

CACTUS TECHNOLOGIES 2.5" SATA III SSD 240S Series



The Cactus Technologies 2.5" SATA III SSD - 240S Series is a high capacity solid state flash memory device which complies with the serial ATA 3.1 specifications, ATA-8 ACS2 command set compatible and can functionally replace a SATA Hard Disk Drive in any application. Cactus Technologies 2.5" SATA III SSDs provide up to 1TB of formatted storage capacity.

CACTUS SATA III SSD FEATURES

- **INDUSTRY STANDARD 2.5" SATA III SSD FORM FACTOR**
- **SSD CAPACITIES**
 - 16GB to 512GB (7mm height)
 - 1TB (9.5mm height)
- **SUPPORTS SATA 1.5/3.0/6.0GBPS**
- **COMPLIANT WITH:**
 - Serial ATA 3.1 Spec
 - ANSI ATA-8 ACS2 Command Set
- **5.0V OPERATION**
- **SUPPORTS NCQ W/MAX QUEUE DEPTH OF 32**
- **ATA SECURITY FEATURE SET**
- **SUPPORTS TRIM FEATURE**
- **SMART LIFE CYCLE ANALYSIS**
- **SOLID STATE DESIGN**
- **RELIABILITY**
 - High Data Reliability
 - High Shock & Vibration Tolerances
- **200K HOUR MTBF**
- **2-YEAR WARRANTY**



PERFORMANCE

Read Data Transfer Rate

up to 560 MB/sec

Write Data Transfer Rate

up to 460 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

-40°C to 85°C



POWER CONSUMPTION

	5.0V
Read	520mA
Write	850mA
Sleep	95mA



SHOCK & VIBRATION

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

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COMMERCIAL GRADE 2.5" SATA III SSD

→ INTERFACE	ANSI ATA-8 ACS2; Serial ATA 3.1 Spec.	
→ INTERFACE TRANSFER RATE	6.0Gb/sec	
→ POWER REQUIREMENT	DC Input Voltage	5.0V ± 10%
	Idle	95mA
	Read	520mA
	Write	850mA
→ ENVIRONMENTAL SPECIFICATION	Standard Temperature	0°C to 70°C
	Extended Temperature	-40°C to 85°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	100,000 erase cycles per block
	MTBF	200,000 Hours
	Data Reliability	less than 1 Error in 10 ¹⁴ bits read
→ MEMORY CAPACITY	16GB to 1TB	



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