

FSA 300 Series

Flash SATA Disk /mSATA SATA 3 SLC,MLC



▲ mSATA /SLC(MLC)

Introduction

Axiomtek's FSA mSATA series is designed as the standard Mini PCIe form factor with SATA interface, and support SATA III standard (6.0Gb/s) with excellent performance. The form factor refers to the MO-300 specification which established by JEDEC. Regarding of mechanical interference, the mSATA absolutely replaces the traditional hard disk and makes personal computer, in any field, smaller and easier.

The mSATA effectively reduced the booting time of operation system and the power consumption is less than hard disk drive (HDD), and complies with ATA protocol, no additional drives are required, and can be configured as a boot device or data storage device.

System

General Specification	
Capacity	SLC: 1 GB ~ 64 GB MLC: 4 GB ~ 128 GB
Interface	SATA III 6.0Gbp/s
Connector	mSATA, 52P/Mini PCIe
Flash type	SLC/MLC
Form Factor	MO300A/MO300B
Data Transfer Rate	SLC: Read: 460 MB/sec (max.) Write: 230 MB/sec (max.) MLC: Read: 460 MB/sec (max.) Write: 160 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	20 G (7~2000Hz)
Shock	1500G/0.5ms
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 Requirement	
DC Input Voltage	+3.3V/+5V single power supply operation
Idle Mode	SLC: 120mA (max.) MLC: 95mA (max.)
Physical Specification	
Dimensions	29.8 x 50.8 x 4.4 mm (W x L x H)

Features

- SATA III (6.0Gb/s) interface
- Capacity: SLC 1 GB to 64 GB
MLC 4 GB to 128 GB
- iSMART disk health monitoring
- Intelligent error recovery system
- Write protection security
- Anti-vibration mechanical design
- Excellent data transfer speed
- Zero mechanical interference
- JEDEC standard MO-300B dimension

Ordering Information

SLC			
Models (standard temp. SLC)	Models (industrial temp. SLC)	Interface	Capacity
FSA001G300SC1T	FSA001G300SW1T	SATAIII 6.0G	1 GB
FSA002G300SC1T	FSA002G300SW1T	SATAIII 6.0G	2 GB
FSA004G300SC1T	FSA004G300SW1T	SATAIII 6.0G	4 GB
FSA008G300SC1T	FSA008G300SW1T	SATAIII 6.0G	8 GB
FSA016G300SC1T	FSA016G300SW1T	SATAIII 6.0G	16 GB
FSA032G300SC1T	FSA032G300SW1T	SATAIII 6.0G	32 GB
FSA064G300SC1T	FSA064G300SW1T	SATAIII 6.0G	64 GB

MLC			
Models (Standard temp. MLC)	Models (industrial temp. MLC)	Interface	Capacity
FSA004G300MC1T	FSA004G300MW1T	SATAIII 6.0G	4 GB
FSA008G300MC1T	FSA008G300MW1T	SATAIII 6.0G	8 GB
FSA016G300MC1T	FSA016G300MW1T	SATAIII 6.0G	16 GB
FSA032G300MC1T	FSA032G300MW1T	SATAIII 6.0G	32 GB
FSA064G300MC1T	FSA064G300MW1T	SATAIII 6.0G	64 GB
FSA128G300MC1T	FSA128G300MW1T	SATAIII 6.0G	128 GB