

32Mx32 GDDR3 1GHz Setting

- How to set 1Ghz operation in EMRS2 mode -

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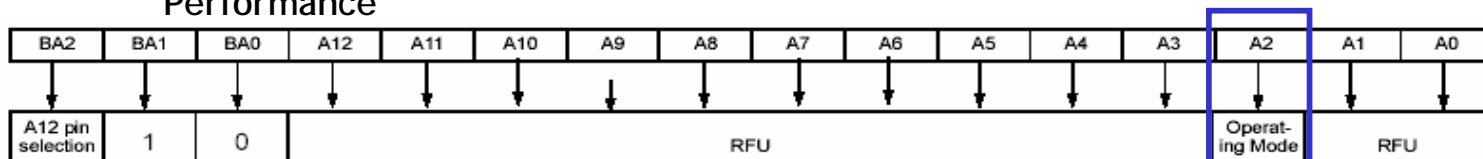
How To Set 1GHz Operation

□ Ordering Information

Part No.	Max Freq.	Max Data Rate	VDD/VDDQ
K4J10324QD-HJ1A	1000MHz	2.0Gbps/pin	1.85V +/-0.05V
K4J10324QD-HC12/14	800/700MHz	1.6/1.4Gbps/pin	1.8V +/-0.1V

□ 'High Performance Mode' for 1GHz operation

- To select 'high performance mode' in EMRS2
- To set A2 bit as '1'
 - A2 bit in EMRS2 is to select Operating Mode either Normal(default) or High Performance



A12 pin selection(Merged mode)

BA2	A12 pin position
0	A12(J2 pin): Non-Merged
1	A12/ CS1 (J3 pin): Merged

* Note : After selecting A12 pin position between J2 and J3 pin by EMRS2, 1Gb GDDR3 set CS1 mode by EMRS1

* Refer to the page4 to 6 for the pin configuration

Operating Mode Selection

A2	Operating Mode
0	Normal (Default)
1	High performance

* Note : For 1GHz operation, High performance mode should be selected.

* Normal mode is for 700MHz /800MHz operation.