

2.5" SATA II Solid State Drive (SSD) 900S Series



The Cactus Technologies 2.5" SATA II Solid State Drive (SSD) - 900S Series is a high capacity solid state flash memory product that complies with the serial ATA 2.6 standard and is functionally compatible with a SATA Hard Disk Drive. Cactus Technologies 900S Series SATA SSDs provide up to 256GB of formatted storage capacity.

CACTUS 2.5" SATA FEATURES

- **INDUSTRY STANDARD 2.5" FORM FACTOR**
- **CARD CAPACITIES**
 - 4GB to 256GB
- **SUPPORTS SATA I/II 1.5/3.0 GBPS TRANSFER RATE**
- **5V OPERATION**
- **UNIQUE ELECTRONIC DEVICE ID**
- **TRACEABILITY BARCODE**
- **SMART LIFE CYCLE ANALYSIS OPTION**
- **SOLID STATE DESIGN**
- **RELIABILITY**
 - High Data Reliability
 - High Shock & Vibration Tolerances
 - Wide Operating Temp Range
- **4-MILLION HOUR MTBF**
- **5-YEAR WARRANTY**



PERFORMANCE

Read Data Transfer Rate

up to 110MB/sec

Write Data Transfer Rate

up to 90MB/sec



RELIABILITY

- Industrial Wear Leveling
- Industrial Error Checking & Correction
- Less Than 1 Error in 10¹⁴ 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	205mA
Write	250mA
Sleep	65mA



SHOCK & VIBRATION

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

CACTUS TECHNOLOGIES
2.5" SATA II Solid State Drive (SSD)
900S Series



INDUSTRIAL GRADE 2.5" SATA SSD

→ INTERFACE	Industry Standard SATA II (Serial ATA 2.6 Spec)		
→ INTERFACE TRANSFER RATE	3.0Gb/sec		
→ POWER REQUIREMENT	DC Input Voltage	5V ± 10%	
	Sleep	65mA	
	Read	205mA	
	Write	250mA	
	→ 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		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 ¹⁴ bits read	
→ CARD CAPACITY	4GB to 256GB		

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