

# Apacer

The Most **Reliable**  
Storage For Industries

SV25P-CFast



### Overview

Apacer SV25P-CFast, utilizing 3D NAND for higher capacity up to 960GB and providing more power efficiency than 2D NAND, is the latest enhancement of conventional CFast form factor that delivers various technological advantages. This new flash memory card comes with SATA 6 Gb/s interface for exceptional performance with data transfer rates up to 560 MB/s in sequential access and 71,000 IOPS in 4KB random access, and consists of SATA-based 7-pin signal segment and 17-pin for power and control purposes. Designed without DRAM on the internal controlling unit, SV25P-CFast ensures data integrity by preventing data loss during a sudden power outage.



SV25P-CFast guarantees reliability of applications in harsh environments by implementing intelligent Flash Management algorithms and LDPC (Low Density Parity Check) ECC engine to extend SSD endurance and increase data reliability.

Featuring CorePower technology, SV25P-CFast guarantees data integrity and stability of data transmission in the event of an unexpected power loss by implementing backup power supply with tantalum capacitors that allow sufficient time to move all cached data to NAND flash. Furthermore, SV25P-CFast is equipped with a built-in thermal sensor to monitor the temperature of the SSD via S.M.A.R.T commands to prevent overheating. Operating under 6 Gb/s interface, SV25P-CFast is provided with Apacer latest S.M.A.R.T. that is primarily oriented for the latest SATA interface SSD, for drive lifetime monitoring and analysis. For highly-intensive applications, End-to-End Data Protection ensures that data integrity can be assured at multiple points in the path to enable reliable delivery of data transfers.

Security-wise, Advanced Encryption Standard (AES) ensures data security and provides users with peace of mind knowing their data is safeguarded against unauthorized use at all times. SV25P-CFast also adopts the latest page mapping file translation layer and comes with various implementations including flash block management, wear leveling, TRIM, Hyper Cache technology, over-provisioning, DataRAID, SMART Read Refresh, and power saving modes.

With exceptional performance, trustable reliability, and enhanced data protection, SV25P-CFast is definitely the ideal storage or cache solution for a variety of applications ranging from industrial, imaging, computing to enterprise markets.

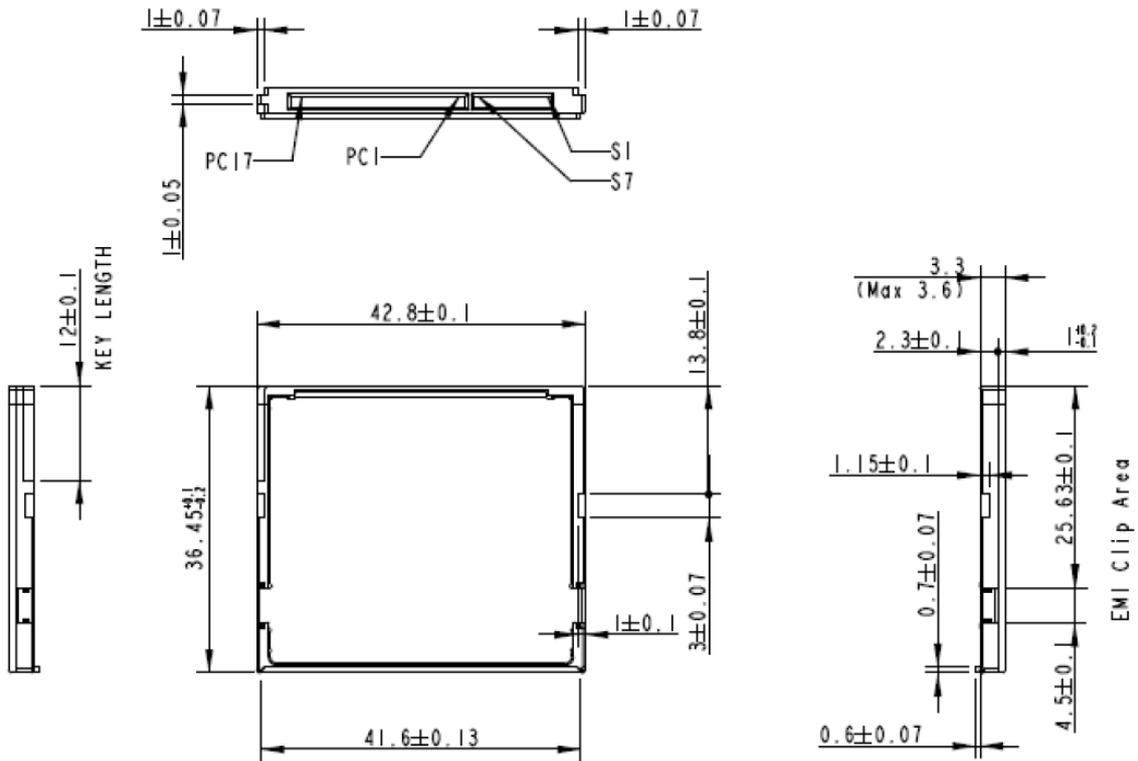
## Feature

- Low-Density Parity-Check (LDPC) Code
- Global Wear Leveling
- Flash bad-block management
- Flash Translation Layer: Page Mapping
- DataDefender™
- S.M.A.R.T.
- Device Sleep
- ATA Secure Erase
- SATA Power Management
- TRIM
- Hyper Cache Technology
- Over-provisioning
- DataRAID
- SMART Read Refresh

## Specifications

<b>Model</b>	SV25P-CFast
<b>Interface</b>	SATA 3.2 (6Gb/s)
<b>Connector</b>	(7+17) pin female
<b>Form Factor</b>	CFast
<b>NAND Flash Type</b>	3D TLC
<b>Capacity</b>	120~960GB
<b>External DRAM</b>	No
<b>Sustained Read Performance (MB/sec)</b>	Up to 560
<b>Sustained Write Performance (MB/sec)</b>	Up to 505
<b>ECC Engine</b>	Low-Density Parity-Check (LDPC) Code
<b>IOPs (4K Random Write)</b>	71K
<b>Standard Operating Temperature ( °C )</b>	0 ~ + 70
<b>Extended Operating Temperature ( °C )</b>	-40 ~ + 85
<b>Storage Temperature ( °C )</b>	-55 ~ + 100
<b>Thermal sensor</b>	Yes
<b>Shock</b>	Operation: 50G/11ms (compliant with MIL-STD-202G) Non-operation: 1500G/0.5ms (compliant with MIL-STD-883K)
<b>Vibration</b>	Operation: 7.69 GRMS, 20~2000 Hz/random (compliant with MIL-STD-810G) Non-operation: 4.02 GRMS, 15~2000 Hz/random (compliant with MIL-STD-810G)
<b>Operating Voltage</b>	3.3 V ± 5%
<b>Power Consumption</b>	Active mode: 300 mA / Idle mode: 70 mA
<b>Dimension (L x W x H )</b>	42.80 x 36.45 x 3.60 mm
<b>MTBF (hours)</b>	>3,000,000

## Mechanical Specification



Unit: mm

For more information,  
contact your Apacer representative

### Global Presence

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