Cactus Technologies

The Cactus Technologies 2.5" SATA Solid State Drives are high capacity solid-state flash memory products that comply with the industry standard SATA interface. Our 2.5" line of robust and reliable storage solution is designed for today's rigorous industrial market applications. The storage capacity of the SATA Solid State Drive line ranges from 8GB to 128GB.

Cactus 2.5" SATA Solid State Drive Features

- Industry Standard 2.5" Form Factor
- Capacities from 8GB to 128GB
- Serial ATA 2.6 Compliant
- Supports SATA I/II 1.5/3.0 Gbps Transfer Rate
- 5V Operation
- SMART Life cycle analysis option
- Unique Electronic Device ID
- Supports Traceability Barcode
- Solid State Design with no moving parts
- Powerful 8-Bit ECC
- High Data Reliability
- High Shock & Vibration
- Wide Operating Temperature Range
- 4-Million Hour MTBF
- 5 Year Warranty

Performance

Sustained Read Transfer Rate	Up to 145MB/sec
Sustained Write Transfer Rate	Up to 110MB/sec

Reliability

Industrial Wear Leveling
Industrial Error Checking & Correction
Less than 1 Error in 10^{14} Bits Read
MTBF : 4,000,000 Hours

Enviromental & Power

Operating Temperature Range

Standard	0°C to 70°C
Extended	-45°C to +90°C

Power Consumption

	5.0V
Read	: 600mA
Write	: 630mA
Sleep	: 270mA

Shock & Vibration	(MIL-STD-883G)
Shock	: 3000G
Vibration	: 20G

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Industrial Grade 2.5" SATA Solid State Drives (SSD)

Interface	Industry Standard SATA	
Performance	Sustained Read Transfer Rate	145MB/sec
	Sustained Write Transfer Rate	110MB/sec
Power Requirement	DC Input Voltage	5V ± 10%
	Sleep	270mA
	Read	600mA
	Write	630mA
Environmental	Standard Temperature	0°C to 70°C
	Extended Temperature	-45°C to +90°C
	Humidity	8-95%, non-condensing
	Vibration	20G
	Shock	3000G
	Altitude	100,000 feet
Reliability and Maintenance	Endurance	2,000,000 erase cycles per block
	MTBF	4,000,000 Hours
	Data Reliability	less than 1 Error in 10^{14} bits read
Capacities	8GB - 128GB	

RoHS Compliant