

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



The Cactus Technologies Solid State Drive (SSD) - 910S Pro 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 Pro Series SSD provide up to 640GB of formatted storage capacity and have the added features of AES256 Encryption as well as Quick Erase via a hardware jumper.

CACTUS SATA III SSD FEATURES

- INDUSTRY STANDARD 2.5" FORM FACTOR
- SSD CAPACITIES
 - 64GB to 640GB
- AES256 ENCRYPTION
- QUICK ERASE (512GB in <15 seconds)
- 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
- 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 10^{14} 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

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910S Pro 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	

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