

2.5" Solid State Drive (SSD) 910S Series



The Cactus Technologies Solid State Drive (SSD) - 910S Series

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® -910S series SSD provide up to 640GB of formatted storage capacity.

CACTUS SATA III SSD FEATURES

- **INDUSTRY STANDARD 2.5" FORM FACTOR**
- **CARD CAPACITIES**
 - 64GB to 640GB
- **SUPPORTS SATA I/II/III 1.5/3.0/6.0 GBPS TRANSFER RATE**
- **5V OPERATION**
- **SUPPORTS:**
 - ATA SMART Feature Set
 - ATA Security Feature Set
 - SATA NCQ w/ max. 32 Queue depth
 - SATA partial and slumber modes
- **UNIQUE ELECTRONIC DEVICE ID**
- **UP TO 60K IOPS**
- **TRACEABILITY BARCODE**
- **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 430MB/sec

Write Data Transfer Rate

up to 440MB/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	470mA
Write	660mA
Standby	230mA



SHOCK & VIBRATION

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

CACTUS TECHNOLOGIES
2.5" Solid State Drive (SSD)
910S Series



INDUSTRIAL 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	5V ± 10%
	Standby	230mA
	Read	470mA
	Write	660mA
→ 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	64GB to 640GB	

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