FSD Series

Flash SATA DOM



▲ Standard/Vertical type



▲ Low-profile /Vertical type

Features

- Serial ATA II standard interface; Serial ATA Standard III for 32 GB
- Capacity: 128 MB to 32 GB
- 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 128 MB up to 32 GB 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.

System

General Specification	
Capacity	128 MB~32 GB
Interface	Serial ATA Standard II (3Gb/s) Serial ATA Standard III (6Gb/s) for 32GB
Flash type	SLC
Connector	7-pin
Form Factor	Vertical/Standard and Vertical/Low-Profile
Sustained Speed Rate (Max)	128 MB ~16 GB : Read: 68 MB/sec.; Write: 62 MB/sec. 32 GB: Read: 300 MB/sec.; Write: 130 MB/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 Requirment	
DC Input Voltage	5V single power supply operation
Power Mode	Auto stand-by and sleep mode
Power Consumption	128 MB ~16 GB Read: 235 mA, Write: 254 mA, Idle: 100 mA only for 32 GB Read: 120 mA, Write: 130 mA, Idle: 100 mA
Physical Specification	
Enclosure Material	PC Mechanical Cover and UL-94
Dimensions (W xL x H)	Standard: 20.9 mm x 39.5 mm x 7.9 mm Low profile: 32.9 mm x 29.5 mm x 8.0 mm

Ordering Information

Models (standard temp.)	Models (industrial temp.)	Form Factor	Capacity
FSD128SSVCT	FSD128SSVWT	Standard/SATA	128MB
FSD256SSVCT	FSD256SSVWT	Standard/SATA	256MB
FSD512SSVCT	FSD512SSVWT	Standard/SATA	512MB
FSD01GSSVCT	FSD01GSSVWT	Standard/SATA	1GB
FSD02GSSVCT	FSD02GSSVWT	Standard/SATA	2GB
FSD04GSSVCT	FSD04GSSVWT	Standard/SATA	4GB
FSD08GSSVCT	FSD08GSSVWT	Standard/SATA	8GB
FSD16GSSVCT	FSD16GSSVWT	Standard/SATA	16GB
FSD32GSSVC1T	FSD32GSSVW1T	Standard/SATA	32GB
FSD128SLVCT	FSD128SLVWT	Low-Profile/SATA	128MB
FSD256SLVCT	FSD256SLVWT	Low-Profile/SATA	256MB
FSD512SLVCT	FSD512SLVWT	Low-Profile/SATA	512MB
FSD01GSLVCT	FSD01GSLVWT	Low-Profile/SATA	1GB
FSD02GSLVCT	FSD02GSLVWT	Low-Profile/SATA	2GB
FSD04GSLVCT	FSD04GSLVWT	Low-Profile/SATA	4GB
FSD08GSLVCT	FSD08GSLVWT	Low-Profile/SATA	8GB
FSD16GSLVCT	FSD16GSLVWT	Low-Profile/SATA	16GB
FSD32GSLVC1T	FSD32GSLVW1T	Low-Profile/SATA	32GB



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