

CACTUS TECHNOLOGIES 2.5" SATA II SSD 220S Series



The Cactus Technologies 2.5" SATA II SSD - 220S Series is a high capacity solid state flash memory product that complies with the serial ATA 2.6 standard, ATA-8 and is functionally compatible with a SATA Hard Disk Drive. Cactus Technologies 2.5" SATA II SSDs provide up to 256GB of formatted storage capacity.

CACTUS SATA II SSD FEATURES

- **INDUSTRY STANDARD 2.5" SATA II SSD FORM FACTOR**
- **SSD CAPACITIES**
 - 4GB to 256GB
- **SUPPORTS SATA I/II 1.5/3.0 GBPS TRANSFER RATE**
- **COMPLIANT WITH:**
 - Serial ATA 2.6 Spec
 - ANSI ATA-8 Spec
- **5.0V OPERATION**
- **UNIQUE ELECTRONIC DEVICE ID**
- **TRACEABILITY BARCODE**
- **SMART LIFE CYCLE ANALYSIS OPTION**
- **SOLID STATE DESIGN**
- **RELIABILITY**
 - High Data Reliability
 - High Shock & Vibration Tolerances
- **200K HOUR MTBF**
- **2-YEAR WARRANTY**



PERFORMANCE

Read Data Transfer Rate

up to 240 MB/sec

Write Data Transfer Rate

up to 75 MB/sec



RELIABILITY

- Wear Leveling
- Error Checking & Correction
- Less Than 1 Error in 10^{14} Bits Read
- MTBF 200,000 Hours



ENVIRONMENTAL & POWER

Operating Temperature Range

Standard 0°C to 70°C

Extended Contact Cactus



POWER CONSUMPTION

	5.0V
Read	170mA
Write	110mA
Sleep	75mA



SHOCK & VIBRATION

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

CACTUS TECHNOLOGIES
2.5" SATA II SSD
220S Series



COMMERCIAL GRADE 2.5" SATA II SSD

→ INTERFACE	ANSI ATA 8 Spec; Serial ATA 2.6 Spec	
→ INTERFACE TRANSFER RATE	3.0Gb/sec	
→ POWER REQUIREMENT	DC Input Voltage	5.0V ± 10%
	Sleep	75mA
	Read	170mA
	Write	110mA
→ ENVIRONMENTAL SPECIFICATION	Standard Temperature	0°C to 70°C
	Extended Temperature	Contact Cactus
	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	100,000 erase cycles per block
	MTBF	200,000 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