

## Industrial Secure Digital (SD)



The California PC FLASH Industrial SD card supports the SD mode standard interfaced. It consists of a memory core and a high performance controller with wear-leveling technology and an advanced file management to increase the transfer rate and life cycle of the memory core. The California PC FLASH Industrial SD also provides Error Correcting Code (ECC) function to detect and correct errors automatically

- Supports SD mode Standard interface
- Supports Error Correcting Code function (ECC)
- HHIndustrial Temperature **-25°C ~+85°C**
- Designed for Harsh Environments
- Wear Leveling Function
- Automatic error correction and retry capabilities
- Supports power down and sleep modes
- +2.7 Volts to 3.6 Volts operation
- Variable clock rate 0 – 52 MHz
- Size 24 x 32 x 2.1 mm
- Durability: Minimum 100,000 insertion / removal cycles
- Low Power Consumption
- Data Retention: Up to 10 Years
- 128MB, 256MB, 512 MB, 1GB, 2GB

Industrial Secure Digital (SD)

Industrial Grade

Interface	SD mode, SPI
Number of pins	9

### Physical

Length	32 ± 0.1mm
Width	24 ± 0.1mm
Thickness	2.1 ± 0.1mm
Weight	2.0g

### Environmental Specifications

Temperature	Operating: Non-Operating	-25°C ~ +85°C -65°C ~ +95°C
Humidity	Operating: Non-operating:	8% to 95% 8% to 93%
Vibration	Operating & Non-operating	15G peak-to-peak maximum
Shock		1000 G max

32238 Paseo Adelanto Suite E  
San Juan Capistrano, CA 92675

Phone: (949) 487-1213  
Fax: (949) 487-1866

E-mail: sales@CaliforniaPC.com

For more product info. visit:  
[www.CaliforniaPC.com](http://www.CaliforniaPC.com)

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



### Power Requirement

Temperature	Operating: Non-Operating	-25°C ~ +85°C -65°C ~ +95°C
Humidity	Operating: Non-operating:	8% to 95% 8% to 93%
Vibration	Operating & Non-operating	15G peak-to-peak maximum
Shock		1000 G max

### Performance

Temperature	Operating: Non-Operating	-25°C ~ +85°C -65°C ~ +95°C
Humidity	Operating: Non-operating:	8% to 95% 8% to 93%
Vibration	Operating & Non-operating	15G peak-to-peak maximum
Shock		1000 G max

### Reliability

Data Retention	10 years
Warranty	3 Years

### Part Numbers

128MB	FSDI-128MB	1GB	FSDI-1024MB
256MB	FSDI-256MB	2GB	FSDI-2048MB
512MB	FSDI-512MB		

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