

Apacer
Access the best



THE MOST **RELIABLE** STORAGE FOR INDUSTRIES

Industrial SSD

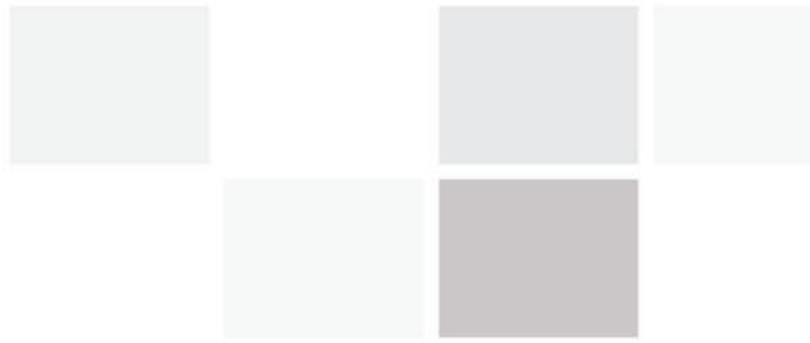
S O L U T I O N S



Product Guide

Industrial SSD

S O L U T I O N S



Server



Military



Gaming



Medical Equipment

Why Apacer Industrial SSD solutions?

Quality Assurance

Apacer offers only the highest of quality products to satiate the rigorous demands in stability of storage modules for the industrial computer markets. All SSD products undergo extensive reliability testing (temperature, humidity, vibration, and shock tests etc.) and ORT testing (on-going reliability test) to guarantee the product dependability and longevity.

Professional Technique

Apacer SSD R&D team, a squad of experts in professional fields, is capable of developing high-speed and reliable storage technologies, which explains our acclaimed, industry-leading products in the current market. With sustainable design innovations, we are confident to bring you added value and meanwhile improve upon the reliability, security, and performance of our products.

Remarkable Achievement

Apacer proactively planned and developed the SSD for industrial use in 1998, and more than 10 million units have been produced in the ten years of experience since then. Apacer now is the industry leading SSD supplier and further solidifies the client's confidence in its products.

Longevity Commitment

Apacer guarantees up to 3 years of stable supply to meet the long-term requirements of customer end products. This is most beneficial to clients who require stable supply chain to avoid risk of discontinued products, as well as greatly reduce compatibility issues resulting from material/component changes.

Extensive Experience

Apacer is an experienced player in the memory module industry and values our most valuable assets in market familiarity as well as specialized capabilities. Product compatibility and customization service from Apacer are well suited for various hardware demands from international manufacturers. Apacer is able to stand out from the competition and wins the long-term support and trust from valued clients.

Reliable Service

Apacer believes in the principle of client needs coming first, and applies the belief for the duration of product development. Coupled with the complete FAE and RMA processes, Apacer holds the core competitiveness of "Access the Best" not only for ourselves, but also winning clients' recognition as the most reliable partner in the corporate world.



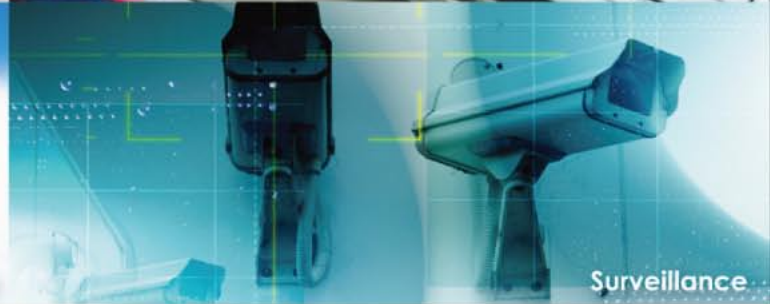
Personal computer



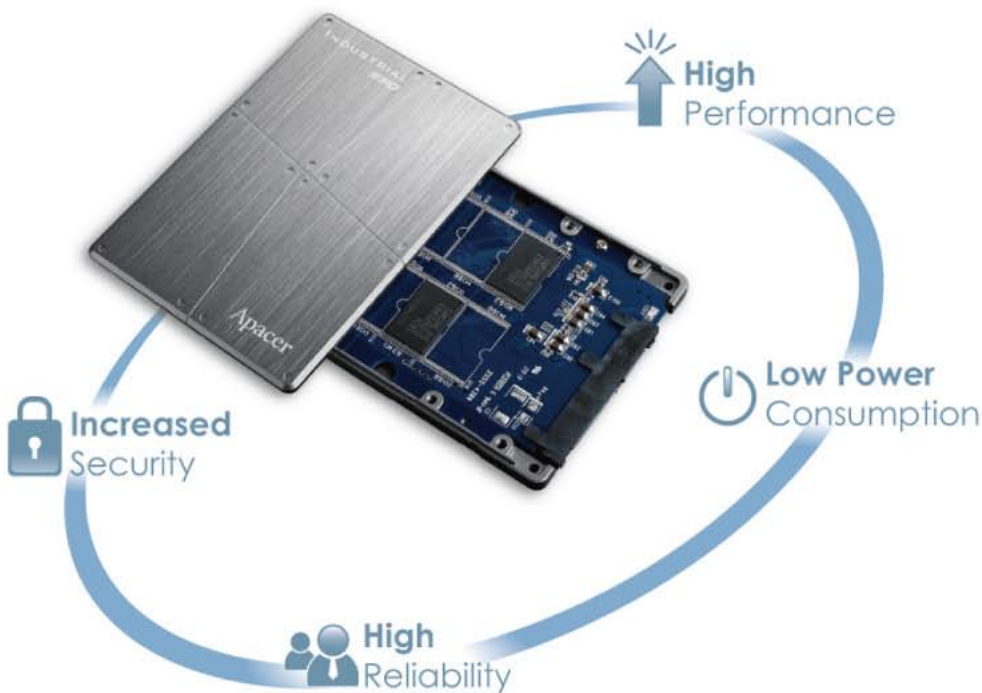
Automotive



Interactive System



Surveillance



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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.




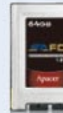


■ Specifically Designed for Mobile Devices:

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				 (Optional)	 (Optional)

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.

CSFD

Combo SATA Flash Drive



Features

- Perfect replacement of 2.5" SATA HDD
- Design SLC and MLC chips in a device
- Automatically recognized as two disk drives
- OS Installation on SLC for superior performance and reliability
- Data Storage on MLC for cost-effective advantage and larger storage

Specifications

Model	CSFD
Interface	SATA 3Gb/s
Connector	SAS (7+7+15) pin male <SFF-8482>
Physical Form Factor (Inch)	2.5
Flash Type	SLC + MLC
Capacity	80GB (SLC: 16GB+ MLC: 64GB) 160GB (SLC: 32GB+ MLC: 128GB)
Max. R/W Performance (MB/sec)	SLC : 210/200 MLC : 210/100
Shock	1500G
Vibration	15G
Humidity	5%~95%
Dimensions (mm)	100(L)x69.8(W)x9.3(H)
Product Image	

CSFD incorporates the advantages of the high accessing efficiency and reliability of SLC (Single Level Cell) as well as the low cost and large storage of MLC (Multi Level Cell).



For practical usage, the built-in SLC and MLC of CSFD are automatically recognized as two different disk drives (C:\ and D:\).



SUF₂D


SATA USB Flash Drive



Features

- Perfect replacement of 2.5" SATA HDD
- 100% system backup solution
- UFD performs a DVD-RW behavior for data recovery
- UFD keeps the backup data from virus attack

Specifications

Model	SUF ₂ D
Interface	SFD: SATA 3Gb/s ; USB 2.0
Connector	SATA (7+15) pin male + mini USB
Physical Form Factor(Inch)	2.5
NAND Flash	SFD: SLC ; UFD: MLC
Capacity	SFD: 32GB ~ 128GB ; UFD: 8GB
Max. R/W Performance(MB/sec)	SFD: 210/200
Dimensions (mm)	100(L)x69.8(W)x9.3(H)
Product Image	

Application Scenario

POS System

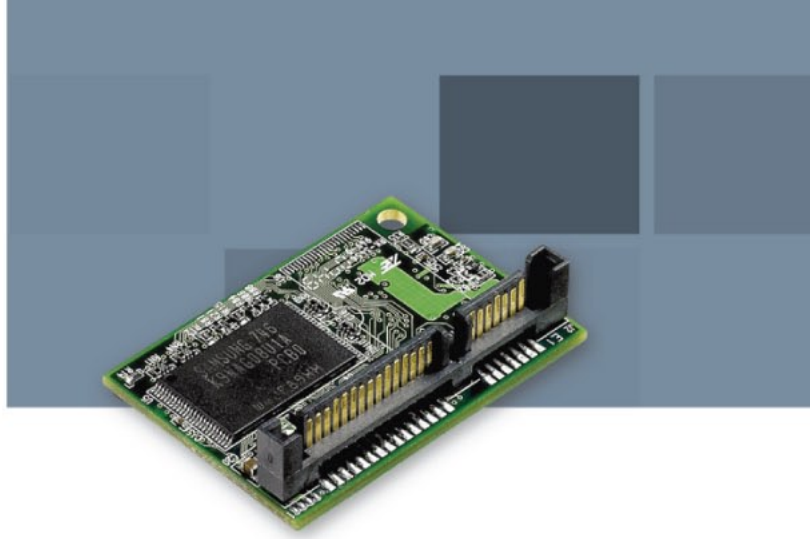


- Real-time system rescue
- Quick recovery critical system
- Reduce downtime loss
- Save maintenance cost
- The best backup solution for POS applications



SDM

SATA Disk Module



Features

- 7-pin / 22-pin / mSATA connector
- Advanced wear-leveling and Block management
- Built-in HW ECC and SMART Functions
- Power Failure Recovery
- Built-in Quick Erase

7P/180D LPH Product Features:

- Tiny Size (32.5mm x 29.4mm)
- Unique Hook Design
- Patented Power Cable-less Solution
- Perfect Solution for 1U system

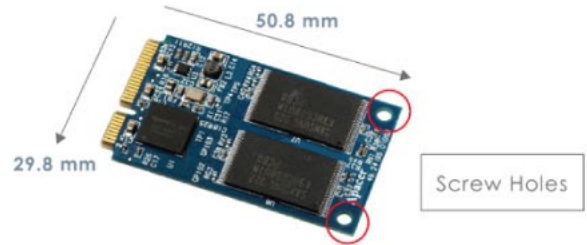
M1 & M1-M Product Features:

- mSATA Connector
- Mini PCIe Form Factor (50.8mm x 29.8mm)
- Compliant with JEDEC MO-300 standard

unique Hook Design








mSATA Connector





Specifications

Model	SDM I				
	7-pin			22-pin	
Connector	7P/90D	7P/180D-L(R)	7P/270D	22P/90D	22P/180D
Model Type	7P/90D	7P/180D-L(R)	7P/270D	22P/90D	22P/180D
Interface	SATA 1.5Gb/s	SATA 1.5Gb/s	SATA 1.5Gb/s	SATA 1.5Gb/s	SATA 1.5Gb/s
Flash Type	SLC	SLC	SLC	SLC	SLC
Capacity	128MB ~ 8GB	128MB ~ 4GB	128MB ~ 8GB	128MB ~ 8GB	128MB ~ 8GB
Max. Sustained R / W Performance (MB / sec)	Standard : 35 / 15 ; High Speed : 35 / 25	Standard : 35 / 15 ; High Speed : 35 / 25	Standard : 35 / 15 ; High Speed : 35 / 25	Standard : 35 / 15 ; High Speed : 35 / 25	Standard : 35 / 15 ; High Speed : 35 / 25
ECC Support	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
Storage Temp. (°C)	-40 ~ +100	-40 ~ +100	-40 ~ +100	-40 ~ +100	-40 ~ +100
Shock	50G	50G	50G	50G	50G
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	> 2,000,000	> 2,000,000	> 2,000,000
Product Image					

Model	SDM II					
	7-pin		22-pin		mSATA	
Connector	7P/90D LPH	7P/180D LPH	22P/90D	22P/90D-M	M1	M1-M
Model Type	7P/90D LPH	7P/180D LPH	22P/90D	22P/90D-M	M1	M1-M
Interface	SATA 3Gb/s	SATA 3Gb/s	SATA 3Gb/s	SATA 3Gb/s	SATA 3Gb/s	SATA 3Gb/s
Flash Type	SLC	SLC	SLC	MLC	SLC	MLC
Capacity	512MB~8GB	512MB~8GB	1GB~32GB	4GB~64GB	4GB~32GB	4GB~64GB
Max. Sustained R / W Performance (MB / sec)	27/27	27/27	100/100	95/50	100/100	95/50
ECC Support	8 bit/512 Bytes	8 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°C	0 ~ +70°C	0 ~ +70°C	0 ~ +70°C	0 ~ +70°C	0 ~ +70°C
Storage Temp. (°C)	-40 ~ +100°C	-40 ~ +100°C	-40 ~ +100°C	-40 ~ +100°C	-40 ~ +100°C	-40 ~ +100°C
Shock	50G	50G	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	>2,000,000	>2,000,000	>1,000,000	>2,000,000	>1,000,000
Product Image						

SDC

SATA Disk Chip



Features

- SATA interface with 6 mm in height
- DIP Form factor for superior shock / vibration resistance
- Advanced wear-leveling and Block management
- Built-in HW ECC, Quick Erase and SMART Functions
- Power Failure Recovery
- Ideal for PC/104 stackable application

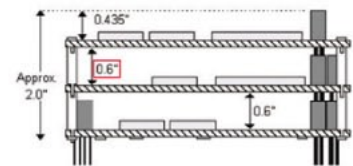
Specifications

Model	SDC
Interface	SATA 3Gb/s
Physical Form Factor	18/32 round pin DIP connector
Capacity	1GB ~ 8GB
Max. Sustained R / W Performance (MB / sec)	54 / 54
ECC Support	8 bit / 512 Bytes
Extended Op Temp. (°C)	-40 ~ +85
Storage Temp. (°C)	-40 ~ +100
Shock	50G
Vibration	15G
Humidity	5% ~ 95%
MTBF (hours)	> 2,000,000
Product Image	

*Actual performance will vary based on different capacities.

Application Scenario

A sketch of PC/104



- Stackable Design
- Space concern
- Dimensions: 3.550 x 3.775 inch
- Only 0.6 inch (15.2 mm (Height) between boards)
- Target: Industrial and Military Fields

SDC is the best compact and robust storage for PC/104.



AFD

ATA Flash Drive



Features

- Perfect replacement of 1.8" / 2.5" PATA HDDs
- Advanced Wear-leveling and Block Management
- Built-in HW ECC, Quick Erase and SMART Functions
- Power Failure Recovery
- Purge Fnction for AFD 255 and AFD 18M-M
- Secured Protection Zone (Optional)

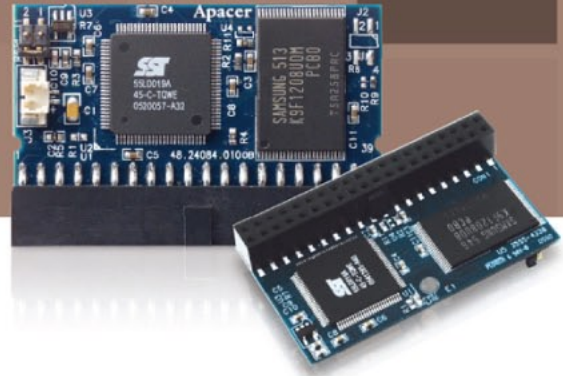
Specifications

Model	AFD III			AFD 4	
	AFD 183	AFD 253	AFD 253-M	AFD 255	AFD 18M-M
Model Type	AFD 183	AFD 253	AFD 253-M	AFD 255	AFD 18M-M
Interface	Standard ATA / IDE	Standard ATA / IDE	Standard ATA / IDE	Standard ATA/IDE	Standard ATA/ IDE
Connector	ZIF	44-pin male	44-pin male	44-pin male	ZIF
Physical Form Factor (Inch)	1.8	2.5	2.5	2.5	1.8
Flash Type	SLC	SLC	MLC	SLC	MLC
Capacity	1GB~32GB	256MB~64GB	8GB~128GB	1GB~128GB	4GB~64GB
Transfer Mode	PIO Mode-4; MWDMA Mode-2; UDMA Mode-4	PIO Mode-4; MWDMA Mode-2; UDMA Mode-4	PIO Mode-4; MWDMA Mode-2; UDMA Mode-4	PIO Mode-4; MWDMA Mode-2; UDMA Mode-6	PIO Mode-4; MWDMA Mode-2; UDMA Mode-6
Max. Sustained R / W Performance (MB / sec)	35 / 25	35 / 25	35 / 9	120/100(Est.)	85/20 (Est.)
ECC Support	8 bit / 512 Bytes	8 bit / 512 Bytes	8 bit / 512 Bytes	24 bit/ 1K Bytes	24 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	-	-40~+85	-
Storage Temp. (°C)	-40 ~ +100	-40 ~ +100	-40 ~ +100	-40~+100	-40~+100
Shock	50G	1,500G	1,500G	1,500G	50G
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)	71(L)x54(W)x5(H)	100(L)x69.8(W)x9.3(H)	100(L)x69.8(W)x9.3(H)	100(L)x69.8(W)x9.3(H)	32(L)x54(W)x4.4(H)
Product Image					

PATA Interface
1.8"/2.5" (inch)
Capacity up to 128 GB
ET Type
Up to UDMA 6
SMART Enable
Security Function
Built-in ECC
RoHS Compliant

ADM

ATA Disk Module



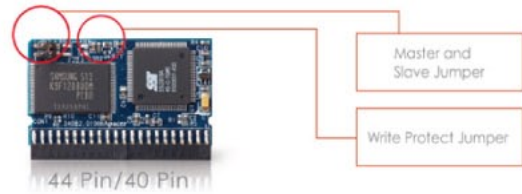
Features

- Standard 40-pin / 44-pin IDE female connector
- Built-in HW ECC, Quick Erase and SMART Functions
- Advanced Wear-leveling and Block Management
- Power Failure Recovery
- Secured Protection Zone (Optional)

ADM 808 Duplicator



Target	1 to 7 duplication
Support Type	Apacer ADM 40pin/44pin
Operating Temp.(°C)	+5~+45
Storage Temp. (°C)	-20~+80
Humidity	20%~80% (operating); 5%~95% (storage)
Power Supply	80~180W; 100~240V



PATA
Interface

40/44
Pin

Capacity
Up to
64
GB

Up to
UDMA
6

ET
Type

Security
Function

Low
Profile

Built-in
ECC

RoHS
Compliant

Specifications

Model	ADM III				
Connector	40-pin (2.54mm pitch) / 44-pin (2.00mm pitch)				
Model Type	90D	180D	180D LP	180D LP with (locked) housing	270D
Interface	Standard ATA / IDE	Standard ATA / IDE	Standard ATA / IDE	Standard ATA / IDE	Standard ATA / IDE
Flash Type	SLC	SLC	SLC	SLC	SLC
Capacity	128MB ~ 16GB	128MB ~ 16GB	128MB~8GB	128MB~8GB	128MB ~ 16GB
Transfer mode	PIO Mode-4 MWDMA Mode-2 UDMA Mode-4	PIO Mode-4 MWDMA Mode-2 UDMA Mode-4	PIO Mode-4 MWDMA Mode-2 UDMA Mode-4	PIO Mode-4 MWDMA Mode-2 UDMA Mode-4	PIO Mode-4 MWDMA Mode-2 UDMA Mode-4
Max. Sustained R / W Performance (MB / sec)	Standard : 35/15 High Speed : 35/25	Standard : 35/15 High Speed : 35/25	Standard : 35/15 High Speed : 35/25	Standard : 35/15 High Speed : 35/25	Standard : 35/15 High Speed : 35/25
ECC Support	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
Extended Op Temp. (°C)	-40~ +85	-40~ +85	-40~ +85	-40~ +85	-40~ +85
Storage Temp. (°C)	-40 ~ +100	-40 ~ +100	-40 ~ +100	-40 ~ +100	-40 ~ +100
Shock	50G	50G	50G	50G	50G
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	> 2,000,000	> 2,000,000	> 2,000,000
Product Image (40 Pin)					
Product Image (44 Pin)					

Model	ADM 4			
Connector	44-pin(2.00mm pitch)			
Model Type	180D LP with housing	180D LP with housing -M	270D	270D-M
Interface	Standard ATA/IDE	Standard ATA/IDE	Standard ATA/IDE	Standard ATA/IDE
Flash Type	SLC	MLC	SLC	MLC
Capacity	1GB~16GB	1GB~32GB	1GB~32GB	1GB~64GB
Transfer mode	PIO Mode-4 MWDMA Mode-2 UDMA Mode-6	PIO Mode-4 MWDMA Mode-2 UDMA Mode-6	PIO Mode-4 MWDMA Mode-2 UDMA Mode-6	PIO Mode-4 MWDMA Mode-2 UDMA Mode-6
Max. Sustained R / W Performance (MB / sec)	90/50 (Est.)	85/20 (Est.)	90/50 (Est.)	85/20 (Est.)
ECC Support	12 bit/ 512 Bytes	12 bit/ 512 Bytes	12 bit/ 512 Bytes	12 bit/ 512 Bytes
Standard Op Temp. (°C)	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
Shock	50G	50G	50G	50G
Vibration	15G	15G	15G	15G
Humidity	5%~95%	5%~95%	5%~95%	5%~95%
MTBF (hours)	> 2,000,000	> 1,000,000	> 2,000,000	> 1,000,000
Product Image				

ADC

ATA Disk Chip



Features

- 32-pin DIP IDE male connector
- Built-in HW ECC, Quick Erase and SMART Functions
- Advanced Wear-leveling and Block Management
- Power Failure Recovery
- Secured Protection Zone (Optional)

Specifications

Model	ADC III
Connector	600mil 32-round pin DIP connector
Capacity	128MB ~ 8GB
Transfer mode	PIO Mode-4 ; MWDMA Mode-2 ; UDMA Mode-4
Max. Sustained R / W Performance (MB / sec)	Standard : 35/15 ; High Speed : 35/25
ECC Support	8 bit / 512 Bytes
Standard Op Temp. (°C)	0 ~ +70
Extended Op Temp. (°C)	-40 ~ +85
Storage Temp. (°C)	-40 ~ +100
Shock	50G
Vibration	15G
Humidity	5% to 95%
MTBF (Hours)	> 2,000,000
Product Image	



600mil
32pin

Capacity
8 GB

UDMA
4

ET
Type

Security
Function

Built-in
ECC

RoHS
Compliant

Industrial CF

Industrial CompactFlash



Features

- Compliant with CFA3.0 Specification for CFCIII
- Compliant with CFA4.1 Specification for CFC4
- Built-in HW ECC and SMART Functions
- Advanced Wear-leveling and Block Management
- Intelligent Power Failure Recovery

Specifications

Model	CFC III	CFC 4
Connector	50-pin	50-pin
Interface	PC Card Memory Mode; PC Card I/O Mode; True IDE Mode	PC Card Memory Mode; PC Card I/O Mode; True IDE Mode
Capacity	128MB ~ 16GB	256MB~16GB
Transfer mode	PIO Mode-6 ; MWDMA Mode-4 ; UDMA Mode-4	PIO Mode-6; MWDMA Mode-4; UDMA Mode-6
Max. Sustained R / W Performance (MB / sec)	Standard : 35 / 15 ; High Speed : 35 / 25	Up to 50/21
ECC Support	8 bit / 512 Bytes	8~15 bit / 512 Bytes)
Standard Op Temp. (°C)	0 ~ +70	0 ~ + 70
Extended Op Temp. (°C)	-40 ~ +85	-40 ~ + 85
Storage Temp. (°C)	-40 ~ +100	-40 ~ + 100
Shock	50G	50G
Vibration	15G	15G
Humidity	5% ~ 95%	5% ~ 95%
MTBF (hours)	> 2,000,000	>2,000,000
Product Image	 	 

Capacity Up to 16 GB
Up to UDMA 6
ET Type
NR Setting
SMART Enable
Built-in ECC
RoHS Compliant

ATA CF

Advanced Technology Attachment



Features

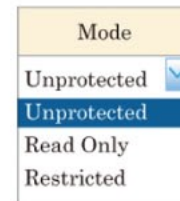
- Advanced wear-leveling and block management
- Built-in HW ECC and SMART Functions
- Power Failure Recovery
- Built-in Quick Erase
- Secured Protection Zone

Specifications

Model	ATA CF
Connector	50-pin
Interface	True IDE Mode
Capacity	128MB~16GB
Transfer Mode	PIO Mode-4; MWDMA Mode-2; UDMA Mode-4
Max. Sustained R/W Performance(MB/sec)	Standard : 35/15 ; High Speed : 35/25
ECC Support	8 bit / 512 Bytes)
Standard Op Temp (°C)	0 ~ + 70
Extended Op Temp (°C)	-40 ~ + 85
Storage Temp (°C)	-40 ~ + 100
Shock	50G
Vibration	15G
Humidity	5% ~ 95%
MTBF(hours)	>2,000,000
Product Image	

Secured Protection Zone

There are three modes of the utility to define different protected modes :



- **Unprotected** : A zone in unprotected state will be fully accessible.
- **Read-only** : A zone in read-only state will be accessible by read command only.
- **Restricted** : A zone in restricted state will not be accessible.



CFast

CFast Card



Features

- Compliant with CFast 1.0 Specifications
- Advanced wear-leveling and Block Management
- Built-in HW ECC and SMART Function
- Power Failure Recovery
- Shock resistance, anti-vibration and Low power consumption

Specifications

Model	CFast
Interface	SATA 3Gb/s
Connector	(7+17) pin male
Capacity	1GB ~ 16GB
Max. R/W Performance(MB/sec)	110/60 (Est.)
ECC Support	28 bit/ 1K Bytes
Standard Op. Temp (°C)	0~+70
Extended Op. Temp (°C)	-40~+85
Storage Temp (°C)	-40~+100
Shock	50G
Vibration	15G
Humidity	5%~95%
MTBF(hours)	> 2,000,000
Product Image	



UDM

USB Disk Module



Features

- Compliant with the standard USB specifications
- Compact size and varies in dimensions
- Support Microsoft Vista ReadyBoost
- Support Linux / WinCE / XP Embedded
- Shock resistance, anti-vibration and Low power consumption



Specifications

Model	UDM II					
	Type A	Type B	Type C	Type D	Type D LP	Type E
Product Type	Type A	Type B	Type C	Type D	Type D LP	Type E
Interface	USB 2.0	USB 2.0	USB 2.0	USB 2.0	USB 2.0	USB 2.0
Connector	10-pin (2 x 5 header)	10-pin (2 x 5 header)	10-pin (2 x 5 header)	10-pin (2 x 5 header)	10-pin (2 x 5 header)	10-pin (2 x 5 header)
Connector Pitch (mm)	2.54	2.54	2.54	2.54	2.54	2.0
Capacity	256MB~8GB	256MB~8GB	256MB~8GB	256MB~8GB	256MB~8GB	256MB~8GB
Max. Sustained R / W Performance (MB / sec)	30 / 20	30 / 20	30 / 20	30 / 20	30 / 20	30 / 20
Standard Op Temp. (°C)	0 ~ +70	0 ~ +70	0 ~ +70	0 ~ +70	0 ~ +70	0 ~ +70
Extended Op Temp. (°C)	-40 ~ +85	-40 ~ +85	-40 ~ +85	-40 ~ +85	-40 ~ +85	-40 ~ +85
Storage Temp. (°C)	-40 ~ +100	-40 ~ +100	-40 ~ +100	-40 ~ +100	-40 ~ +100	-40 ~ +100
Shock	50G	50G	50G	50G	50G	50G
Vibration	15G	15G	15G	15G	15G	15G
Humidity	5% ~ 95%	5% ~ 95%	5% ~ 95%	5% ~ 95%	5% ~ 95%	5% ~ 95%
Dimensions (mm)	28.8 x 26.65 x 10.5	37.8 x 26.65 x 10.5	37.8 x 26.65 x 10.5	37.3 x 26.65 x 8.5	31.95 x 24 x 5	36.6 x 26.5 x 7.5
Product Image						





Product Feature Comparison Chart

Type	SATA SSD Series									PATA SSD Series	
	Drive						Module		Chip	Module	
Model	SAFD 251	SAFD 254	SAFD 255	SAFD 25M2	SAFD 181	SAFD 185	SDM	SDMII	SDC	ADMIII	ADM4
Wear Leveling	●	●	●	●	●	●	●	●	●	●	●
HW ECC	●	●	●	●	●	●	●	●	●	●	●
S.M.A.R.T.	●	●	●	●	●	●	●	●	●	●	●
Power Failure Recovery	●	●	●	●	●	●	●	●	●	●	●
Quick Erase	●	●	●	●	●	●	●	●	●	●	●
Protection Zone										●	●
Purge Function		●									●
MLC Flash Type		●	●	●	●	●		●*			●
Extended Temperature		●	●		●	●			●	●	●
SSD+Optimizer		●		●	●	●		●	●		

Type	PATA SSD Series					Flash Card Series					USB SSD Series
	Drive				Chip	CF					Module
Model	AFDIII 183	AFDIII 253	AFD4 255	AFD4 18M	ADCIII	CFCIII	CFC4	ATA CF	CFast	Commercial CF	UDM
Wear Leveling	●	●	●	●	●	●	●	●	●	●	●
HW ECC	●	●	●	●	●	●	●	●	●	●	●
S.M.A.R.T.	●	●	●	●	●	⊙	●	●	●	⊙	
Power Failure Recovery	●	●	●	●	●	⊙	●	●	●	⊙	
Quick Erase	●	●	●	●	●			●			
Protection Zone	●	●	●	●	●			●			
Purge Function				●							
MLC Flash Type	●	●	●	●						●	
Extended Temperature	●	●	●			●	●	●	●		●
SSD+Optimizer	●	●	●		●						

⊙= Only for VA series

*=Only for SDMII M1 & 22P/90D

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Access the best

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