256GB
CFast™
Commercial Grade
Cactus
® Technologies

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

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
➜ 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
➜ CARD CAPACITY	8GB to 128GB	

Cactus®
Technologies

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SERIAL ATA

RoHS Compliant