FX Series

SD Memory Card, Industrial SLC Model

■ **Product Outline**

FX series are SD/SDHC memory cards adopting built-in industrial type SLC NAND flash memory and is suitable for industrial applications where frequent writes are required. They are adequate for the applications, where large data load are written, such as security camera, factory automation, broadcast equipment and drive recorders. They are formatted complying with SD card specification.

■ **Product Specification** （specifications and appearances may be changed without notice.）

		512MB	1GB	2GB	4GB	8GB	16GB
Appearance							
Part Number		RP-SDFC51DA1	RP-SDFC01DA1	RP-SDF02GDA1	RP-SDFC04DA1	RP-SDFC08DA1	RP-SDFC16DA1
Capacity	Available user data area capacity *1)	495,190,016 byte	990,576,640 byte	2.014,445,568 byte	3,955,195,904 byte	8,048,836,608 byte	16,198,369,280 byte
Compliant Specification	SD Physical Specification	Ver. 3.01					
	SD speed class	CLASS 6			CLASS 10		
	UHS speed grade	---			U1		
	Speed mode	Default Speed mode, High Speed mode			Default Speed mode, High Speed mode, UHS-I (SDR12, SDR25, DDR50, SDR50, SDR104)		
Backside mark	Control Code	RABN	RABN	R2B9	RAB9	RAB9	RAB9
Read/Write Performance (up to)	Read	22MB/s (High Speed)	22MB/s (High Speed)	22MB/s (High Speed)	90MB/s (SDR104)	95MB/s (SDR104)	95MB/s (SDR104)
	Write	20MB/s (High Speed)	20MB/s (High Speed)	20MB/s (High Speed)	40MB/s (SDR104)	80MB/s (SDR104)	80MB/s (SDR104)
Absolute Maximum Ratings	Supply Voltage	Min : -0.3 V ; Max : +4.6 V					
	Input Voltage	Min : -0.3 V ; Max : VDD +0.3 V					
	Output Voltage	Min : -0.3 V ; Max : VDD +0.3 V					
	Output Current	Min : -24 mA ; Max : +24 mA					
Environmental Specification	Operating Temperature	-40 ℃ to +85 ℃					
	Storage Temperature	-40 ℃ to +85 ℃					
	Humidity	5 % RH to 95 % RH					
	Vibration	15 Gp-p					
	Shock	1,000 G					
	Mating Cycles	10,000 cycles					

*1) Free user area capacity after formatted.

Absolute Maximum Ratings are the values of limitation, which do not damage the card. So those values do not define the operational range.

Products comply with EU RoHS directives.

(2020.04.17)

■**Laser Mark on the Back-side**

Capacity	512MB	1GB	2GB	4GB	8GB	16GB
Part Number	RP-SDFC51DA1	RP-SDFC01DA1	RP-SDF02GDA1	RP-SDFC04DA1	RP-SDFC08DA1	RP-SDFC16DA1
Back side marking	CE 0000 00000000000 RP-SDFC51 MADE IN JAPAN	CE 0000 00000000000 RP-SDFC01 MADE IN JAPAN	CE 0000 00000000000 2GB F MADE IN JAPAN	CE 0000 00000000000 RP-SDFC04 MADE IN JAPAN	CE 0000 00000000000 RP-SDFC08 MADE IN JAPAN	CE 0000 00000000000 RP-SDFC16 MADE IN JAPAN

"CE"	CE Mark
"0000"	Control Code (Defined as product parts combination)
"00000000000"	Serial Number
The 3rd digit	last digit of Manufacture year
The 4th digit	Manufacture month (January->A, February->B,)
"2GB",	Card Capacity
"F"	Series name
"RP-SDFC51", "RP-SDFC01", "RP-SDFC04", "RP-SDFC08", "RP-SDFC16"	Series name
"MADE IN JAPAN"	Country of origin

■ **System Reliability**
  a. Powerful error detect and corrective function
  b. Static wear leveling
  c. Data recovery at power failure in writing
  d. Automatic refresh function to prevent uncorrectable error
  e. Bad block management

■ **Notice and Caution**
  If you think about the usage for which special quality or reliability of the products is needed and failure or malfunction of the products may directly threaten life or injury for the special usage (aeronautic or cosmic usage, military usage, combustion machine, life support applications or safety applications), please counsel with our contacts in advance.
  Write frequency and storage temperature will affect data retention time. Please make a backup for important data.

■ **Warranty**
  If the product cannot be used because of failure which is determined as defect in design or production of the product, it is replaced by same product or equivalent one within 12 months from the delivery date of product.

(2020.04.17)

Mouser Electronics

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