The Micro Disk Serial ATA Module is solid-state design for serial and parallel ATA translation interface. It's an ideal replacement for standard SATA hard disk by no errors even under extreme shock and vibration conditions. The Micro Disk Serial ATA Module is extremely small and highly suitable for rugged environments, thus providing an excellent solution for space limitations. It is compatible with all consumer applications designed for data storage, allowing simple use for the end user.



Features:

- Serial ATA 1.0a Specification compliant.
- Max Capacity supported: 2G Byte.
- Optional designs for left side type and right side type
- High reliability assured based on the internal Error Correcting Code function.
- Reliable wear-leveling algorithm to ensure the best of flash endurance.
- Auto Standby and Sleep Mode supported.
- Flexible file system structure.
- Automatic Recognition and Initialization of flash devices.
- Excellent performance supporting Ultra DMA Mode.
- Capacity supported: 128MB, 256MB, 512MB, 1GB, 2GB

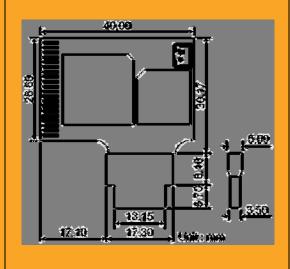
Specifications	Descriptions			
Compatibility	Serial ATA 1.0a Specification			
Flash Technology	NAND Type SLC Flash Memory based			
Flash Capacity	128MB, 256MB, 512MB, 1GB, 2GB			
Form factor	Horizontal Type in Rightwards Horizontal Type in Leftwards			
Connector	Standard 7-pin female Serial ATA connector			
System Performance				
Data Transfer Mode	PIO mode or UDMA mode			
Sequential Read	15Mbytes / sec Max.			
Sequential Write	12Mbytes / sec Max.			
Average Access Time	2ms (estimated)			
Environmental Specification				
Standard Temperature	Operating	0°C ~ +70°C		
	Non-operating	-20°C ~ +80°C		
Wide Temperature	Operating	-40°C ~ +85°C		
	Non-operating	-50°C ~ +95°C		
Humidity	5~95% non-condensing			
Acoustic Noise (@ 1 meter)	0dB			
Vibration	20 G peak to peak			
Shock	1500 G			



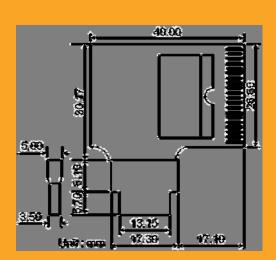
Reliability				
Main Time Between Failure	> 1,000,000 hours			
Error Code Correction	4 bits ECC Code per 256Bytes			
	Greater than 1,000,000 cycles logically contributed by Wear-leveling and advanced bad sector management			
Endurance				
	algorithms			
Data reliability	< 1 non-recoverable error in 10 ¹⁴ bits read			
Data Retention	10 years			
Power Consumption				
Power Voltage	+3.3V ± 5%	+5V ± 10%		
Read	180mA(Typ.)	180mA(Typ.)		
Write	210mA(Typ.)	210mA(Typ.)		
Sleep Mode	120mA(Typ.)	120mA(Typ.)		

Physical Specification

Left Side Type



Right Side Type



	Standard Temperature Level	3 years
Warranty	Wide temperature Level	3 years (Others based on special
		request)