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GD Series

SD Memory Card, Industrial MLC Model

■ **Product Outline**

GD series are SDHC/SDXC 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.)

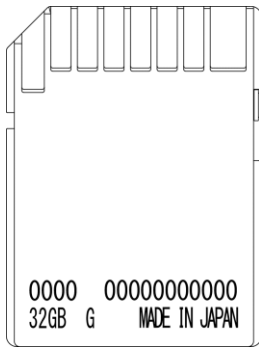
		32GB	64GB
Appearance			
Part Number		RP-SDGD32DA1	RP-SDGD64DA1
Capacity	Available user data area capacity *1)	31,629,213,696 byte	63,216,156,672 byte
Compliant Specification	SD Physical Specification	Ver. 3.01	
	SD speed class	CLASS ¹⁰	
	UHS speed grade	U ¹	
	Speed mode	Default Speed mode, High Speed mode, UHS-I (SDR12, SDR25, SDR50)	
Backside mark	Control Code	D4JH	
Read/Write Performance (up to)	Read	45 MB/s (SDR50) ; 20 MB/s (High Speed)	
	Write	12 MB/s (SDR50) ; 12 MB/s (High Speed)	
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 degree C to +85 degree C	
	Storage Temperature	-40 degree C to +85 degree C	
	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.

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



“0000” Control Code (Defined as product parts combination)
“00YM0000000” Serial Number
Y Last digit of Manufacture year
M Manufacture month (January->A, February->B,)
“32GB” Card Capacity
“G” Series name
“MADE IN JAPAN” Country of origin

■ System Reliability

- Powerful error detect and corrective function
- Static wear leveling
- Data recovery at power failure in writing
- Automatic refresh function to prevent uncorrectable error
- 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.