G Series

SD Memory Card, Industrial MLC Model

■ Product Outline

G series are SDHC memory cards adopting built-in industrial type MLC NAND flash memory and are suitable for industrial applications where large data storage and high speed writes are required. They are adequate for the applications, where large data load are written, such as Broadcast Equipment, Security Camera, Car Navigation Systems and Drive Recorders. They are formatted complying with SD card specification.

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

		16GB	32GB
Appearance			
Part Number		RP-SDGD16DA2	RP-SDGD32DA2
Capacity	Available user data area capacity *1)	16,198,369,280 byte	31,629,213,696 byte
Memory	Flash Memory Type	MLC 64Gbit x2	MLC 64Gbit x4
Compliant Specification	SD Physical Specification	Ver. 3.01	
	SD Speed Class	CLASS 10	
	UHS Speed Grade	U1	
	Speed mode	Default Speed, High Speed, SDR12, SDR25, SDR50	
Absolute Maximum Ratings *2)	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	

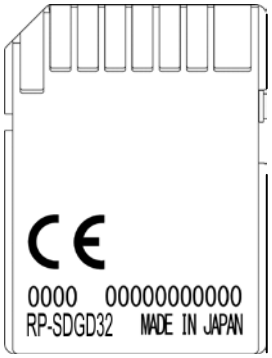
*1) Free area capacity after formatted.

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

- Absolute Maximum Ratings are the values of limitation, which do not damage the card. Those values do not define the operational range.
- Products comply with EU RoHS directives.

(2018.01.30)

■Laser Mark on the Back-side (example; 32GB)



"0000"	Control Code
"00000000000"	Serial Number
3rd digit	Last digit of Manufacture year
4th digit	Manufacture month (January->A, February->B,)
"RP-SDGD32"	Product 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.

(2018.01.30)