

SanDisk CompactFlash Specifications



System Performance

*Notes 1 & 2

Start-up Time

Sleep to Write	2.5 msec max.
Sleep to Read	50 msec max.
Reset to Ready	50 msec typical 400 msec max.
Data Transfer Rate to/from Flash	20.0 MB/sec burst
Data Transfer Rate to/from Host	16.0 MB/sec burst
Active to Sleep Delay	Programmable
Controller Overhead Command to DRQ	50 msec max

Power Requirements

*note 1

DC Input Voltage

Commercial	3.3V $\pm$ 5%, 5V $\pm$ 10%
Industrial	3.3V $\pm$ 5%, 5V $\pm$ 5%

Typical Power Dissipation

*Notes 3 & 4

Sleep	200μA (3.3V) 500μA (5V)
Read	21 mA (3.3V) 34 mA (5V)
Write	21 mA (3.3V) 34 mA (5V)

Environmental Specifications

Temperature

Operating Commercial	0 - 60° C
Operating Extended	-40 - 85° C
Non-Operating Commercial	-25 - 85° C
Non-Operating Extended	-50 - 100° C

Humidity

Operating	8 - 95%, non-condensing
Non-Operating	8 - 95%, non-condensing
Acoustic Noise (at 1 meter)	0 dB

Vibration

Operating	15 G peak to peak max.
Non-Operating	15 G peak to peak max.

Shock

Operating	2,000 G. max.
Non-Operating	2,000 G. max.

Reliability and Maintenance

MTBF (Mean Time Between Failures)	>1,000,000 hours
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Preventive Maintenance	None
Data Reliability	< 1 non-recoverable error in 10^{14} bits read

Physical Specifications	CompactFlash	CompactFlash Adapter
Length	1.433 in (36.4 mm)	3.370 in (85.6 mm)
Width	1.685 in (42.8 mm)	2.126 in (54.0 mm)
Thickness (Body)	0.130 in (3.30 mm)	0.1968 in (5.0 mm)
Thickness (Removable Edge)	0.155 in (3.94 mm)	N/A
Weight	0.40 oz (11.4 g)	1.16 oz (33 g)

Ordering Information

Order Model #	SDCFBX-YY-101-00 CompactFlash
	SDCF-03 CompactFlash Adapter (See Note 5)

WhereX: I. Extended temp.
Commerical temp.

YY: **16:** 16.0 MB
32: 32.1 MB
64: 64.2 MB
128: 128.0 MB
192: 192.0 MB
256: 256.9 MB
384: 384.5 MB

512: 512.5 MB

Note 1: All values quoted are typical at ambient temperature and nominal supply voltage unless otherwise stated.

Note 2: All performance timing assumes the controller is in the default (i.e., fastest) mode.

Note 3: Sleep mode currently is specified under the condition that all card inputs are static CMOS levels and in a "Not Busy" operating state.

Note 4: The currents specified show the bounds of programmability of the product.

Note 5: CF interface surface mount header and ejector may be ordered from 3M Company. To order, call: 1-800-225-5373.

Specifications are subject to change without notice.