

FSD Series

Flash SATA DOM



Standard/Vertical type



Low-profile /Vertical type



Standard/Vertical type only for 32GB

Features

- Serial ATA II standard interface
- Capacity: 128MB to 32GB
- Suitable for high demanding applications
- Well performed under harsh operating environment and industrial temperatures
- Anti-vibration & shock resistance
- Data integrity with Error Detection Code/Error Correction Code (EDC/ECC)
- Perfect replacement of hard drive, compatible with Serial ATA
- High operating reliability & durability
- Low power consumption
- Fully compatible with devices and OS
- Intelligent system for error recovery
- Excellent data transfer speed



Introduction

Axiomtek's FSD (Flash SATA DOM) series is designed into Serial ATA II protocol type with compatible Serial ATA standard interface based on flash memory technology. This flash module is offered with various capacities ranging from 128MB up to 32GB and can operate under industrial temperature range goes from -40°C~85°C in the harsh operating environments. The features of reliability, high performance, cost-effective and easy-to-integrate designs make FSD series a perfect solution over traditional storage devices.

Specifications

General Specification	
Capacity	128MB~32GB
Interface	Serial ATA Standard II (3Gb/s)
Flash type	SLC
Connector	7Pin
Form Factor	Vertical/High-Profile and Vertical/Low-Profile
Sustained Speed Rate (Max)	128MB ~ 16GB : Read:68MB/sec.; Write:62MB/sec. 32GB: Read:130MB/sec.; Write:125MB/sec.
Environmental Specification	
Operating Temperature	0°C~70°C (0°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	5G(7~2000Hz)
Shock	50G/10ms

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	5V single power supply operation
Power Mode	Auto stand-by and sleep mode
Power Consumption	360mA(max.) Read: 170 mA, Write: 200 mA, Idle: 110 mA 380mA(max.) only for 32GB Read: 180 mA, Write: 200 mA, Idle: 110 mA
Physical Specification	
Enclosure Material	PC Mechanical Cover and UL-94
Dimensions (W x L x H)	Standard: 20.9mmx32.8mmx7.9mm Low profile: 32.9mmx22.8mmx8.0mm Standard 32GB:25.2mmx*32.8mmx6.8mm

* All the specifications and photos are subjected to be changed without notice.



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■ Ordering Information

Models (standard temp.)	Models (industrial temp.)	Form Factor	Capacity
FSDVC128-S	FSDVW128-S	Standard/SATA	128MB
FSDVC256-S	FSDVW256-S	Standard/SATA	256MB
FSDVC512-S	FSDVW512-S	Standard/SATA	512MB
FSDVC01G-S	FSDVW01G-S	Standard/SATA	1GB
FSDVC02G-S	FSDVW02G-S	Standard/SATA	2GB
FSDVC04G-S	FSDVW04G-S	Standard/SATA	4GB
FSDVC08G-S	FSDVW08G-S	Standard/SATA	8GB
FSDVC16G-S	FSDVW16G-S	Standard/SATA	16GB
FSDLC128-S	FSDLW128-S	Low-Profile/SATA	128MB
FSDLC256-S	FSDLW256-S	Low-Profile/SATA	256MB
FSDLC512-S	FSDLW512-S	Low-Profile/SATA	512MB
FSDLC01G-S	FSDLW01G-S	Low-Profile/SATA	1GB
FSDLC02G-S	FSDLW02G-S	Low-Profile/SATA	2GB
FSDLC04G-S	FSDLW04G-S	Low-Profile/SATA	4GB
FSDLC08G-S	FSDLW08G-S	Low-Profile/SATA	8GB
FSDLC16G-S	FSDLW16G-S	Low-Profile/SATA	16GB
FSDVC32G-Q	FSDVW32G-Q	Standard/SATA	32GB

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