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**
- Wear Leveling
- Error Checking & Correction
- Less Than 1 Error in $10^{14}$ Bits Read
- MTBF 200,000 Hours

**Performance**

**Read Data Transfer Rate**
- Up to 560 MB/sec

**Write Data Transfer Rate**
- Up to 460 MB/sec

**Environmental & Power**

**Operating Temperature Range**
- **Standard:** 0°C to 70°C
- **Extended:** −40°C to 85°C

**Power Consumption**
- **Read:** 520mA
- **Write:** 850mA
- **Sleep:** 95mA

**Shock & Vibration**
- **Shock:** 3,000G
- **Vibration:** 20G peak-to-peak
# 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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