

California PC FLASH
Type II PC Card
(PCMCIA)

Industrial Grade Commercial Temp

216 Avenida Fabricante, Ste 108 San Clemente, CA 92672

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For more product into visit: www.CaliforniaPC.com

California Peripherals & Components, Inc.

Industrial Solid State Flash Storage

Industrial PC Card PCMCIA Type II ATA



The California PC FLASH Industrial PC Card / PCMCIA ATA Flash Cards utilize NAND Type SLC flash memory for fast read / write times. The California PC FLASH PCMCIA ATA Flash Cards have an COMMERCIAL TEMPERATURE rating of 0°C to +70°C to fulfill specialized applications in normal commercial operating environments. With the great advantages of non-volatile and solid state, the PCMCIA ATA Flash Cards are more robust than conventional hard disk drives and consume around 10% of the power required by small mechanical disk drives. PC Card / PCMCIA ATA Flash Cards are

used with Handheld PCs, PDAs, Digital Cameras, Laptops and Desktop PCs as data storages devices. When a PCMCIA ATA Flash Card is inserted into an IDE adapter, it performs like a traditional rotating disk drive. California PC FLASH's PCMCIA ATA Flash Cards offer the ideal solution for critical applications requiring a long term supply using consistent components.

Features:

- ATA/True IDE Mode compatible
- NAND type SLC flash based
- High performance and Commercial Temp -0°C to +70°C
- Designed for Harsh Environments
- Operating modes supports PC Card Memory Mode, PC Card I/O Mode, True-IDE Mode
- Reliable wear-leveling algorithm to ensure the best of flash endurance
- Supports Ultra DMA Mode (128MB or higher)
- Data Transfer Rate of 66.6Mbyte/sec under UDMA-4 mode
- +5 Volts or +3.3 Volts + 5% operation
- Very Low Power Consumption
- MTBF > 2,000,000 hours
- Capacity: 16MB, 32MB, 64MB, 128MB, 256MB, 512 MB, 1GB, 2GB, 4GB, 8GB
- Vibration 20G
- Shock 1,500G
- RoHS Compliant



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Performance

Data Transfer Mode	PIO Mode 4 (default) or UDMA Mode 4	
Sequential Read	29Mbytes / sec Max.	
Sequential Write	19Mbytes / sec Max.	
Average Access Time	2ms (estimated)	
Sleep to Write	7ms Max.	
Sleep to Read	4ms Max.	

Environmental Specifications

Temperature	Operating: Non-Operating	0°C ~ +70°C -20°C ~ +80°C
Humidity	Operating & Non- operating:	5% ~ 95% non-condensing
Accoustic Noise	Operating & Non- Operating	0dB
Vibration	Operating & Non- operating	20G
Shock	Operating & Non- operating	1500G

Power Consumption

DC Input Voltage)	+3.5V ± 5% +5V ± 10%
Sleep Mode:	2.3mA (Typ.)
Read Mode: Write Mode:	57.7mA (Typ.)
	60mA (Typ.)

Reliability

MTBF	> 2,000,000 hours	
ECC	4 bits ECC code	
Endurance	> 2,000,000 cycles logically contributed by wear-leveling and advanced bad sector management algorithms	
Data Reliability	< 1 non-recoverable error in 10 ¹⁴ bits read	
Data Retention	10 years	
Warranty	3 Years	

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Physical Specifications

Length	85.5 ± 0.1 mm (3.366 ± .004 in)
Width	54.4 ± 0.1 mm (2.142 ± .004 in)
Thickness	3.3 ± 0.1 mm (.130 ± .004 in) Interface Height / 5.0 mm (0.197
	inches) Body Height (Type II)
Weight	28.6 g (1.0 oz) maximum
(maximum)	

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Part Numbers*

16MB	FPC-16MB-02	1GB	FPC-1024MB
32MB	FPC-32MB	2GB	FPC-2048MB
64MB	FPC-64MB	4GB	FPC-4096MB
128MB	FPC-128MB	8GB	FPC-8192MB
256MB	FPC-256MB	16GB	Use FCF-16GB with FCFPC-ADPT-02
512MB	FPC-512MB		

*Removable disk mode by Default - Also available in FIXED disk mode "F"

-F = Fixed

-A = Auto Detect

-D2 = Multi Word DMA 2, Removable

-U4 = Ultra DMA 4, Removable

-D2A = Multi Word DMA 2, Auto Detect

-U4A = Ultra DMA 4, Auto Detect

-D2F = Multi Word DMA 2, Fixed Disk

-U4F = Ultra DMA 4, Fixed Disk

ALSO AVAILABLE IN INDUSTRIAL TEMPERATURE VERSIONS RATED AT -40°C to +85°C

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