

FSA Series

Flash SATA Disk /SATAIII SLC, MLC



▲ 2.5" SATA Flash Disk /SLC (MLC)

Introduction

Axiomtek's FSA (Flash SATA Disk) series is a high performance 2.5" flash disk and fully compatible with SATAIII standard which make it an ideal replacement for conventional SATA HDD without any driver or system modification. This 2.5" SATAIII flash disk is provided with huge capacities up to 256GB to meet diverse needs of data storage. With the features of high capacity storage, data integrity, anti-vibration and low power consumption, the FSA series is surely a solid solution for expanding an industrial computer's memory.

System

General Specification

Capacity	SLC : 4 GB ~ 256 GB MLC : 8 GB ~ 512 GB
Interface	SATA III 6.0 Gbp/s
Connector	7+15 pin male
Flash type	SLC /MLC
Form Factor	2.5"
Data Transfer Rate	SLC: Read: 68~490 MB/Sec (max.) Write: 52~430 MB/Sec (max.) MLC: Read: 120~290 MB/Sec (max.) Write: 20~260 MB/Sec (max.)

Environmental Specification

Operating Temperature	0°C~70°C (32°F ~158°F) (standard temp.) -40°C~85°C (-40 °F ~185°F) (industrial temp.)
Storage Temperature	-55°C~95°C (-67°F ~203°F)
Humidity	10%~95% non-condensing
Vibration	20G(7~2000Hz)
Shock	1500G/0.5ms

System Reliability

ECC technology	High reliability based on the internal ECC function
MTBF	>3,000,000 hours
R/W Endurance	2,000,000 times
Wear-leveling	Support

Power Requirement

DC Input Voltage	+5 DC +- 5%
Power Consumption	SLC (Target: 256 GB): Read: 482mA (max.) Write: 546mA (max.) Idle: 145mA (max.) MLC (Target: 512 GB): Read: 610mA (max.) Write: 870mA (max.) Idle: 110mA (max.)

Physical Specification

Enclosure Material	Aluminum Mechanical Cover
Dimensions	69.8 x 100 x 7.0mm (W x L x H) MLC 69.8 x 100 x 9.2mm (W x L x H) SLC *Tolerance ± 0.25mm

Features

- SATA III standard interface, Excellent data transfer speed
Capacity: SLC : 4 GB ~ 256 GB
MLC : 8 GB ~ 512 GB
- 2.5" standard form factor
- Suitable for high demanding applications
- Well performed under harsh operating environment
- Anti-vibration & shock resistance
- Data integrity with Error Detection Code/Error Correction Code (EDC/ECC)
- Intelligent error recovery system
- Perfect replacement of hard drive
- High operating reliability & durability
- Enhanced power cycling management & Low power consumption
- iSMART disk health monitoring

Ordering Information

SLC

Models (Standard temp. SLC)	Models (Industrial temp. SLC)	Interface	Capacity
FSA004GSC1T	FSA004GSW1T	SATAIII 6.0G	4GB
FSA008GSC1T	FSA008GSW1T	SATAIII 6.0G	8GB
FSA016GSC1T	FSA016GSW1T	SATAIII 6.0G	16GB
FSA032GSC1T	FSA032GSW1T	SATAIII 6.0G	32GB
FSA064GSC1T	FSA064GSW1T	SATAIII 6.0G	64GB
FSA128GSC1T	FSA128GSW1T	SATAIII 6.0G	128GB
FSA256GSC1T	FSA256GSW1T	SATAIII 6.0G	256GB

MLC

Models (Standard temp. MLC)	Models (Industrial temp. MLC)	Interface	Capacity
FSA008GMC1T	FSA008GMW1T	SATAIII 6.0G	8GB
FSA016GMC1T	FSA016GMW1T	SATAIII 6.0G	16GB
FSA032GMC1T	FSA032GMW1T	SATAIII 6.0G	32GB
FSA064GMC1T	FSA064GMW1T	SATAIII 6.0G	64GB
FSA128GMC1T	FSA128GMW1T	SATAIII 6.0G	128GB
FSA256GMC1T	FSA256GMW1T	SATAIII 6.0G	256GB
FSA512GMC1T	FSA512GMW1T	SATAIII 6.0G	512GB