

2.5" Solid State Drive (SSD) 230S Series



The **Cactus Technologies - 230S Series SSD** is a high capacity solid-state flash memory product that complies with the Serial ATA 3.0 standard and is functionally compatible with a SATA hard disk drive. Cactus Technologies® -230S series SSD provide up to 640GB of formatted storage capacity.

CACTUS SATA III SSD FEATURES

- **INDUSTRY STANDARD 2.5" FORM FACTOR**
- **SSD CAPACITIES**
 - 128GB to 640GB
- **SUPPORTS SERIAL ATA I/II/III 1.5/3.0/6.0 GBPS TRANSFER RATE**
- **COMPLIANT WITH:**
 - Serial ATA 3.0 Spec
 - ATA8-ACS2 Command Set
- **5.0V OPERATION**
- **SUPPORTS:**
 - ATA SMART Feature Set
 - ATA Security Feature Set
 - SATA NCQ w/ max. 32 Queue depth
 - SATA partial and slumber modes
- **RELIABILITY**
 - High Data Reliability
 - High Shock & Vibration Tolerances
- **SOLID STATE DESIGN**
- **200K HOUR MTBF**
- **2-YEAR WARRANTY**



PERFORMANCE

Read Data Transfer Rate

up to 380 MB/sec

Write Data Transfer Rate

up to 400 MB/sec



RELIABILITY

- Advanced Wear Leveling
- Error Checking & Correction
- Less Than 1 Error in 10¹⁴ Bits Read



ENVIRONMENTAL & POWER

Operating Temperature Range

Standard

0°C to 70°C

Extended

Contact Cactus



POWER CONSUMPTION

	5.0V
Read	440mA
Write	1.15A
Standby	230mA



SHOCK & VIBRATION

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

CACTUS TECHNOLOGIES
2.5" Solid State Drive (SSD)
230S Series



COMMERCIAL GRADE SOLID STATE DRIVE

→ INTERFACE	ANSI ATA8-ACS2 Spec; Serial ATA 3.0 Spec	
→ INTERFACE TRANSFER RATE	6.0Gb/sec	
→ POWER REQUIREMENT	DC Input Voltage	5.0V ± 10%
	Standby	230mA
	Read	440mA
	Write	1.15A
→ 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.
→ RELIABILITY AND MAINTENANCE	Altitude	100,000 feet max.
	Endurance	100,000 erase cycles per block
	MTBF	200,000 Hours
→ CARD CAPACITY	Data Reliability	less than 1 Error in 10 ¹⁴ bits read
	128GB to 640GB	

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