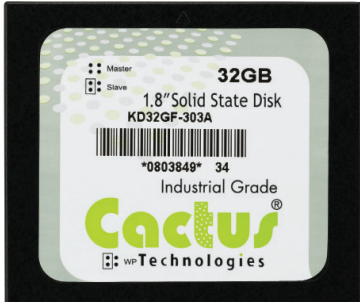


# CACTUS TECHNOLOGIES

## 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<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

	5.0V
Read	220mA
Write	180mA
Sleep	0.5mA



### SHOCK & VIBRATION

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

CACTUS TECHNOLOGIES  
**1.8" IDE Solid State Drive (SSD)**  
**303 Series**



**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
	Write	180mA
	Standard Temperature	0°C to 70°C
	Extended Temperature	-45°C to +90°C
→ ENVIRONMENTAL SPECIFICATION	Humidity	8-95%, non-condensing
	Acoustic Noise	0dB
	Vibration	20G 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 <sup>14</sup> bits read
→ CARD CAPACITY	128MB to 32GB	

**Cactus Technologies Limited**  
 Suite C, 15/F, Capital Trade Center  
 62 Tsun Yip Street, Kwun Tong  
 Kowloon, Hong Kong  
 Tel: +852-2797-2277  
 Email: sales@cactus-tech.com

**Cactus USA**  
 3112 Windsor Road  
 Suite A356  
 Austin, Texas 78703  
 Tel: (512) 775-0746  
 Email: americas@cactus-tech.com



www.cactus-tech.com