

### Aviation Series Industrial Grade PCMCIA Flash



The California PC FLASH Industrial Grade **Aviation Series** PCMCIA / PC Card utilizes NAND Type SLC flash memory for fast read / write times and long endurance and extreme temperatures. The California PC FLASH Aviation Series PCMCIA ATA Flash Cards have an INDUSTRIAL TEMPERATURE rating of **-40°C** to **+85°C** for use in extreme conditions. 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 monitoring equipment, data loggers, data

card readers/writers, laptops, GPS units, desktop PCs, aviation and automotive equipment, legacy equipment, train systems, and 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.

- **Industrial Temperature rated to -40°C ~ +85°C**
- Compatible with PCMCIA ATA specification. Compatible with all PC Card Services and Socket Services.
- PCMCIA ATA / IDE interface. Support for 8 or 16 bit host data transfer
- Host Interface: 68 pins, female, PCMCIA Type II Form Factor
- Support for 8-bit or 16-bit host data transfer
- Flash Type: **SLC** NAND type
- Read: up to 35 MB/s, Write: up to 16 MB/s
- Power Consumption (5V) < 119 mA Read, < 107 mA Write (Max. values)
- No power data retention, batteries not required
- MTBF: 3,000,000 hours / 3,000,000 read/write cycles
- Vibration: 20G peak to peak maximum
- ECC: 4 bits per random error per sector
- S.M.A.R.T.
- Dynamic Wear-Leveling for flash endurance
- Supports multiple Operating Systems
- Capacities: 128MB, 256MB, 512MB, 1GB, 2GB, 4GB, and 8GB
- Zero-Power Data Retention, no batteries required
- Warranty: 3 years

California Peripherals & Components, Inc.  
[www.CaliforniaPC.com](http://www.CaliforniaPC.com)



California PC FLASH

Aviation Series

ATA PC Card  
PCMCIA Flash

Industrial Grade

California Peripherals &  
Components, Inc.

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For more product information,  
pricing and ordering visit:

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# California Peripherals & Components, Inc.

## Industrial Temperature Solid State Flash Storage

### Performance

Data Transfer Rate To/From Flash		Maximum values and depends on data transfer mode of card and capacity.
	Read	35.0 MB/sec (Max.)
	Write	16.0 MB/sec (Max.)

### Environmental Specification

Industrial Temperature	Operating Non-operating	-40°C + 85°C -50°C + 95°C
Vibration	Operating Max	20G peak to peak Max.
Humidity	Operating/Non-Operating	5% to 95% non-condensing
Shock	Operating Max	1500G (duration 0.5ms, half sine wave)

### Power Consumption

Operating Voltage		
+3.5V ± 5% +5V ± 10%	Standby Mode (5V)	1.9 mA (Max.)
	Read Mode (5V)	119 mA (Max.)
	Write Mode (5V)	107 mA (Max.)
	Standby Mode (3.3V)	0.2 mA (Max.)
	Read Mode (3.3V)	96 mA (Max.)
	Write Mode (3.3V)	90 mA (Max.)

### Reliability

MTBF	> 3,000,000 hours
Endurance	> 3,000,000 cycles
Wear-leveling Algorithms	Dynamic wear-leveling algorithms
ECC Technology	4 bits random error per sector
Warranty	5 Years

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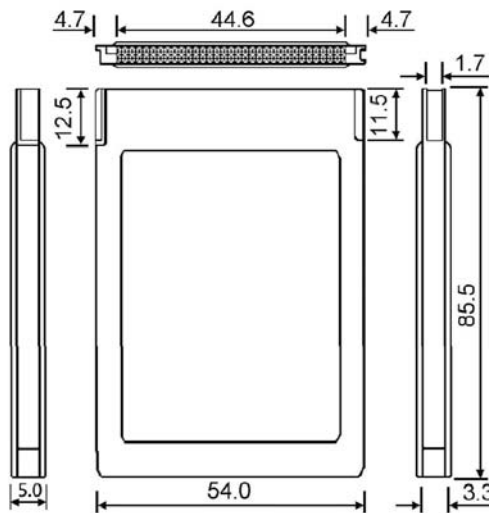
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### Physical Specifications

Length	85.6 mm
Width	54.0 mm
Thickness	5.0 mm



### California PC FLASH

#### Aviation Series

ATA PC Card  
PCMCIA Flash

#### Industrial Grade

### Standard Part Numbers (SLC) / Industrial Temperature Aviation Series. Default part numbers shown below.

128MB	FPCI-128MB-4162	2GB	FPCI-02GB-4162
256MB	FPCI-256MB-4162	4GB	FPCI-04GB-4162
512MB	FPCI-512MB-4162	8GB	FPCI-08GB-4162
1GB	FPCI-01GB-4162		

#### Available Options:

- 2162 (removable disk, PIO 4, no DMA)
- 2262 (fixed disk, PIO 4, no DMA)
- 3162 (removable disk, MWDMA 2)
- 3262 (fixed disk, MWDMA 2)
- 4162 (removable disk, Ultra DMA 4) **Standard Default**
- 4262 (fixed disk, Ultra DMA 4)

Other custom formatting options available. Call or email with specific details you require.

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