



CFast card

The Global Leader in Specialized Storage and Memory Solutions



KEY FEATURES

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

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: optional Power Loss Protection, which provides a hardware-based backup power circuit and/or firmware-based solution 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 Line	Premium
	A800Pi
Interface	SATA III 6 Gb/s
Flash Type	SLC
Form Factor	CFast Type I
Operating Temperature	-40°C to 85°C
Power Loss Protection Options	Hardware + Firmware Based
Optional SED Features	-
Capacity	8 GB to 32 GB
Performance	
Sequential Read (MB/s) up to	500
Sequential Write (MB/s) up to	310
Random Reads IOPS up to	35,800
Random Writes IOPS up to	-
Endurance and Reliability	
Endurance (TBW) ¹ up to	2,667 TB
Reliability MTBF @ 25°C	>2,000,000 hours
Reliability Number of Insertions	10,000 minimum
Others	
Dimensions (mm)	36.4 x 42.8 x 3.6
Certifications	CE, FCC, UKCA, RoHS
Warranty	5 years

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

Technologies		S.M.A.R.T/ Life Monitor	Industrial Temperature	Firmware-Based Power Loss Protection	Hardware-Based Power Loss Protection	Advanced Wear Leveling	AutoRefresh	Dynamic Data Refresh
Premium	A800Pi	○	○	○	○	○	○	○



The Global Leader in Specialized Storage and Memory Solutions

WE BUILD WITH YOU

Product spec and its related information are subject to change without advance notice.
Please refer to www.atpinc.com for latest information

v1.0 012025
© Copyright 2025 ATP Electronics, Inc. All rights reserved.

ATP TAIWAN (HQ)
TEL: +886-2-2659-6368
sales-apac@atpinc.com

ATP USA
TEL: +1-408-732-5000
sales@atpinc.com

ATP EUROPE
TEL: +49-89-374-9999-0
sales-europe@atpinc.com

ATP JAPAN
TEL: +81-3-6260-0797
sales-japan@atpinc.com

ATP CHINA
TEL: +86-21-5080-2220
sales@cn.atpinc.com

ATP INDIA
sales-india@atpinc.com