

# SAFD

## Serial ATA Flash Drive



### Features

- Perfect replacement of 1.8" / 2.5" SATA HDDs
- Advanced Wear-leveling and Block Management
- Built-in HW ECC, Quick Erase and SMART Functions
- Power Failure Recovery
- Purge Function Support (Optional)

### Introduction of SAFD 18S

#### ■ Compliant with JEDEC MO-297:

"MO-297 is the first document to standardize a physical outline for a solid state drive"  
(JEDEC Press Release, 2009)

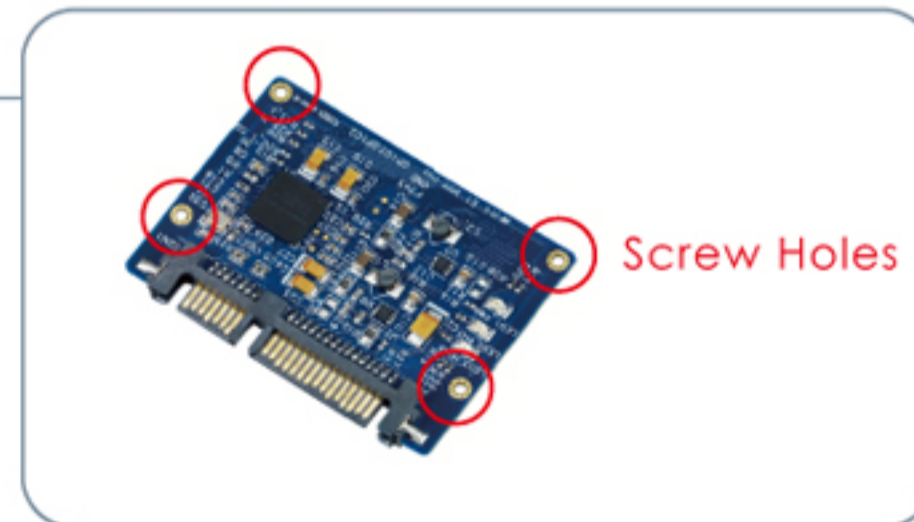
#### ■ Only 4 mm in Thickness:

The dimension of the SAFD 18S is 54 (L) x 39.5 (w) x 4 (H) mm with only 4 mm in thickness- 43% of the size of a standard 2.5-inch SSD.



#### ■ Designed to Enhance System Safety :

In order to improve the stability between SAFD 18S and the motherboard, screw holes are set around the structure. Besides enhancing the fixation of the system, it also reduces vibration.



#### ■ Specifically Designed for Mobile Devices:

Such as Mobile tablet, MID (Mobile Internet Device), Netbook and CULV (Consumer Ultra Low Voltage) Netbook.



### Specifications

Model	SAFD 251	SAFD 254	SAFD 254-M	SAFD 255	SAFD 255-M
Interface	SATA 1.5Gb/s	SATA 3Gb/s	SATA 3Gb/s	SATA 3Gb/s	SATA 3Gb/s
Connector	(7+15) pin male	(7+15) pin male	(7+15) pin male	(7+15) pin male	(7+15) pin male
Physical Form Factor ( Inch )	2.5	2.5	2.5	2.5	2.5
Flash Type	SLC	SLC	MLC	SLC	MLC
Capacity	256MB ~ 32GB	8GB ~ 128GB	8GB ~ 256GB	16GB~128GB	16GB~256GB
Max. Sustained R / W Performance ( MB / sec )	35 / 25	160 / 135	155 / 100	210/200	210/100
ECC Support	8 bit / 512 Bytes	8~15 bit / 512 Bytes	8~15 bit / 512 Bytes	14 bit / 512 Bytes 28 bit / 1K Bytes	14 bit / 512 Bytes 28 bit / 1K Bytes
Standard Op Temp. ( °C )	0 ~ +70	0 ~ +70	0 ~ +70	0~+70	0~+70
Extended Op Temp. ( °C )	-	-40 ~ +85	-	-40~+85	-
Storage Temp. ( °C )	-40 ~ +100	-40 ~ +100	-40 ~ +100	-40~+100	-40~+100
Shock	1,500G	1,500G	1,500G	1500G	1500G
Vibration	15G	15G	15G	15G	15G
Humidity	5% ~ 95%	5% ~ 95%	5% ~ 95%	5%~95%	5%~95%
MTBF ( hours )	> 2,000,000	> 2,000,000	> 1,000,000	>2,000,000	>1,000,000
Dimensions ( mm )	100(L)x69.8(W)x9.3(H)	100 ( L ) x 69.8 ( W ) x 9.3 ( H )		100(L)x69.8(W)x9.3(H)	
Product Image					

Model	SAFD 181	SAFD181-M	SAFD 25M2	SAFD 25M2-M	SAFD 18S	SAFD 18S-M
Interface	SATA 3Gb/s	SATA 3Gb/s	SATA 3Gb/s	SATA 3Gb/s	SATA 3Gb/s	SATA 3Gb/s
Connector	(7+9) pin male	(7+9) pin male	(7+15) pin male	(7+15) pin male	(7+15) pin male	(7+15) pin male
Physical Form Factor ( Inch )	1.8	1.8	2.5	2.5	1.8	1.8
Flash Type	SLC	MLC	SLC	MLC	SLC	MLC
Capacity	8GB ~ 32GB	8GB ~ 64GB	4GB ~ 32GB	4GB ~ 64GB	4GB ~ 32GB	4GB ~ 64GB
Max. Sustained R / W Performance ( MB / sec )	160 / 135	155 / 90	100 / 100	95 / 50	100 / 100	95 / 50
ECC Support	8-15 bit / 512 Bytes	8-15 bit / 512 Bytes	8-15 bit / 512 Bytes	8-15 bit / 512 Bytes	8-15 bit / 512 Bytes	8-15 bit / 512 Bytes
Standard Op Temp. ( °C )	0 ~ +70	0 ~ +70	0 ~ +70	0 ~ +70	0 ~ +70	0 ~ +70
Extended Op Temp. ( °C )	-40 ~ +85	-	-	-	-	-
Storage Temp. ( °C )	-40 ~ +100	-40 ~ +100	-40 ~ +100	-40 ~ +100	-40 ~ +100	-40 ~ +100
Shock	1,500G	1,500G	50G	50G	50G	50G
Vibration	15G	15G	15G	15G	15G	15G
Humidity	5% ~ 95%	5% ~ 95%	5% ~ 95%	5% ~ 95%	5% ~ 95%	5% ~ 95%
MTBF ( hours )	> 2,000,000	> 1,000,000	> 2,000,000	> 1,000,000	> 2,000,000	> 1,000,000
Dimensions ( mm )	78.3 ( L ) x 54 ( W ) x 5 ( H )		48.7 ( L ) x 69.8 ( W ) x 9.3 ( H )		54 ( L ) x 39.5 ( W ) x 4 ( H )	
Product Image						

\*Actual performance will vary based on different capacities.