California Peripherals & Components, Inc.

Commercial Temperature Solid State Flash Storage

PC Card PCMCIA Type II ATA

Commercial Grade

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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 0ºC** to **+70ºC** 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 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

Features:

- ATA/True IDE Mode compatible
- NAND type SLC flash based
- High performance and Industrial Temp **0ºC ~+70ºC**
- Designed for Harsh Environments
- Operating modes supports PC Card Memory Mode, PC Card I/O Mode and 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, 16GB
- Vibration 20G
- Shock 1,500G
- RoHS Compliant

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.

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Environmental Specifications

Temperature	Operating: Non-Operating	0ºC ~ +70ºC -20ºC ~ +80ºC
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: Read Mode: Write Mode:	2.3mA (Typ.)
	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

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)
Weight (maximum)	28.6 g (1.0 oz) maximum

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	FPCI-16384MB
512MB	FPCI-512MB		

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

-F	=Fixed	-U4A	=UDMA 4, Auto Detect
-A	=Auto Detect	-D2F	=DMA 2, Fixed
-D2	=Removable, DMA 2	-U4F	=UDMA 4, Fixed
-U4	=Removable, UDMA 4		
-D2A	=DMA 2, Auto Detect		

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