

INTRODUCTION

Addonics' new CFast SSD, redefines the high-speed storage standard. The CFast flash memory with SATA interface features improved write/read performance over traditional Compact Flash flash memory.

Addonics' Enterprise class CFast SSD is designed to work in a much wider temperature environment, making it suitable for factory or application in non-temperature controlled operation condition. This Enterprise class of CFast SSD uses MLC flash memory and is thus more cost-effective than the Addonics industrial grade CFast SSD that is made of SLC flash. Designed with the latest SATA 3.0 interface, the Enterprise CFast can deliver data speed over 320 MB/sec and is more than 3 times faster than the fastest Compact Flash (CF) card in the market.

The Addonics CFast SSD is also available in SLC flash to boost the durability of the card to over 7 times that of a typical commercial grade MLC flash. For detail information on the industrial grade SLC type of CFast card, please visit the following product CFast SLC product web page.

Front view



Back view



FEATURES

- Enterprise class CFast MLC SSD
- Great for the following applications: Industrial Embedded Systems, Medical Solutions, Point-of-Sales, Gaming Industry, Automation Solutions, and others
- Choice of 16G - 64GB capacities
- SATA III 3.0Gbps interface
- MLC flash type
- Data transfer rate
 - Read Seq. up to 320MB/s
 - Write Seq. up to 165MB/s
- Industrial operating temperature: -40°C to +85°C
- Size of CF-1
- TeraBytes Written (TBW): 635 TBW for 256GB

Model	Capacity	NAND type	Price	Max. Read speed	Max. Write speed	Operating temp.
AFCFAS3W16G-M	16GB	MLC	\$45.00	320 MB/sec	165 MB/sec	-40°C to +85°C
AFCFAS3W32G-M	32GB	MLC	\$65.00	320 MB/sec	165 MB/sec	-40°C to +85°C
AFCFAS3W64G-M	64GB	MLC	\$107.00	320 MB/sec	165 MB/sec	-40°C to +85°C

SPECIFICATIONS

- Flash type: MLC
- Compliant with SATA Revision 3.0
- Advanced Flash management
 - Static and Dynamic Wear Leveling
 - Bad Block Management
 - TRIM
 - SMART
 - Over-Provision
- Power Fail Protection
- Voltage: 3.3 V +/- 5%
- Power consumption:
 - Active mode: < 1600mW
 - Idle mode: < 300mW
 - DEVSLP mode: < 5mW
- Dimension (LxWxH): 36.4mm x 42.8mm x 3.3mm
- TeraBytes Written (TBW): 635 TBW for 256GB
- ECC scheme: Up to 72 bits / 1K Byte
- UART function
- GPIO
- Operating shock rating: 1,500G
- Vibration: 20G
- MTBF: > 2,000,000 hours
- Humidity: RH 95% under 55°C (operational)
- Complies with Compact flash Association specification standards
- Operating Temperature: -40°C to +85°C
- Storage Temperature: -40°C to + 85°C
- Warranty: 3 year
- Compliant: RoHS, CE/FCC