FSC Series

Flash SATA CFast™ SLC ,MLC

Introduction

Axiomtek's FSC (Flash SATA CFast) series operates at SATAIII 6.0Gb/s. Compliant with CFast™ 2.0 standard, it is designed with 7+17 pin connector and is SATA compatible. Due to the idle power saving, it reduces 30% power consumption. The FSC is featured as small form factor, and suitable for most industrial application.
The FSC can work under harsh environment, and complies with ATA protocol. Without additional drives, the disk can be configured as a boot device or data storage device. The FSC support hardware write protect to prevent modification of valuable data on a device.

Features

- Compliant with CFast™ 2.0 Standard
  Capacity SLC: 2 GB ~ 64 GB
  MLC: 4 GB ~ 128 GB
- SATAIII interface
- Suitable for high demanding applications
- Well performed under harsh operating environment and industrial temperatures
- Anti-vibration & shock resistance
- Support static wear leveling algorithm
- S.M.A.R.T. & i-S.M.A.R.T. Supported
- Intelligent system for error recovery
- Excellent data transfer speed
- Extremely low power consumption
- High operating reliability & durability
- Hardware write protect
- Enhanced power cycling management

System

General Specification	
Capacity	SLC: 2 GB ~ 64 GB MLC: 4 GB ~ 128 GB
Interface	SATA III 6.0Gb/s
Connector	CFast™ 2.0 standard / 7+17pin SATA
Date Transfer Rate	SLC: Read: 470 MB/sec (max.) Write: 250 MB/sec (max.) MLC Read: 310 MB/sec (max.) Write: 150 MB/sec (max.)
Environmental Specification	
Operating Temperature	Standard Grade : 0°C ~ +70°C (32°F ~ 158°F) Industrial Grade : -40°C ~ +85°C (-40 °F ~ 185°F)
Storage Temperature	-55°C ~ +95°C (-67°F ~ 203°F)
Humidity	10%~95% non-condensing
Vibration	7 Hz to 2K Hz, 20G, 3 axes
Shock	Duration: 0.5ms, 1500G, 3 axes
System Reliability	
ECC technology	High reliability based on the internal ECC function
MTBF	>3,000,000 hours
Flash Endurance	SLC: 100,000 P/E Cycles MLC: 3,000 P/E Cycles
Wear-leveling	Support
Power Requirment	
DC Input Voltage	+3.3V DC +- 5%
Power Consumption	Read: 240mA (max.) Write: 320mA (max.) Idle: 110 (max.)
Physical Specification	
Enclosure Material	PC card plastic frame with metal cover
Dimensions (W xL x H)	42.8 x 36.4 x 3.6 mm

Ordering Information

SLC

Models (Standard temp. SLC)	Models (Industrial temp. SLC)	Form Factor	Capacity
FSC002GSC1T	FSC002GSW1T	7+17pin SATA	2 GB
FSC004GSC1T	FSC004GSW1T	7+17pin SATA	4 GB
FSC008GSC1T	FSC008GSW1T	7+17pin SATA	8 GB
FSC016GSC1T	FSC016GSW1T	7+17pin SATA	16 GB
FSC032GSC1T	FSC032GSW1T	7+17pin SATA	32 GB
FSC064GSC1T	FSC064GSW1T	7+17pin SATA	64 GB

MLC

Models (Standard temp. MLC)	Models (Industrial temp. MLC)	Form Factor	Capacity
FSC004GMC1T	FSC004GMW1T	7+17pin SATA	4 GB
FSC008GMC1T	FSC008GMW1T	7+17pin SATA	8 GB
FSC016GMC1T	FSC016GMW1T	7+17pin SATA	16 GB
FSC032GMC1T	FSC032GMW1T	7+17pin SATA	32 GB
FSC064GMC1T	FSC064GMW1T	7+17pin SATA	64 GB
FSC128GMC1T	FSC128GMW1T	7+17pin SATA	128 GB

* All specifications and photos are subject to change without notice.