P Series

SD Memory Card, Industrial MLC Model

■ Product Outline

P series are SDHC memory cards adopting built-in industrial MLC type NAND flash memory and is suitable for industrial applications. They are adequate for the applications such as automotive use, security camera, factory automation, broadcast equipment, handy terminal etc. They are formatted complying with SD card specification.

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

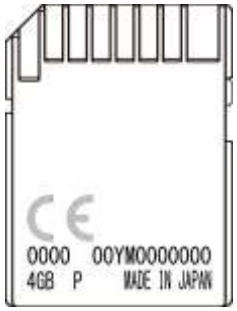
		4GB	8GB	16GB
Appearance				
Part Number		RP-SDP04G	RP-SDP08G	RP-SDP16G
Capacity	Available user data area capacity*1)	3,955,195,904 byte	7,998,504,960 byte	16,194,174,976 byte
Compliant Specifiction	SD Physical Specification	Ver. 3.01		
	SD speed class	CLASS 4		
	UHS speed grade	not supported		
	Speed mode	High Speed, Default Speed		
Backside mark	Control Code	D0BC		
Read/Write Performance (up to)	Read	22MB/s (High Speed)	22MB/s (High Speed)	22MB/s (High Speed)
	Write	12MB/s (High Speed)	12MB/s (High Speed)	12MB/s (High Speed)
Absolute Maximum Ratings	Supply Voltage	Min: -0.3V Max: 4.6V		
	Input Voltage	Min: -0.3V Max: VDD+0.3V		
	Output Voltage	Min: -0.3V Max: VDD+0.3V		
	Output Current	Min: -24mA Max: 24mA		
Environmental Specification	Operating Temperature	-40 degree C to 85 degree C		
	Storage Temperature	-40 degree C to 85 degree C		
	Humidity	5 % to 95 %		
	Vibration	15 Gp-p		
	Shock	1000 G		
	Mating Cycles	10,000 cycles		

*1) Free area capacity after formatted

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.

■Laser Mark on the Back-side (example; 4GB)



"0000" Control Code (Defined as product parts combination)
"00YM0000000" Serial Number
Y Last digit of Manufacture year
M Manufacture month (January->A, February->B,)
"4GB" Card Capacity
"P" 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
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 in production of the product, it is replaced by same product or equivalent one within 12 months from the delivery date of product.