FSA 301 Series

Flash SATA Disk/mSATA Mini SATA 3 SLC, MLC



Introduction

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

The mSATA mini 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 ~ 32 GB		
	MLC: 4 GB ~ 64 GB		
Interface	SATA III 6.0Gb/s		
Connector	mSATA, 52P/Mini PCle		
Flash Type	SLC/MLC		
Form Factor	M0300A/M0300B		
Data Transfer Rate	SLC: Read: 300 MB/sec (max.)		
	Write: 130 MB/sec (max.)		
	MLC: Read: 300 MB/sec (max.)		
	Write: 70 MB/sec (max.)		
Environmental Specific			
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	20G (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 Requirment			
DC Input Voltage	+3.3V/+5V single power supply operation		
Idle Mode	SLC: 100mA (max.)		
	MLC:100mA (max.)		
Physical Specification	<u> </u>		
Dimensions	29.8 x 26.8 x 4.4 mm (W x L x H)		

Features

- SATA III (6.0Gb/s) interface
- Capacity: SLC 1 GB to 32 GB MLC 4 GB to 64 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 M0300B dimension

Ordering Information

SLC			
Models	Models	Interface	Capacity
(Standard temp.)	(Industrial temp.)		
FSA001G301SC1T	FSA001G301SW1T	SATAIII 6.0G	1 GB
FSA002G301SC1T	FSA002G301SW1T	SATAIII 6.0G	2 GB
FSA004G301SC1T	FSA004G301SW1T	SATAIII 6.0G	4 GB
FSA008G301SC1T	FSA008G301SW1T	SATAIII 6.0G	8 GB
FSA016G301SC1T	FSA016G301SW1T	SATAIII 6.0G	16 GB
FSA032G301SC1T	FSA032G301SW1T	SATAIII 6.0G	32 GB

MLC

Models (Standard temp.)	Models (Industrial temp.)	Interface	Capacity
FSA004G301MC1T	FSA004G301MW1T	SATAIII 6.0G	4 GB
FSA008G301MC1T	FSA008G301MW1T	SATAIII 6.0G	8 GB
FSA016G301MC1T	FSA016G301MW1T	SATAIII 6.0G	16 GB
FSA032G301MC1T	FSA032G301MW1T	SATAIII 6.0G	32 GB
FSA064G301MC1T	FSA064G301MW1T	SATAIII 6.0G	64 GB

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