



**Errata: An Issue Related to CFI Query
For MX29LV400C/040C/004C/800C/008C /160C/320C/033C/320M/640M/128M.**

Background

Common Flash Interface (CFI) is an industry standard that facilitates the ease of reading standardized data structure from a flash device. CFI allows system software to query the flash device for various parameters (timing and electrical), configurations and other information related to supported functions.

As specified in the datasheets, entering the CFI Mode is achieved by writing to the command register Address 55H for (Word mode) or AAH (Byte mode) with Data 98H during the first bus cycle. This is shown in the table below:

Command		Bus Cycle	First Bus Cycle		Second Bus Cycle		Third Bus Cycle	
			Addr	Data	Addr	Data	Addr	Data
CFI Query	Word	1	55H	98H				
	Byte	1	AAH	98H				

An Issue Related to CFI Query

It turns out that for the CFI Query command, Macronix flash parts MX29LV400C /040C/004C/ 800C/ 008C /160C/320C/033C/320M/640M/128M exhibit Don't Care (XXH) characteristics instead of address 55H and AAH for Data 98H. This implies that writing into the command register any address (XXH) with data 98H will enter CFI mode. This is shown in the table below:

Command		Bus Cycle	First Bus Cycle		Second Bus Cycle		Third Bus Cycle	
			Addr	Data	Addr	Data	Addr	Data
CFI Query	Word	1	XXH	98H				
	Byte	1	XXH	98H				

System Impact and Suggestions

1. Although there is no impact to functionality and reliability of the device, there is the possibility of unintentionally entering the CFI mode, as in the case of executing a dummy command. Extra precaution should be taken to make sure that CFI mode is not entered unintentionally.
2. For customers who are already using these parts in their applications, there is no need to make any further changes.
3. The issue does not affect the customers who are not using CFI at this time.



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APPLICATION NOTE

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Revision History

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0.06	1. Added copyright page.	P3	APR/17/2009



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