The Cactus Technologies 2.5" IDE SSD - 503 Series is a high capacity solid-state flash memory product that complies with the IDE interface. Our 2.5" line of robust and reliable storage solutions are designed for today's rigorous industrial market applications. The storage capacity of the Solid State Drive line ranges from 1GB to 64GB.

CACTUS 2.5" IDE SSD FEATURES

- INDUSTRY STANDARD
  2.5" IDE SSD FORM FACTOR

- CARD CAPACITIES
  - 1GB to 64GB

- WRITE-ABORT AND BROWN-OUT
  PROTECTION CIRCUITRY

- INTERFACE SUPPORTS
  - ATA PIO Mode 0-4
  - Multiword DMA Mode 0-2
  - UDMA Mode 0-4

- 5.0V VOLTAGE SUPPORT

- UNIQUE ELECTRONIC SERIAL CARD ID

- TRACEABILITY BARCODE

- SMART LIFE CYCLE ANALYSIS OPTION

- SOLID STATE DESIGN

- INDUSTRY LEADING
  - Data Reliability
  - Shock & Vibration
  - Operating Temp Range
  - Data Transfer Rates

- ZERO DB NOISE

- 4-MILLION HOUR MTBF

- 5-YEAR WARRANTY

PERFORMANCE

Read Data Transfer Rate
up to 50MB/sec

Write Data Transfer Rate
up to 25MB/sec

RELIABILITY

- Advanced Wear Leveling Algorithm
- Error Checking & Correction
- Less Than 1 Error in 10^{14} Bits Read
- MTBF 4,000,000 Hours
- >2,000,000 erase/program cycles

ENVIRONMENTAL & POWER

Operating Temperature Range	
Standard	0°C to 70°C
Extended	-45°C to +90°C

POWER CONSUMPTION

	5.0V
Read	145mA
Write	100mA
Sleep	15mA

SHOCK & VIBRATION

Shock	3,000G
Vibration	30G peak-to-peak

INDUSTRIAL GRADE 2.5" IDE SSD

➜ **INTERFACE**	PC Card ATA, True IDE Mode, and ANSI: ATA7 Compliant	
➜ **INTERFACE TRANSFER RATE**	133MB/sec	
➜ **POWER REQUIREMENT**	DC Input Voltage	3.3V or 5V ± 10%
	Sleep	15mA
	Read	145mA
	Write	100mA
➜ **ENVIRONMENTAL SPECIFICATION**	Standard Temperature	0°C to 70°C
	Extended Temperature	-45°C to +90°C
	Humidity	8-95%, non-condensing
	Acoustic Noise	0dB
	Vibration	30G peak to peak max.
	Shock	3000G max.
	Altitude	100,000 feet max.
➜ **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
➜ **CARD CAPACITY**	1GB to 64GB	

RoHS
Compliant

www.cactus-tech.com