



Features

- Capacities up to 16GB
- ATA interface and True IDE mode support, MWDMA
- 2 million write/erase cycles
- Sustained throughput up to 10MB/s
- Low power consumption
- CFA and PCMCIA compliant
- Hot swappable
- Supports 3.3V or 5V operation
- Temperature rated for commercial and industrial use
- 1000G operating shock tolerance
- Optional Purge, End of Life, Password Protection and Write Protection features available
- RoHS compliant
- IC Tower™ Chip Stacking Technology
- 5 year warranty

CompactFlash

Industrial Grade Solid State Storage

One of the most popular flash memory products in the world, STEC CompactFlash offers reliable, high-capacity storage that is compatible with CF Type I and Type II devices.

Engineered for performance and reliability, these small, high speed cards are ideal for industrial and high reliability applications.

At the heart of all STEC industrial grade solid state storage products is a proprietary controller that incorporates an advanced dynamic wear leveling algorithm in combination with 5 bit EDC / 4 bit ECC delivering exceptional endurance and reliability.

STEC offers value-added services to OEM customers, including customized form factors and test solutions, custom firmware, software imaging, controlled bill of materials, customer-specific labeling and serialization.

Product Key

Part #: SLCF(xxx)(M/G)M1U(I)
SLCF(xxx)(M/G)M1T2U(I)

xxx = Capacity
M/G = Megabyte/Gigabyte
U= RoHS Compliant
T2 = CompactFlash Type II
(for capacities of 10GB or greater)
I = Industrial Temperature

Examples:

SLCF512MM1U(I) = 512MB CF Card

SLCF16GM1T2U(I) = 16GB CF Card (Type II)

Specifications

INTERFACE

Type	ATA with True IDE Mode Support
Connector	50 Pin CF Interface

PERFORMANCE

Data Transfer Rate	
Sustained Read/Write	Up to 10 MB/sec
Burst Data Transfer Rate	Up to 16.7 MB/sec

POWER (at ambient temperature and nominal supply voltage)

DC Input Voltage	3.3V $\pm$ 5% to 5V $\pm$ 5%
Typical Power Consumption	
Sleep Current	2 mA
Read Current	60 mA
Write Current	65 mA - 75 mA

ENVIRONMENTAL

Operating Temperature	
Commercial	32° to 158°F (0° to 70°C)
Industrial	-40° to 185°F (-40° to 85°C)
Storage Temperature	-85° to 302°F (-65° to 150°C)
Humidity	5% to 95% non-condensing
Operating Vibration	15G; 10-2000 Hz @147 meter/sec ²
Operating Shock	1000G; 4903.3 meter/sec ²

RELIABILITY

MTBF (Mean Time Between Failure)	greater than 4,000,000 hours
Endurance	2,000,000 write/erase cycles
Non-Recoverable Error Rate	less than 1 in 10 ¹⁴ bits read

PHYSICAL

Length	1.433 $\pm$ 0.006 in (36.4 $\pm$ 0.15 mm)
Width	1.685 $\pm$ 0.004 in (42.8 $\pm$ 0.10 mm)

THICKNESS

CF Type I	0.130 $\pm$ 0.004 in (3.300 $\pm$ 0.10 mm)
CF Type II (for capacities of 10GB or greater)	0.196 in (5.00 mm) max

WEIGHT

CF Type I	0.40 oz (11.4 g)
CF Type II	0.47 oz (13.5 g)

Applications

- Instrumentation
- Medical Equipment
- Industrial Automation
- Telecommunications
- Data Recorders
- Avionics Systems
- Electronic Kiosks
- Networking Equipment



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