# DRAM Component Part Numbering System

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

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**Micron Technology**

**Product Family**

| 40 | DDR4 SDRAM |
| 41 | DDR3 SDRAM |
| 42 | Mobile LPDDR2 |
| 44 | RLDRAM 3 |
| 46 | DDR SDRAM/Mobile LPDDR |
| 47 | DDR2 SDRAM |
| 48 | GDDR5/Mobile LPDDR |

**Technologies**

- DRAM
- Speed Grade
- VT = 2.5V VDD
- I = 1.55V VDD
- TC = 5.0V VCC
- L = Low power
- B = 1.1V VDD
- G = Graphics
- A = Automotive
- K = 1.35V VDD
- M = Reduced standby
- HC = 1.8V VDD, 1.2V I/O
- H = 1.8V VDD
- RS = Relaxed Spec
- D = 1.1V VDD, 0.6V VDDQ (see datasheets for 200b Z11M VDDQ options)
- C = Separate I/O
- M = Reduced standby
- LM = Reduced standby
- PT = Parallel transport
- X = Product Longevity Program (Automotive & Industrial only)
- OS = Off Spec
- S = Sequential number for product variations
- A = Automotive
- L = Low power
- M = Reduced standby
- G = Graphics
- B = 1.1V VDD
- SRAM

**Component Configuration**

- Depth, Width
- Frequency
- Data Rate

## Voltage

- A = 1.2V VDD
- AX = 1.275V VDD
- C = 0.9V VDD
- D = 1.1V VDD
- F = 1.05V VDD
- H = 1.1V VDD
- LC = 3.3V VDD
- M = 1.25V VDD
- N = 1.0V VDD
- R = 1.55V VDD
- V = 2.5V VDD
- J = 1.5V VDD

## Operating Temperatures

- 40 = SDRAM/Mobile LPSDR
- 42 = Mobile LPDDR2
- 44 = RLDRAM 3
- 46 = DDR SDRAM/Mobile LPDDR
- 47 = DDR2 SDRAM
- 48 = GDDR5/Mobile LPDDR

## Special Options

- A = Automotive
- G = Graphics
- N = Networking
- K = 1.35V VDD
- J = 1.55V VDD
- E = 1.1V VDD
- Q = 2.5V VDD
- M = Reduced standby
- L = Low power
- B = 1.1V VDD
- G = Graphics
- F = 1.05V VDD
- X = Product Longevity Program (Automotive & Industrial only)

## Die Revision Designator

- Production Status
- ES = Engineering sample
- Blank = Production

## DRAM Package Codes

- Codes range from 1-3 characters depending on the product.
- Please refer to the datasheet for package details.

## DRAM Technology

- 42M A 128M16 D1 K1 - 25 IT EA

## Part Numbering System

- Multiple processing codes are separated by a space and are listed in hierarchical order.
- The number one (1) and the capital letter "I" utilize the same laser mark—"I"
- The number one (1) and the capital letter "I" utilize the same laser mark—"I"
- ET = Extreme temperature
- UT = Ultra temperature
- XT = Wide temperature
- WT = Wireless temperature
- AT = Automotive temperature

**Product Famil**

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- M = 1.25V VDD
- N = 1.0V VDD
- R = 1.55V VDD
- V = 2.5V VDD
- J = 1.5V VDD

**Component Configuration**

- Depth, Width
- Frequency
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## Operating Temperatures

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## DRAM Technology

- Speed Grade
- MAX Clock Frequency
- PC Targets

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