Nomenclature for DRAM Component

Ver.4.2

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

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

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

Number of IOs of Device
40 = x4
80 = x8
16 = x16
32 = x32

Die Numbers
0 = Monolytic
2 = 2 dies
4 = 4 dies
6 = 6 dies

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

Package
C = FBGA black
T = TSOPII black
E = TSOPII green
F = FBGA green
G = TSOP stack green
L = FCBGA
B = FBGA green Package =7.5*13.5mm

Operating Temperature
I = Industrial Temperature chip
(DDR2, DDR3: -40°C ~ +95°C;
SDR, DDR, LPDDR2, LPDDR4: -40°C ~ +85°
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)

Latencies
A = 2-2-2
B = 2.5(3)-3-3
C = 4-4-4
D = 5-5-5
E = 6-6-6
F = 7-7-7
G = 8-8-8
H = 9-9-9
J = 10-10-10
K = 11-11-11
L = 12-12-12
M = 13-13-13
N =14-14-14
P =15-15-15
R =16-16-16
T =17-17-17
U =18-18-18
Q =19-19-19
S =22-22-22
V =21-21-21
W =20-20-20
X =24-24-24
Y =28-28-28
O =32-32-32
Z =36-36-36

Speed Bin
75 = 133 MHz
7 = 143 MHz
6 = 167 MHz
5 = 200 MHz
4 = 250 MHz
37 = 267 MHz
3 = 333 MHz
25 = 400 MHz
19 = 533 MHz
15 = 667 MHz
13 = 800 MHz
11 = 933 MHz
09 = 1066 MHz
08 = 1200 MHz
07 = 1333 MHz
06 = 1600 MHz
05 = 1466 MHz
04 = 2133 MHz
03 = 1866 MHz
20 = 2400 MHz
21 = 2750 MHz
22 = 3000 MHz
23 = 3200 MHz

Power
- = Standard
L= Low power