

### CompactFlash Industrial / Commercial Ultra High Performance Series



The California PC FLASH Ultra High Performance Series CompactFlash Cards combine advanced Flash controller technology and **Industrial NAND Type SLC flash memory**. The California PC FLASH Industrial CompactFlash Cards are available in **Industrial Temperature Grade (-40°C ~+85°C)** and **Commercial Temperature Grade (0°C ~+70°C)** (to operate in various applications and normal or harsh operating environments. Solid-State CompactFlash™ Cards are more durable than conventional hard disk drives and consume around 5% of the power required by small disk drives. CompactFlash Cards are used with Data Collection, GPS units,

Measuring and Test Equipment, Laptops, Monitoring Equipment, data storage devices, Kiosks, and many other applications. When a CompactFlash Card is inserted in an IDE adapter, it performs as an IDE Flash disk. California PC FLASH's Industrial CompactFlash Cards are the best solutions for critical applications.

**Features:** CompactFlash Specification 3.0 compliant - True IDE Mode compatible - Supports Wear-leveling and advanced bad sector management algorithms - Advanced ECC (Error Code Correction) technology +5 V ± 10% or +3.3 V ± 5% operation. Industrial Grade capacities from 16MB up to 16GB – Plug into a CF socket or, with an adapter (FCFPC-ADPT), into a standard Type II PC Card slot.

- Fully compatible with CompactFlash Specification Version 3.x, 4.x, 5.x and 6.x
- Quick Erase standard feature (by software command). Physical switch optional.
- PCMCIA/IDE Interface (support up to PIO Mode 6/Multi Word DMA Mode 4/PCMCIA Ultra DMA Mode 7/Ultra DMA Mode 7)
- ECC 72 bits in 1,024 byte data
- Static/Dynamic Wear-Leveling
- Enhanced Power Cycling to protect data with sudden loss of power/fluctuation
- Read: Up to 137 MB/s
- Write : Up to 95 MB/s
- Very low power consumption
- Build for extreme environments
- 3.0 to +5.5V operation
- Noiseless
- MTBF > 3,000,000 hours
- Supports O/S: Win 31/95/98/Me/NT/2000/XP/2003/Vista/WinCE, QNX, Linux, DOS, Windows 7, 8, 10 and more
- Capacity: 128MB, 256MB, 512MB, 1GB, 2GB, 4GB, 8GB, 16GB, 32GB, and 64GB
- RoHS, CE & FCC compliant

California PC FLASH

CompactFlash

Industrial Grade

Industrial Temperature

Commercial Temperature

Ultra High  
Performance Series

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For more product info, pricing  
and ordering visit:

[www.CaliforniaPC.com](http://www.CaliforniaPC.com)

California Peripherals & Components, Inc.  
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# California Peripherals & Components, Inc.

## Industrial Grade Solid State Flash Storage

### Performance

Data Transfer Rate To/From Flash		Various by transfer mode
Read	UDMA	Up to 137 MB/s
Write	UDMA	Up to 95 MB/s

### Environmental Specifications

Industrial Temperature	Operating & Storage	-40°C + 85°C
Commercial Temperature	Operating & Storage	0°C + 70°C
Vibration	Operating	20G (80Hz to 200Hz)
Humidity	Operating Max Non-operating Max	5 ~ 95% non-condensing 5 ~ 95% non-condensing
Shock	Operating	1500G
Altitude	Operating Non-operating	50,000 Feet Maximum

### Power Consumption

DC Input Voltage 100mV max. ripple (p-p)		3.3V and 5V
+3.3V Current	Standby Mode	6.5 mA
	Read Mode	220 mA
	Write Mode	220 mA

### Reliability

MTBF (Main Time Between Failure)	> 3,000,000 hours
Data Reliability	< 1 non-recoverable error in 10 <sup>14</sup> bits read < 1 erroneous correction in 10 <sup>20</sup> bits read
Wear-leveling Algorithms	Supported
ECC Technology	Up to 72 bits / 1K Byte
Data Retention	10 years
Warranty	3 Years

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Industrial Grade Solid State Flash Storage

## Physical Specifications

Weight (maximum)	14g Maximum
Length	36.40 ± 0.15 mm (1.433 ± 0.006 in.)
Width	42.8 ± 0.10 mm (1.685 ± 0.004 in.)
Thickness	3.3 ± 0.10 mm (0.130 ± 0.004 in.)

## Part Numbers\*

Industrial Temperature (-40°C to +85°C)			
Choose option from table below. -4382 is our recommended default.			
128MB	FCFI-128MB-XXXX	8GB	FCFI-08GB-XXXX
256MB	FCFI-256MB-XXXX	16GB	FCFI-16GB-XXXX
512MB	FCFI-512MB-XXXX	32GB	FCFI-32GB-XXXX
1GB	FCFI-01GB-XXXX	64GB	FCFI-64GB-XXXX
2GB	FCFI-02GB-XXXX	CF to PC Card Adapter	FCFPC-ADPT-02
4GB	FCFI-04GB-XXXX		

Commercial Temperature (0°C to +70°C)			
Choose option from table below. -4382 is our recommended default.			
128MB	FCF-128MB-XXXX	8GB	FCF-08GB-XXXX
256MB	FCF-256MB-XXXX	16GB	FCF-16GB-XXXX
512MB	FCF-512MB-XXXX	32GB	FCF-32GB-XXXX
1GB	FCF-01GB-XXXX	64GB	FCF-64GB-XXXX
2GB	FCF-02GB-XXXX	CF to PC Card Adapter	FCFPC-ADPT-02
4GB	FCF-04GB-XXXX		

### \*Available Options:

- 2182 = Removable, PIO
- 2282 = Fixed, PIO
- 2382 = Auto Detect, PIO
- 3182 = Removable, MWDMA
- 3282 = Fixed, MWDMA
- 3382 = Auto Detect, MWDMA
- 4182 = Removable, UDMA
- 4282 = Fixed, UDMA
- 4382 = Auto Detect, UDMA (recommended default)
- A382 = Auto Detect, Auto Detect

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