
Adesto Technologies

AT25DF041A, AT25DF081A & AT26DF081A

Comparison

Adesto Field Application

<http://www.adeptotech.com/>

AT25DF041A – AT25DF081A – AT26DF081A Comparison

Command	AT25DF081A opcode	AT25DF041A opcode	AT26DF081A opcode
Vcc	2.7V - 3.6V	2.7V - 3.6V 2.3V - 3.6V	2.7V - 3.6V
Read Array	0Bh	0Bh	0Bh
Read Array	03h	03h	03h
Block Erase, 4KB	20h	20h	20h
Block Erase, 32KB	52h	52h	52h
Block Erase, 64KB	D8h	D8h	D8h
Chip Erase	60h	60h	60h
Chip Erase	C7h	C7h	C7h
Byte/Page Program	02h	02h	02h
Sequential Programming		ADh AFh	ADh AFh
Write Enable	06h	06h	06h
Write Disable	04h	04h	04h
Protect Sector	36h	36h	36h
Unprotect Sector	39h	39h	39h
Global Protect/Unprotect	Use Write Status Register Command		
Read Sector Protection Register	3Ch	3Ch	3Ch
Read Status Register	05h	05h	05h
Write Status Register Byte 1	01h	01h	01h
Read Manufacturer and Device ID	9Fh	9Fh	9Fh
Deep Power-Down	B9h	B9h	B9h
Resume from Deep Power-Down	ABh	ABh	ABh
Page Program Time	3msec max	5msec max	5msec max
Block Erase, 4KB	200msec max	200msec max	200msec max
Block Erase, 32KB	600msec max	600msec max	600msec max
Block Erase, 64KB	950msec max	950msec max	950msec max
Chip Erase	28 sec max	7 sec max	14 sec max
Manufacture and Product ID	1F 45 01 01 00	1F 44 01 00	1F 45 01 00
Status Register	2 bytes	1 bytes	1 bytes
MH	MH	MH	MH
SSH, SSU	SSH	SSH	SSU
SH, SU	SH	SH	SU

AT25DF041A

If ADh or AFh is used

AT26DF081A



SSH and MH
Pad Layout Suggestion
<http://www.adeptotech.com/>

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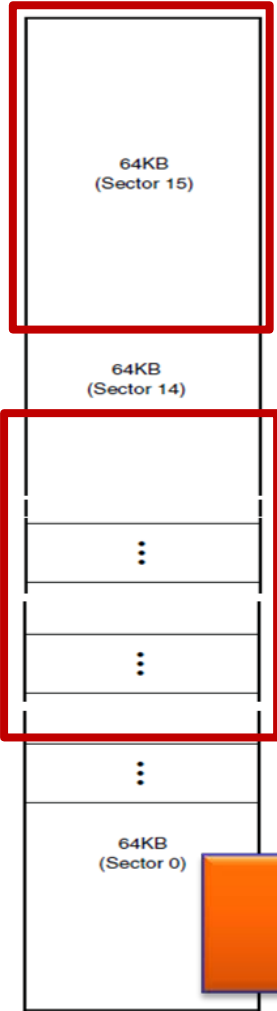
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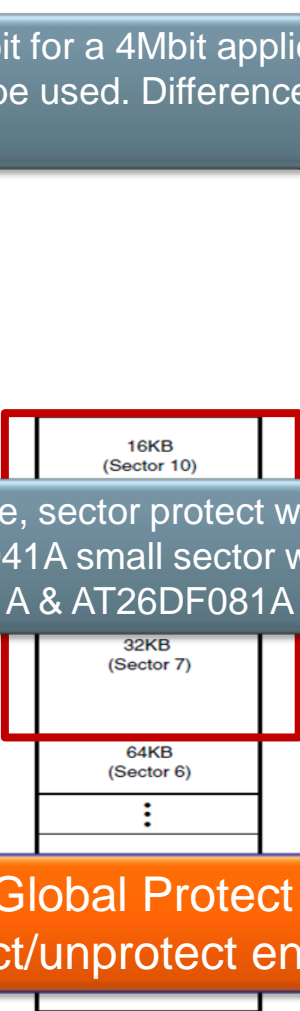
If MH is used,
replace with SU or SH

Sector Protection – Memory Partition Comparison

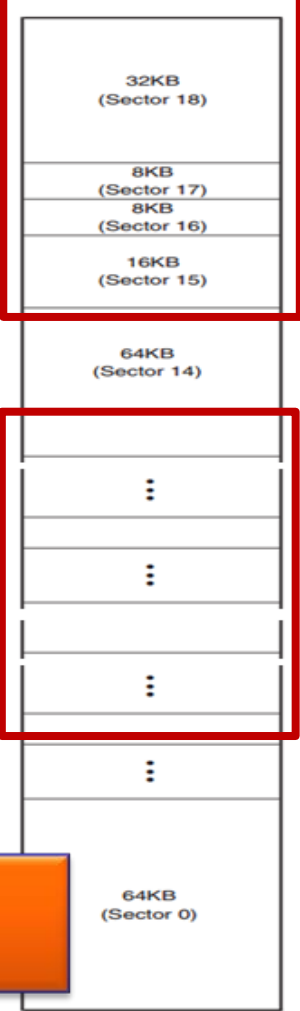
AT25DF081A



AT25DF041A



AT26DF081A



We are using 8Mbit for a 4Mbit application, this portion of memory may not be used. Differences may not be an issue

For this address range, sector protect will work the same way. Sector unprotect on 041A small sector would unprotect entire sector on AT25DF081A & AT26DF081A

Can also use Global Protect and unprotect to protect/unprotect entire chip

Summary

Similarities:

- Command Set – SPI
- Program, Erase Time

Differences:

- Memory Partition. (No difference if Global Protect is use)
- Chip Erase Time
- Manufacturer ID