRAM Modules	
Module Speed	Allowable Component Speed
-33S	-6, -6T, -5B
-40B	-5B

