

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 Handheld PCs, PDAs, Digital Cameras, Laptops and Desktop PCs as data storage 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.

California PC FLASH
Type II PC Card
(PCMCIA)

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 Ultra DMA Mode (128MB or higher)
- Data Transfer Rate of 66.6Mbyte/sec under UDMA-4 mode
- +5 Volts or +3.3 Volts \pm 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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For more product info visit:

California Peripherals & Components, Inc.
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Performance

Data Transfer Mode	PIO Mode 4 (default), MWDMA 2, 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	-40°C ~ +85°C -50°C ~ +95°C
Humidity	Operating & Non-operating:	5% ~ 95% non-condensing
Acoustic 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:	57.7mA (Typ.)
Write Mode:	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 (maximum)	28.6 g (1.0 oz) maximum

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Part Numbers*

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

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