

CACTUS TECHNOLOGIES

1.8" IDE Solid State Drive (SSD)

303 Series



The Cactus Technologies 1.8" IDE Solid State Drive (SSD)

- **303 Series** is a high capacity solid-state flash memory product that complies with the IDE interface. Our 1.8" 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 128MB to 32GB.

CACTUS 1.8" IDE SSD FEATURES

- **INDUSTRY STANDARD 1.8" FORM FACTOR**
- **CARD CAPACITIES**
 - 128MB to 32GB
- **WRITE-ABORT AND BROWN-OUT PROTECTION CIRCUITRY**
- **INTERFACE SUPPORTS**
 - ATA PIO Mode 0-4
 - Multiword DMA Mode 0-2
 - UDMA Mode 0-4
- **DUAL VOLTAGE SUPPORT**
 - 3.3V or 5.0V
- **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 35MB/sec

Write Data Transfer Rate

up to 20MB/sec



RELIABILITY

- Advanced Wear Leveling Algorithm
- Industrial Error Checking & Correction
- Less Than 1 Error in 10^{14} 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

	5.0V
Read	220mA
Write	180mA
Sleep	0.5mA



SHOCK & VIBRATION

Shock	3,000G
Vibration	20G peak-to-peak

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INDUSTRIAL GRADE IDE SOLID STATE DRIVE

→ INTERFACE	Industry Standard IDE	
→ INTERFACE TRANSFER RATE	66MB/sec	
→ POWER REQUIREMENT	DC Input Voltage	5V ± 10%
	Sleep	0.5mA
	Read	220mA
→ ENVIRONMENTAL SPECIFICATION	Write	180mA
	Standard Temperature	0°C to 70°C
	Extended Temperature	-45°C to +90°C
	Humidity	8-95%, non-condensing
	Acoustic Noise	0dB
	Vibration	20G peak to peak max.
→ RELIABILITY AND MAINTENANCE	Shock	3000G max.
	Altitude	100,000 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 ¹⁴ bits read
→ CARD CAPACITY	128MB to 32GB	

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