





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
 - Secured Protection Zone and Purge Functions (Optional)
 - Patented SSD⁺Optimizer SW (Optional)

Solid State Drive vs. Hard Disk Drive

HDD	SSD	
		
Advantages		
<ul style="list-style-type: none"> • Lower Price • Higher Capacity • No P/E Limitation 	<ul style="list-style-type: none"> • Faster Boot-up time • Lighter Weight • Lower Power Consumption • MTBF (>2,000,000 hours) 	
Disadvantages		
<ul style="list-style-type: none"> • Louder Noise • Lower Shock resistance • Lower Endurance 	Opportunities	
	<ul style="list-style-type: none"> • Comply with military standards • Design for use in Thin Clients, POS, Telecom, Medical, Surveillance systems and Industrial PCs. 	



Specifications

Model	SAFD 251	SAFD 25M	SAFD 253
Interface	SATA I 1.5Gb/s	SATA I 1.5Gb/s	SATA II 3Gb/s
Connector	(7+15) pin male	(7+15) pin male	(7+15) pin male
Physical Form Factor (Inch)	2.5	2.5	2.5
Flash Type	SLC	SLC	SLC
Capacity	256MB ~ 32GB	256MB ~ 16GB	8GB ~ 64GB
Sustained R / W Performance (MB / sec)	35 / 25	35 / 25	140 / 110
ECC Support	8 bit / 512 Bytes	8 bit / 512 Bytes	RS (8 bit Symbol / 512 Bytes)
Standard Op Temp. (°C)	0 ~ +70	0 ~ +70	0 ~ +70
Extended Op Temp. (°C)	-	-	-40 ~ +85
Storage Temp. (°C)	-40 ~ +100	-40 ~ +100	-40 ~ +100
Shock	1,500G	1,500G	1,500G
Vibration	15G	15G	15G
Humidity	5% ~ 95%	5% ~ 95%	5% ~ 95%
MTBF (hours)	> 2,000,000	> 2,000,000	> 2,000,000
Dimensions (mm)	100 (L) x 69.8 (W) x 9.3 (H)	48.7 (L) x 69.8 (W) x 9.3 (H)	100 (L) x 69.8 (W) x 9.3 (H)
Product Image			

Model	SAFD 181	SAFD181-M	SAFD 254	SAFD 254-M	SAFD 25M2	SAFD 25M2-M
Interface	SATA II 3Gb/s	SATA II 3Gb/s	SATA II 3Gb/s	SATA II 3Gb/s	SATA II 3Gb/s	SATA II 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	2.5	2.5
Flash Type	SLC	MLC	SLC	MLC	SLC	MLC
Capacity	8GB ~ 32GB	8GB ~ 64GB	8GB ~ 128GB	8GB ~ 128GB	4GB ~ 32GB	4GB ~ 64GB
Sustained R / W Performance (MB / sec)	150 / 130	150 / 90	150 / 130	150 / 90	100 / 70	95 / 50
ECC Support	8 bit / 512 Bytes	8 bit / 512 Bytes	8 bit / 512 Bytes	8 bit / 512 Bytes	8 bit / 512 Bytes	8 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	-	-40 ~ +85	-	-	-
Storage Temp. (°C)	-40 ~ +100	-40 ~ +100	-40 ~ +100	-40 ~ +100	-40 ~ +100	-40 ~ +100
Shock	1,500G	1,500G	1,500G	1,500G	1,500G	1,500G
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	> 2,000,000	> 2,000,000	> 2,000,000	> 2,000,000	> 2,000,000
Dimensions (mm)	78.3 (L) x 54 (W) x 5 (H)		100 (L) x 69.8 (W) x 9.3 (H)		48.7 (L) x 69.8 (W) x 9.3 (H)	
Product Image						