

CACTUS TECHNOLOGIES

mSATA Solid State Drive (SSD)

900S Series



The Cactus Technologies mSATA Solid State Drive (SSD) - 900S Series is a high capacity solid state flash memory product that complies with the serial ATA 2.6 standard and is functionally compatible with a SATA Hard Disk Drive. Cactus Technologies mSATA SSDs provide up to 64GB of formatted storage capacity.

CACTUS MSATA SSD FEATURES

- **INDUSTRY STANDARD MSATA FORM FACTOR**
- **MODULE CAPACITIES**
 - 4GB to 64GB
- **SUPPORTS SATA I/II 1.5/3.0 GBPS TRANSFER RATE**
- **COMPLIANT WITH:**
 - Serial ATA 2.6 Spec
 - ANSI ATA 8 Spec
- **3.3V OPERATION**
- **UNIQUE ELECTRONIC DEVICE ID**
- **SMART LIFE CYCLE ANALYSIS OPTION**
- **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 110MB/sec

Write Data Transfer Rate

up to 90MB/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

	3.3V
Read	220mA
Write	300mA
Sleep	75mA



SHOCK & VIBRATION

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

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INDUSTRIAL GRADE MSATA SSD

→ INTERFACE	mSATA Serial ATA 2.6 Spec; ANSI ATA 8 Spec	
→ INTERFACE TRANSFER RATE	3.0Gb/sec	
→ POWER REQUIREMENT	DC Input Voltage	3.3V ± 10%
	Sleep	75mA
	Read	220mA
	Write	300mA
→ 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	4GB to 64GB	

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