

# CFast D150Q



## Features

- Support static wear leveling algorithm
- S.M.A.R.T. & i-S.M.A.R.T. Supported
- Intelligent system for error recovery
- Excellent data transfer speed
- Compliant with CFast 1.0 standard

R:130MB/s  
W:120MB/s

SATA II  
3Gb/s

ECC &  
Wear leveling

Thermal  
sensor

S.M.A.R.T

CFast  
Type-I

## Specifications

|                           |   |
|---------------------------|---|
| Connector Type            | CFast 1.0 standard                                  |
| Flash Type                | SLC (Single Level Cell)                             |
| Density                   | 2GB, 4GB, 8GB, 16GB, 32GB, 64GB                     |
| Transfer Mode             | SATA II, SATA I, PIO 0~4, MDMA 0~2, UDMA 0~6        |
| Sustained R/W Performance | Read : 130MB/sec (max.)<br>Write : 120MB/sec (max.) |

## Environmental

|                          |  |
|--------------------------|--|
| DC Input                 | +3.3V DC $\pm$ 5%  |
| Power consumption (Max.) | Read: 200 mA<br>Write: 230 mA<br>Idle: 140 mA                |
| Operating Temperature    | 0°C~+70°C (Standard Grade)<br>-40°C~+85°C (Industrial Grade) |
| Storage Temperature      | -55°C~+95°C  |
| Humidity                 | Relative Humidity: 10-95%, non-condensing                    |
| Flash Endurance          | 100,000 program/erase cycles                                 |
| MTBF                     | > 3,000,000 hours  |
| Certification            | CE, FCC, RoHS  |
| Warranty                 | 5 years  |

## Mechanicals

|                       |                                |
|-----------------------|--------------------------------|
| Dimension (W x L x H) | 42.8mm x 36.4mm x 3.6mm        |
| Weight                | 10g $\pm$ 1g                   |
| Vibration             | 7 Hz to 2K Hz, 3 axes          |
| Shock                 | Duration: 0.5ms, 1500G, 3 axes |

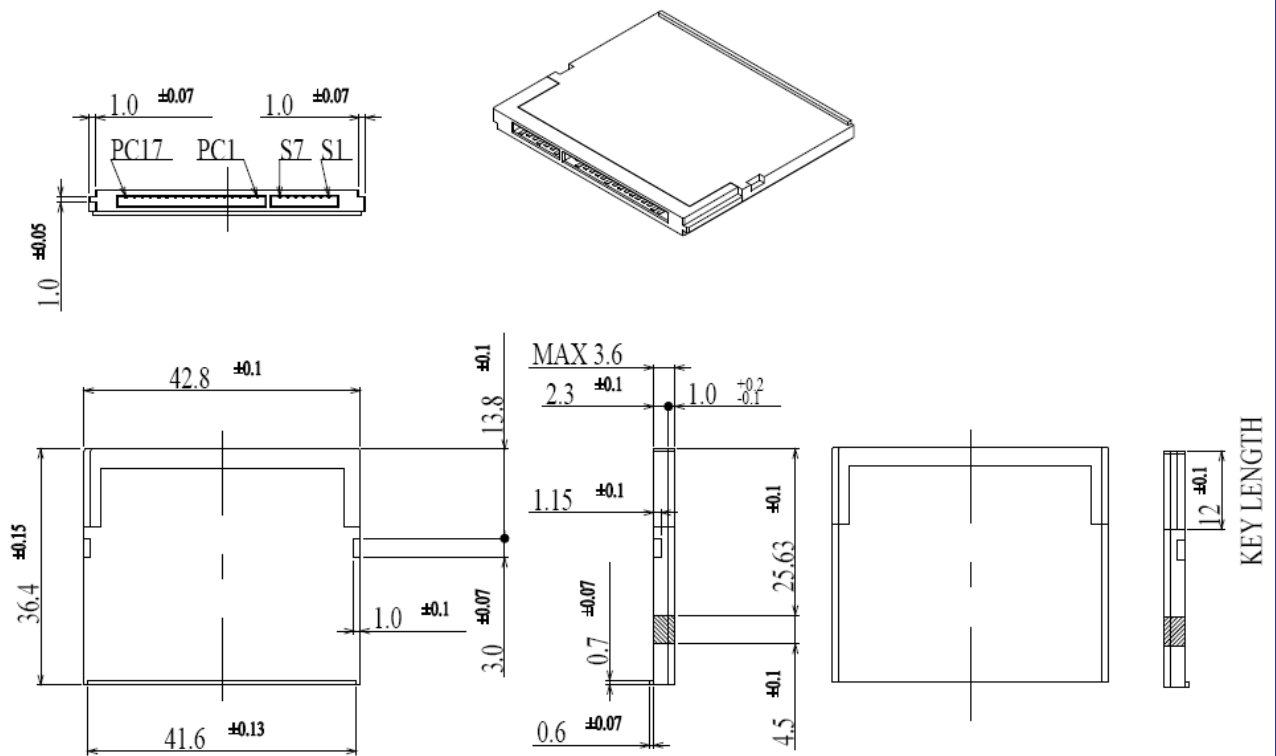
## Health monitoring Tool

|              |  |
|--------------|--|
| S.M.A.R.T.   | Supported                              |
| i-S.M.A.R.T. | Supported (Utility for Windows, Linux) |

## Ordering Information

| Capacity | Standard Grade                     | Industrial Grade                   |
|----------|------------------------------------|------------------------------------|
| 2GB      | DC1T- <a href="#">02GJ30A</a> C2DB | DC1T- <a href="#">02GJ30A</a> W2DB |
| 4GB      | DC1T- <a href="#">04GJ30A</a> C2QB | DC1T- <a href="#">04GJ30A</a> W2QB |
| 8GB      | DC1T- <a href="#">08GJ30A</a> C2QB | DC1T- <a href="#">08GJ30A</a> W2QB |
| 16GB     | DC1T- <a href="#">16GJ30A</a> C2QB | DC1T- <a href="#">16GJ30A</a> W2QB |
| 32GB     | DC1T- <a href="#">32GJ30A</a> C2QB | DC1T- <a href="#">32GJ30A</a> W2QB |
| 64GB     | DC1T- <a href="#">64GJ30A</a> C2QB | DC1T- <a href="#">64GJ30A</a> W2QB |

# Mechanical Dimension



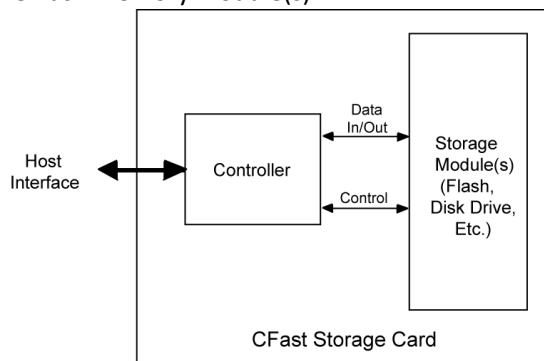
## General Description

CFast is a small form factor card standard that encompasses CFast semiconductor (Flash) data storage cards and magnetic disk cards.

The CFast card provides high capacity data storage that electrically complies with the Serial ATA International Organization standard. The CFast card uses the same commands, but implements additional control signals on the power connector to manage activity LED, write protect and power down/up of the SATA PHY.

## CFast Storage Card

The CFast Storage Card contains a single chip controller and flash memory module(s) in a matchbook-sized package with a 7+17-pin connector consisting of a SATA compatible 7 pin signal connector and a 17 pin power and control connector. The controller interfaces with a host system allowing data to be written to and read from the flash memory module(s).



CFast Storage Card Block Diagram