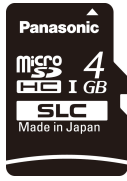# SC Series

■ **Product Outline**

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

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

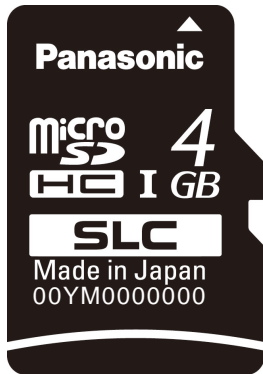|		2GB	4GB	8GB
Appearance				
	Part Number	RP-SMSC02	RP-SMSC04	RP-SMSC08
Capacity	Available user data area capacity *1)	1,981,480,960 byte	3,971,973,120 byte	7,960,756,224 byte
Memory	Flash Memory Type	SLC 16Gbit x1	SLC 16Gbit x2	SLC 16Gbit x4
Compliant Specification	SD Physical Specification	Ver. 3.01	Ver. 4.20	
	SD Speed Class	CLASS 6	CLASS 10	
	UHS Speed Grade	---	3	
	Speed mode	Default Speed High Speed	Default Speed, High Speed, SDR12, SDR25, SDR50, DDR50, SDR104 *2)	
Read/Write Performance (up to)	Read	22MB/s (High Speed)	90MB/s (SDR104) *2)	
	Write	20MB/s (High Speed)	40MB/s (SDR104) *2)	
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 *3)		
	Vibration	15 Gp-p		
	Shock	1,000 G		
	Mating Cycles	10,000 cycles		

*1) Free area capacity after formatted.
*2) SDR104 mode is not supported when using microSD adapter.
*3) Maximum humidity does not mean the product can be operated or stored with the condition with the maximum of the temperature for long time. As for long time, please operate or store the product under the condition of below +40 degree C, 93% RH.

- 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.

■ Marking Specification (example : 4GB)

"4GB"	Card Capacity
"Made in Japan"	Country of origin
"00YM0000000"	Serial Number
Y	Last digit of Manufacture year
M	Manufacture month

■ System Reliability

a. 29bit Error Correction every 1024 Byte reading.
b. Static wear leveling
c. Data recovery at power failure in writing
d. Auto refresh
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.

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