

CACTUS TECHNOLOGIES  
**2.5" IDE Solid State Drive (SSD)**  
**203 Series**



The Cactus Technologies 2.5" IDE Solid State Drive (SSD) - 203 Series is a high capacity solid-state flash memory product that complies with the industry standard IDE standard Interface. We offer 2.5" FlashDrive line of robust and reliable storage solutions designed specifically for today's rigorous industrial market applications. The storage capacity of FlashDrive is 128MB to 16GB.

**CACTUS 2.5" IDE SSD**

- ➔ **INDUSTRY STANDARD 2.5" IDE FLASHDRIVE**
- ➔ **CARD CAPACITIES**
  - 128MB to 16GB
- ➔ **INTERFACE SUPPORTS**
  - True IDE Mode
  - ATA PIO Mode 0-4
  - Multiword DMA Mode 2
- ➔ **DUAL VOLTAGE SUPPORT**
  - 3.3V or 5.0V
- ➔ **UNIQUE ELECTRONIC SERIAL CARD ID**
- ➔ **TRACEABILITY BARCODE**
- ➔ **SOLID STATE DESIGN WITH NO MOVING PARTS**
- ➔ **RELIABILITY**
  - High Data Reliability
  - High Shock & Vibration Tolerances
  - Wide Operating Temp Range
- ➔ **ZERO DB NOISE**
- ➔ **4-MILLION HOUR MTBF**
- ➔ **5-YEAR WARRANTY**



**PERFORMANCE**

**Read Data Transfer Rate**

up to 8MB/sec

**Write Data Transfer Rate**

up to 6MB/sec



**RELIABILITY**

- Supports Wear Leveling
- Supports ECC
- Less Than 1 Error in 10<sup>14</sup> Bits Read
- MTBF 4,000,000 Hours



**ENVIRONMENTAL & POWER**

**Operating Temperature Range**

Standard 0°C to 70°C

Extended -45°C to +90°C



**POWER CONSUMPTION**

	3.3V	5.0V
Read	45mA	47mA
Write	53mA	58mA
Sleep	0.4mA	0.8mA



**SHOCK & VIBRATION**

**Shock** 1,000G  
**Vibration** 30G peak-to-peak

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**INDUSTRIAL GRADE 2.5" IDE SSD**

→ INTERFACE	Industry Standard IDE	
→ INTERFACE TRANSFER RATE	16.70MB/sec	
→ POWER REQUIREMENT	DC Input Voltage	3.3V ± 10% or 5V ± 10%
	Sleep	0.4mA      0.8mA
	Read	45mA      47mA
→ ENVIRONMENTAL SPECIFICATION	Write	53mA      58mA
	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.
→ RELIABILITY AND MAINTENANCE	Shock	1000G max.
	Altitude	70,000 feet max.
	Endurance	2,000,000 erase cycles per block
→ CARD CAPACITY	MTBF	4,000,000 Hours
	Data Reliability	less than 1 Error in 10 <sup>14</sup> bits read
→ CARD CAPACITY	128MB to 16GB	

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