ATP CFast Card
Industrial Grade Flash Memory Cards

Targeted Product Portfolio, Engineered Specifically for Your
Mission Critical Applications

Key Features

- Advanced wear leveling algorithm
- Bad block management
- AutoRefresh technology
- Power Loss Protection
- S.M.A.R.T support

Applications

- Portable compution
- Automation
- Industrial PC
- Gaming
- On board data storage

ATP CFast cards combine the convenient and trusted format of CompactFlash with the speed, capacity and performance of SATA III, while maintaining backward compatibility with other SATA versions.

They are recommended as boot and storage devices in embedded and industrial applications such as avionics/aerospace, automation, marine navigation, telecommunication/networking and medical equipment where mission-critical data requires the highest level of reliability, durability and data integrity.

Special features and technologies include: Power Loss Protection, which provides a hardware-based backup power circuit during a power failure; Advanced Wear Leveling for higher endurance and longer product life span; ECC (error correction code) and AutoRefresh technologies, which correct and monitor the error bit levels to ensure data integrity in frequently read areas, and S.M.A.R.T. (Self-Monitoring, Analysis, and Reporting Technology) function for easy monitoring of various device health parameters to help predict storage failure for preventive action.

Specifications

Product Name	CFast Card		
Product Line	Premium	Superior	
Naming	A800Pi	A600Si	A600Sc
Flash Type	SLC	MLC	MLC
Density	8 GB to 32 GB	16 GB to 128 GB	16 GB to 128 GB
Performance — Sequential Read up to (MB/s)	500	510	510
Performance — Sequential Write up to (MB/s)	300	175	175
Performance — Random Read IOPS up to	35,800	29,400	29,400
Interface	SATA III 6 Gb/s		
Operating Temperature (Tcase)*	-40°C to 85°C	-40°C to 85°C	0°C to 70°C
Endurance — TBW** (max.)	2,667 TB	267 TB	320 TB
Endurance — MTBF @ 25°C	>2,000,000 hours		
Reliability Number of Insertions	10,000 minimum		
Dimensions: L x W x H (mm)	36.4 x 42.8 x 3.6		

* Case Temperature, the composite temperature as indicated by SMART temperature attributes.

** Under highest Sequential write value. May vary by density, configuration and applications.

Technologies & Add-On Services	S.M.A.R.T.	Hardware-based Power Loss Protection	Advanced Wear Leveling	AutoRefresh	Dynamic Data Refresh	Secure Erase	Industrial Temperature	Anti-Sulfur Resistors	Conformal Coating
Premium	●	●	●	●	●	●	●	Δ	Δ
Superior	●	●	●	●	●	●	Δ	Δ	Δ

Δ: Customization option available on a project basis.

To learn more about this product, contact your ATP Representative.

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