

CFast cards are compliant with the PCMCIA I or II standards with SATA interface. The card's controller, which is functionally compliant with typical SATA SSD controllers, offers low power consumption and data transfer rates of up to 550 MB/s. Other features include S.M.A.R.T., advanced power management methods and a DRAM cache. CFast is available with 3D TLC, 3D pSLC, MLC, pSLC and SLC NAND and its capacity may depend on the technology used. It's small size and housing suited for multiple applications make CFast a good solution for many mobile applications.



CFast					
Flash type	3D TLC	3D pSLC	MLC	pSLC	SLC
Program/Erase cycles	3 000	50 000	3 000	20 000	60 000
Capacity	128 GB – 512 GB	32 GB – 256 GB	32 GB – 256 GB	16 GB – 64 GB	8 GB – 32 GB
Interface	SATA III				
Key features	Static and Dynamic Wear Leveling Bad Block Management TRIM S.M.A.R.T. NCQ Over-Provisioning Low Power Management Thermal Sensor TCG Opal Build from major IC grades FIX BOM (optional) PCN and EOL notification				
Operating temperature (°C)	0 – 70 -40 – 85	0 – 70 -40 – 85	0 – 70 -25 – 85 -40 – 85		-25 – 85 -40 – 85
Storage temperature (°C)	-40 – 85				
Maximum transfer speed (MB/s)	Read: up to 550 Write: up to 490	Read: up to 550 Write: up to 500	Read: up to 555 Write: up to 465	Read: up to 545 Write: up to 465	Read: up to 540 Write: up to 305
Maximum power consumption (mW)	< 1 550	< 1 300	< 1 550	< 1 475	< 1 700
MTBF	> 2 000 000	> 3 000 000	> 2 000 000		
Environmental tests resistance	High/Low temperature High Humidity (55%, 95% RH) Temperature Cycle (30 min, 20 cycles) Shock (1 500 G, Half Sin Pulse) Vibration (80 – 2 000 Hz/20 G in 3 Axis) Free Fall (0.8 m) Torque (1.3 N/m, 30 sec/5 times) Bending (>50 N for 1 min/5 times) Contact ESD (±4 KV contact)				
Dimensions ((L × W × H) (mm))	42.8 × 36.4 × 3.3				