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The Most **Reliable** Storage For Industries

SM220-CFast

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SM220-CFast

Overview

Apacer SM220-CFast is the latest enhancement of conventional CFast form factor that delivers various technological advantages. This new flash memory card comes with SATA 6.0 Gbps interface for higher performance and consists of SATA-based 7-pin signal segment and 17-pin for power and control purposes. For data efficiency, the internal controlling unit of the SM220-CFast 2.0 is engineered with DRAM for enhanced random performance which achieves data transfer rates up to 540 MB/s in sequential access and 76,000 IOPS in 4KB random access. In addition, Apacer CFast cards come with S.M.A.R.T. for lifetime monitoring and customization support if write protection is required. Apacer SM220-CFast 2.0 guarantees reliability of applications in harsh environments by implementing intelligent Flash Management algorithms and Error Correction. Together with its small form factor nature, Apacer SM220-CFast is definitely the ideal solution to replace conventional PATA-based CompactFlash for applications in industrial computing systems, mobile computers and video processing instruments.

*The actual available memory on the device is less than what is listed on the package. This is due to small discrepancies in file formats and algorithms used by various operating systems. In addition, a portion of memory space is reserved for system files and data sectors for better performance

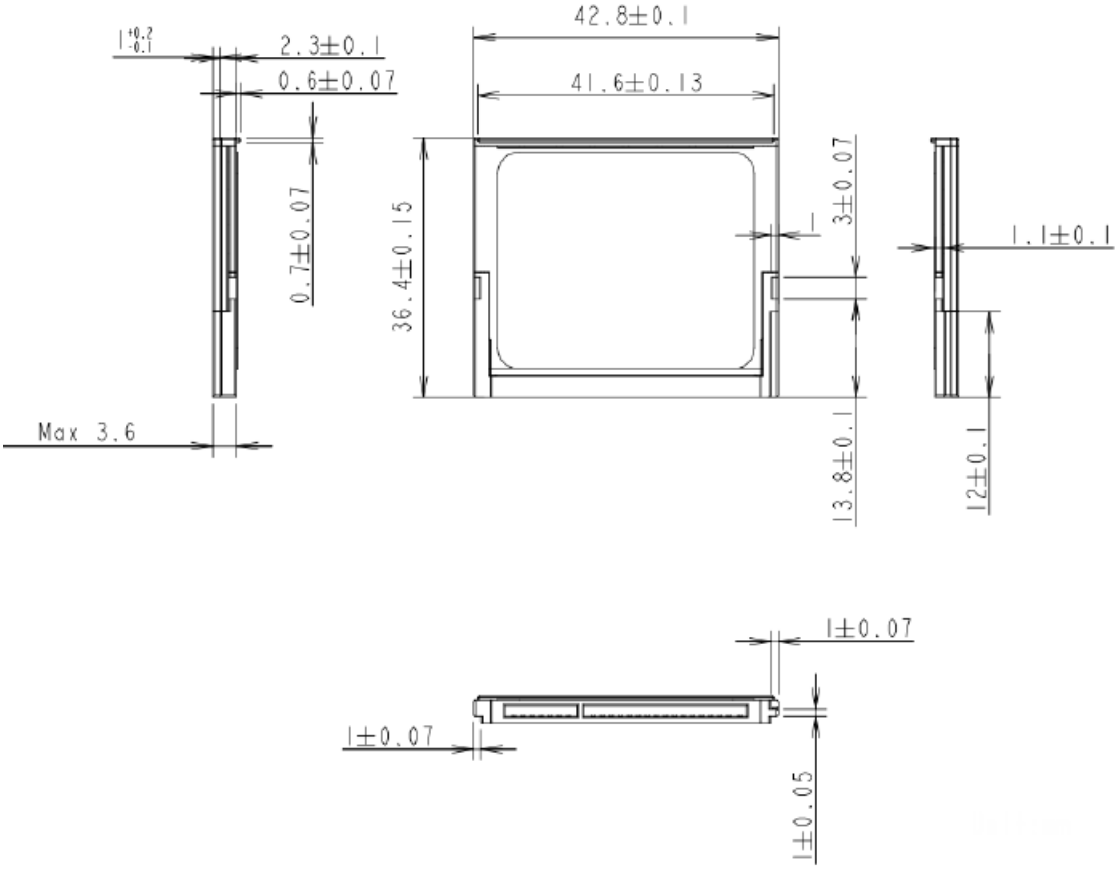
Feature

- Built-in hardware ECC
- Global wear-leveling
- Flash bad-block management
- S.M.A.R.T.
- Power failure management
- ATA secure erase
- TRIM
- Lock switch design for write-protection(Optional)

Specifications

Model	SM220-CFast
Interface	SATA 3.0 (6Gb/s)
Connector	(7+17) pin female
Form Factor	CFast
Transfer Mode	PIO Mode-6, MWDMA Mode-4, UDMA Mode-6
NAND Flash Type	MLC
Capacity	8GB~256GB
Sustained Read Performance (MB/sec)	Up to 540
Sustained Write Performance (MB/sec)	Up to 355
ECC Engine	Built-in 72-bit per 1K bytes BCH ECC
Standard Operating Temperature (°C)	0 ~ + 70
Extended Operating Temperature (°C)	-40 ~ + 85
Storage Temperature (°C)	-40 ~ + 100
H/W Write Protect	Optional
Shock	Operation: 50G, 11ms Non-operation: 1500G, 0.5ms
Vibration	Operation: 7.69 Grms, 20~2000 Hz/random (compliant with MIL-STD-810G) Non-operation: 15 G, 10 ~ 2000 Hz/sine
Operating Voltage	3.3 V ± 5%
Power Consumption	Active mode: 435 mA, Standby mode: 105 mA
Dimension (L x W x H)	36.4mm x 42.8mm x 3.6mm
MTBF (hours)	>1,000,000

Mechanical Specification



Unit: mm

For more information, contact your Apacer representative

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