



12815 NE 124th St STE#D, Kirkland, WA-98034

AS4C256M16D3LC-10BCN vs K4B4G1646E-BYMA Comparison

Parameter	AS4C256M16D3LC-10BCN	K4B4G1646E-BYMA	Comparison Result
Product Description	DDR3L SDRAM	DDR3L SDRAM	Same
Capacity	4Gb (256M x 16)	4Gb (256M x 16)	Same
Memory Organization	32Meg, x16bits, x8 banks	32Meg, x16bits, x8 banks	Same
Operating Power Supply	V _{DD} & V _{DDQ} = 1.35V (1.283V to 1.45V)	V _{DD} & V _{DDQ} = 1.35V (1.283V to 1.45V)	Same
DDR3 Compatibility	Compatible to 1.5±0.075	Compatible to 1.5±0.075	Same
Operating Temperature	Commercial (0°C to 95°C)	Commercial (0°C to 95°C)	Same
Clock Frequency	933MHz	933MHz	Same
Data Rate (MT/s)	1866	1866	Same
CAS Latency	13	13	Same
tRCD & tRP (ns)	13.91	13.91	Same
Average Refresh Period	7.8Us at <85C, 3.9Us at 85~95C	7.8Us at <85C, 3.9Us at 85~95C	Same
I/O Capacitance	Comparable		Same
AC/DC Characteristics	Same	Same	Meet JEDEC
Package 96b FBGA	(7.5mm x 13.5mm x 1.2mm) BallArray (mm): 12x 6.4 x 0.8	(7.5mm x 13.3mm x 1.2mm) BallArray (mm): 12x 6.4 x 0.8	Comparable
Package Material	Pb and Halogen Free	Pb and Halogen Free	Same
Pin to Pin Compatible	Pin to Pin Compatible		Same

K4B4G1646E									
AS4C256M16D3LC									

Naming Conventions:
DQ0 : DQL0
DQ1 : DQL1
DQ7 : DQL7
DQ8 : DQU0
DQ9 : DQU1
DQ15 : DQU7
UDQS# : DQSU\
LDM : DML
LDQS : DQSL