

CACTUS TECHNOLOGIES CFast Card 240S Series



The Cactus Technologies CFast Card - 240S Series is a high capacity solid state flash memory product that complies with the serial ATA 3.1 standard, CFast 2.0, ATA-8 and is functionally compatible with a SATA Hard Disk Drive. Cactus Technologies 240S CFast cards are based on MLC NAND and provide up to 128GB of formatted storage capacity.

CACTUS CFAST CARD FEATURES

- **INDUSTRY STANDARD CFAST FORM FACTOR**
- **CARD CAPACITIES** 8GB to 128GB
- **SUPPORTS SATA 1.5/3.0/6.0 GBPS TRANSFER RATE**
- **COMPLIANT WITH:**
 - Serial ATA 3.1 Spec
 - ANSI ATA-8 Spec
 - CFA CFast 2.0 Spec
- **3.3V ± 5% OPERATION**
- **MLC NAND**
- **SUPPORTS NCQ W/MAX QUEUE DEPTH OF 32**
- **ATA SECURITY FEATURE SET**
- **TRACEABILITY BARCODE**
- **SUPPORTS TRIM COMMANDS**
- **SMART LIFE CYCLE ANALYSIS**
- **SOLID STATE DESIGN**
- **RELIABILITY**
 - High Data Reliability
 - High Shock & Vibration Tolerances
- **200K HOUR MTBF**
- **2-YEAR WARRANTY**



PERFORMANCE

Read Data Transfer Rate

up to 350MB/sec

Write Data Transfer Rate

up to 180MB/sec



RELIABILITY

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



ENVIRONMENTAL & POWER

Operating Temperature Range

Standard 0°C to 70°C

Extended -40°C to 85°C



POWER CONSUMPTION

	3.3V ± 5%
Read	410 mA
Write	530 mA
Sleep	90 mA



SHOCK & VIBRATION

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

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CFast Card
240S Series



COMMERCIAL GRADE CFAST CARD

→ INTERFACE	CFast 2.0 Spec; ANSI ATA-8 ACS2; Serial ATA 3.1 Spec.	
→ INTERFACE TRANSFER RATE	1.5/3.0/6.0 Gb/sec	
→ POWER REQUIREMENT	DC Input Voltage	3.3V ± 5%
	Idle	90mA
	Read	410mA
	Write	530mA
	Standard Temperature	0°C to 70°C
	Extended Temperature	-40°C to 85°C
→ ENVIRONMENTAL SPECIFICATION	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
→ CARD CAPACITY	8GB to 128GB	



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