QE Series

SDHC Memory Card, Consumer Plus pSLC Model

■ Product Outline

QE series are SDHC memory cards adopting built-in pSLC technology. This enables higher endurance/data retention and power fail robustness than MLC NAND by using 1 bit per cell in pSLC mode.   They are formatted complying with SD card specification.

■ Product Specification (specifications and appearances are subject to be changed without notice.)
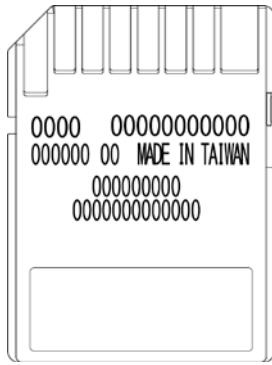
		4GB	8GB	16GB
Appearance				
Part Number		RP-SDQE04DA1	RP-SDQE08DA1	RP-SDQE16DA1
Capacity	Available user data area capacity *1)	3,971,973,120 bytes	7,960,756,224 bytes	15,997,042,688 byte
Compliant Specification	SD Physical Specification	Ver. 3.01		
	SD speed class	**CLASS⑩**		
	UHS speed grade	**Ⅰ ⑴**		
	Speed mode	Default Speed mode, High Speed mode, UHS-I (SDR12, SDR25, DDR50, SDR50,SDR104)		
Backside mark	Control Code	---		
Read/Write Performance (up to)	Read	70MB/s (SDR104 mode)	70MB/s (SDR104 mode)	70MB/s (SDR104 mode)
	Write	43MB/s (SDR104 mode)	43MB/s (SDR104 mode)	43MB/s (SDR104 mode)
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	-25 ℃ 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.

(201706.09)

■Marking Specification

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0000   00000000000
000000  00  MADE IN TAIWAN
     000000000
   0000000000000
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"0000"   Control Code (Defined as product parts combination)
"00000000000"   Serial Number
    3rd digit   Last digit of Manufacture year
    4th digit   Manufacture month (January->A, February->B,   )
"MADE IN TAIWAN" Country of origin
"000000 00", "000000000", "0000000000000"   Internal control code

■ System Reliability
   a. Error detect and corrective function
   b. Static wear leveling
   c. 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.