

California PC FLASH

Type II PC Card

(PCMCIA)

Industrial Grade

-40°C to +85°C

California Peripherals & Components, Inc.

Industrial Temperature 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 INDUSTRIAL TEMPERATURE rating of -40°C to +85°C to fulfill specialized applications in normal or harsh 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 Industrial Equipment, Aviation Electronics, 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 or USB drive. California PC FLASH's PCMCIA ATA Flash Cards offer the ideal solution for critical applications requiring

Features:

- ATA/True IDE Mode compatible
- NAND type SLC flash based
- High performance and Industrial Temp -40°C to +85°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 DMA Modes 0 to 4
- Supports Ultra DMA Modes 0 to 6
- Data Transfer Rate of 43Mbytes/sec under UDMA modes
- +5 Volts or +3.3 Volts + 5% operation
- Very Low Power Consumption
- MTBF > 2,000,000 hours
- Capacity: 32MB, 64MB, 128MB, 256MB, 512 MB, 1GB, 2GB, 4GB, 8GB, 16GB, 32GB
- Vibration: 15G peak-to-peak maximum
- Shock: 2,000G maximum
- Altitude: 50,000 feet maximum
- RoHS Compliant

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For more product info visit: www.CaliforniaPC.com





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Performance

Data Transfer Mode	PIO 4 (default), Multiword DMA 2, UDMA 4 (other modes available)	
Sequential Read	43Mbytes / sec Max. (depends on data transfer mode)	
Sequential Write	35Mbytes / sec Max. (depends on data transfer mode)	

Environmental Specifications

Temperature	Operating: Non-Operating	-40°C ~ +85°C -50°C ~ +95°C	
Humidity	Operating & Non- operating:	5% ~ 95% non-condensing	
Accoustic Noise	Operating & Non- Operating	0dB	
Vibration	Operating & Non- operating	15G	
Shock	Operating & Non- operating	2000G	
Altitude	Operating & Non- operating	50,000 feet	

Power Consumption

DC Input Voltage 100mV max.	+5V ± 10%
Standby Mode: Read Mode: Write Mode:	12mA
	95mA
	140mA

Reliability

> 2,000,000 hours	
RS-code ECC capable of correcting 24 bits in a 1,024 byte data	
> 1,000,000 cycles logically contributed by wear-leveling and advanced bad sector management algorithms	
1 non-recoverable error in 10 ¹⁴ bits read	
10 years	
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	5.0 mm (0.197 inches) Body Height (Type II)
Weight (Max.)	28.6 g (1.0 oz) maximum

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* Part Numbers (see suffixes below)

32MB	FPCI-32MB-XXX2	2GB	FPCI-02GB-XXX2
64MB	FPCI-64MB-XXX2	4GB	FPCI-04GB-XXX3
128MB	FPCI-128MB-XXX2	8GB	FPCI-08GB-XXX3
256MB	FPCI-256MB-XXX2	16GB	FPCI-16GB-XXX3
512MB	FPCI-512MB-XXX2	32GB	FPCI-32GB-XXX3
1GB	FPCI-01GB-XXX2		

*Removable disk mode / data transfer mode PIO 4 by Default

-2132 = Removable, PIO 4 (default)

-2232 = Fixed, PIO 4

-3332 = Auto Detect, Multi Word DMA 2 -3132 = Removable, Multi Word DMA 2

-3232 = Fixed, Multi Word DMA 2

-3332 = Auto Detect, Multi Word DMA 2

-4132 = Removable, Ultra DMA 4

-4232 = Fixed, Ultra DMA 4

-4333 = Auto Detect, Ultra DMA 4

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^{*} If you need any other data transfer mode not listed above or custom CHS values, please contact us.

