Nomenclature for DRAM Component

Ver.4.5

1 2	3	4 5	6	7 8	9 10	11	12	13	14	15 16	17	18
SC	**B**	**15**	**H**	**1G**	**80**	**0**	**A**	**F**	**-**	**25**	**D**	**I**

Identifier
SC = UniIC Identifier

Product Group
B = Commodity chip
E = ECC chip
X = Extra Robustness ECC chip
N = Consumer chip

DRAM Volatge

12 =1.2V	11 = 1.1V
13 = 1.35V	1A = 1.05V
15 = 1.5V	2A = S2A
18 = 1.8V	2B = S2B
25 = 2.5V	4A = S4A
33 = 3.3V	4B = S4B

DRAM Generation

S = SDRAM	J = LP SDR
D = DDR	K = LP DDR1
T = DDR2	L = LP DDR2
H = DDR3	M = LP DDR3
Q = DDR4	N = LP DDR4
V = DDR5	P = LP DDR5
	R = LP DDR4X

DRAM Density

1G = 1 Gbit	32 = 32 Mbit
2G = 2 Gbit	64 = 64 Mbit
4G = 4 Gbit	128 = 128 Mbit
8G = 8 Gbit	256 = 256 Mbit
16 = 16 Gbit	512 = 512 Mbit

Number of IOs of Device

40 = x4	16 = x16
80 = x8	32 = x32

Die Numbers

0 = Monolytic	4 = 4 dies
2 = 2 dies	6 = 6 dies

Die Revision

A = Frist product	C = Third product
B = Second product	D = Fourth product

Package

C = FBGA black	T = TSOPII black
F = FBGA green	E = TSOPII green
L = FCBGA	G = TSOP stack green

B = FBGA green Package = 7.5*13.5mm
H = FBGA green low alpha
I = FBGA green low alpha and 0.43 ball size

Power
- = Standard
L= Low power

Speed Bin

75 = 133 MHz	09 = 1066 MHz
7 = 143 MHz	08 = 1200 MHz
6 = **166** MHz	07 = 1333 MHz
5 = 200 MHz	05 = 1466 MHz
4 = 250 MHz	06 = 1600 MHz
37 = 267 MHz	03 = 1866 MHz
3 = 333 MHz	04 = 2133 MHz
25 = 400 MHz	20 = 2400 MHz
19 = 533 MHz	21 = 2750 MHz
15 = 667 MHz	22 = 3000 MHz
13 = 800 MHz	23 = 3200 MHz
11 = 933 MHz	

Latencies
A = 2-2-2 (SDRAM),
= 32-32-32 (DDR4 / LP DDR4 / LP DDR5 / LP DDR4)

B = 2.5(3)-3-3	P = 15-15-15
C = 4-4-4	R = 16-16-16
D = 5-5-5	T = 17-17-17
E = 6-6-6	U = 18-18-18
F = 7-7-7	Q = 19-19-19
G = 8-8-8	S = 22-22-22
H = 9-9-9	V = 21-21-21
J = 10-10-10	W =20-20-20
K = 11-11-11	X = 24-24-24
L = 12-12-12	Y = 28-28-28
M = 13-13-13	Z = 36-36-36
N = 14-14-14	

Operating Temperature
I = Industrial Temperature chip
(DDR2, DDR3: -40°C ~ +95°C;
SDR, DDR, LPDDR2, LPDDR4: -40°C ~ +85°C)
Blank = Commercial Temperature chip
(DDR2, DDR3, DDR4: 0°C ~ +95°C;
LPDDR2: 0°C ~ +85°C
SDR, DDR: 0°C ~ +70°C)
A3 = Automotive grade 3(-40°C ~ +95°C) ;
LPDDR4(-40°C ~ +85°C)
A2 = Automotive grade 2(-40°C ~ +105°C)
A25 = Automotive grade 2(-40°C ~ +115°C)
A1 = Automotive grade 1(-40°C ~ +125°C)
X = High-Rel grade (-55°C ~ +125°C)