



Specification Comparison

EN29F010 V.S. M29F010B

Part No. :	EN29F010
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1. Part No.

Eon : EN29F010-70JIP
STMicro : M29F010B70K6T

2. Basic Features:

- Supply voltage: 5V
- Pad definition: Pin to Pin
- Access times: 70ns
- Sector Architecture: 8 *16 Kbyte uniform
- Erase Suspend/Resume

3. Difference Comparison Table:

	EN29F010	M29F010B
Unlock Bypass Program command supported	No	Yes
Multi sector erase	No	Yes



4. Autoselect Codes table Comparison:

M29F010B:

Table 4. Bus Operations

Operation	\bar{E}	\bar{G}	\bar{W}	Address Inputs	Data Inputs/Outputs
Bus Read	V _{IL}	V _{IL}	V _{IH}	Cell Address	Data Output
Bus Write	V _{IL}	V _{IH}	V _{IL}	Command Address	Data Input
Output Disable	X	V _{IH}	V _{IH}	X	Hi-Z
Standby	V _{IH}	X	X	X	Hi-Z
Read Manufacturer Code	V _{IL}	V _{IL}	V _{IH}	A0 = V _{IL} , A1 = V _{IL} , A9 = V _{ID} , Others V _{IL} or V _{IH}	20h
Read Device Code	V _{IL}	V _{IL}	V _{IH}	A0 = V _{IH} , A1 = V _{IL} , A9 = V _{ID} , Others V _{IL} or V _{IH}	20h

EN29F010:

USER MODE	$\bar{C}\bar{E}$	$\bar{W}\bar{E}$	$\bar{O}\bar{E}$	A9	A8	A6	A1	A0	Ax/y	DQ(0-7)
STANDBY	H	X	X	X	X	X	X	X	X	HI-Z
READ	L	H	L	A9	A8	A6	A1	A0	Ax/y	DQ (0-7)
OUTPUT DISABLE	L	H	H	X	X	X	X	X	Ax/y	HI-Z
READ MANUFACTURE ID	L	H	L	VID	L/H	L	L	L	X	MANUFACTURE ID
READ DEVICE ID	L	H	L	VID	X	L	L	H	X	DEVICE ID
VERIFY SECTOR PROTECTION	L	H	L	VID	X	L	H	L	X	CODE
SECTOR PROTECTION	L	Pulse L	VID	VID	X	L	X	X	X	X
VERIFY SECTOR UNPROTECTION	L	H	L	VID	X	H	H	L	X	CODE
SECTOR UNPROTECTION	L	Pulse L	VID	VID	X	H	H	L	X	X
WRITE	L	L	H	A9	A8	A6	A1	A0	Ax/y	DIN (0-7)

Note:

To read Manufacture/device ID for EN29F010, A6 need to set to Low.



5. Command table compare:

M29F010B:

Command	Length	Bus Write Operations											
		1st		2nd		3rd		4th		5th		6th	
		Addr	Data	Addr	Data	Addr	Data	Addr	Data	Addr	Data	Addr	Data
Read/Reset	1	X	F0										
	3	555	AA	2AA	55	X	F0						
Auto Select	3	555	AA	2AA	55	555	90						
Program	4	555	AA	2AA	55	555	A0	PA	PD				
Unlock Bypass	3	555	AA	2AA	55	555	20						
Unlock Bypass Program	2	X	A0	PA	PD								
Unlock Bypass Reset	2	X	90	X	00								
Chip Erase	6	555	AA	2AA	55	555	80	555	AA	2AA	55	555	10
Block Erase	6+	555	AA	2AA	55	555	80	555	AA	2AA	55	BA	30
Erase Suspend	1	X	B0										
Erase Resume	1	X	30										

EN29F010:

Command Sequence Read/Reset	Write Cycles Req'd	1 st Write Cycle		2 nd Write Cycle		3 rd Write Cycle		4 th Write Cycle		5 th Write Cycle		6 th Write Cycle	
		Addr	Data	Addr	Data	Addr	Data	Addr	Data	Addr	Data	Addr	Data
Read	1	RA	RD										
Reset	1	XXXh	F0h										
Read/Reset	4	555h	AAh	2AAh	55h	555h	F0h	RA	RD				
AutoSelect Manufacturer ID	4	555h	AAh	2AAh	55h	555h	90h	000h/ 100h	7Fh/ 1Ch				
AutoSelect Device ID	4	555h	AAh	2AAh	55h	555h	90h	01h	20h				
AutoSelect Sector Protect Verify	4	555h	AAh	2AAh	55h	555h	90h	BA & 02h	00h/ 01h				
Byte Program	4	555h	AAh	2AAh	55h	555h	A0h	PA	PD				
Chip Erase	6	555h	AAh	2AAh	55h	555h	80h	555h	AAh	2AAh	55h	555h	10h
Sector Erase	6	555h	AAh	2AAh	55h	555h	80h	555h	AAh	2AAh	55h	BA	30h
Sector Erase Suspend	1	xxxh	B0h										
Sector Erase Resume	1	xxxh	30h										

Note: 1. Read/Reset: EN29F010 need 1 more cycle.

2. Unlock Bypass: EN29F010 doesn't have this command in 5V product.

3. M29F010B has **continue block erase** command. Customer can input next block Addr behind 6th cycles to erase several block continually, but EN29F010 doesn't support this function.