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

AS4C1G8MD3LA-10BIN vs IM8G08D3FDDG-125I Comparison

Parameter \ Part Number & result	AS4C1G8MD3LA-10BIN	IM8G08D3FDDG-125I	Comparison Result
Product Description	DDR3L SDRAM	DDR3L SDRAM	Same
Density/Memory Size	8Gb	8Gb	Same
Memory Organization	128Meg x 8 x 8 banks	128Meg x 8 x 8 banks	Same
Data Bus Width	8 bits	8 bits	Same
Row Address	64K (A[15:0])	64K (A[15:0])	Same
Column Address	2K (A[11,9:0])	2K (A[11,9:0])	Same
Page Size	2KB	2KB	Same
Operating Power Supply	VDD/Q=1.35V (1.283~1.45V)	VDD/Q=1.35V (1.283~1.45V)	Same
DDR3 Compatibility	Yes (VDD/Q= 1.425V ~1.575V)	Yes (VDD/Q= 1.425V ~1.575V)	Same
Operating Temperature	Industrial (-40°C ≤ Tc ≤ +95°C)	Industrial (-40°C ≤ Tc ≤ +95°C)	Same
Max. Clock Frequency	933 MHz	800 MHz	Alliance faster
Max Data Rate (MT/s)	1866 Mbps	1600 Mbps	Alliance faster
tRCD/tRP/CL	13.91/13.91/13 for 933Mhz 13.75/13.75/11 for 800Mhz	13.75/13.75/11	Comparable
Die per Package	Dual Die Part	Dual Die Part with Dual control pins	Different
Package	78b FBGA (9mm x 10.6mm)	78b FBGA (9mm x 10.6mm)	Same
Package Material	Pb and Halogen Free	Pb and Halogen Free	Same
Pin to Pin Compatible Register settings	Single "CS", "CKE", "ODT" & "ZQ" pins	Dual "CS", "CKE", "ODT" & "ZQ" pins	Different