TE Series

SD Memory Card, Industrial Mid. MLC Model

■ **Product Outline**

TE series are SDHC memory cards adopting built-in consumer MLC type NAND flash memory and suitable for semi industrial applications. They are adequate for industrial and rather cost-sensitive consumer applications. They are formatted complying with SD card specification.

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

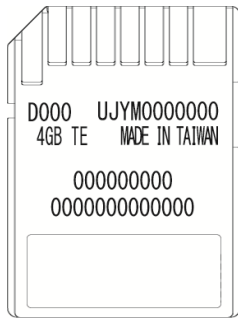|		4GB	8GB	16GB	32GB
Appearance *1)					
Part Number		RP-SDTE04	RP-SDTE08	RP-SDTE16	RP-SDTE32
Capacity	Available user data area capacity *2)	3,971,973,120 byte	7,960,756,224 byte	16,001,236,992 byte	32,077,479,936 byte
Compliant Specifiction	SD Physical Specification	Ver. 3.01			
	SD speed class	CLASS4			
	UHS speed grade	not supported			
	Speed mode	High Speed, Default Speed			
Backside mark	Control Code	-			
Read/Write Performance (up to)	Read	20MB/s (High Speed)	20MB/s (High Speed)	20MB/s (High Speed)	20MB/s (High Speed)
	Write	9MB/s (High Speed)	9MB/s (High Speed)	9MB/s (High Speed)	9MB/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	-25 degree C to 85 degree C			
	Storage Temperature	-25 degree C to 85 degree C			
	Humidity	5 % to 95 %			
	Vibration	15 Gp-p			
	Shock	1000 G			
	Mating Cycles	10,000 cycles			

*1) Card appearances are tentative.
*2) Free area capacity after formatted.

Absolute maximum ratings are the values of limitation, which do not damage card. Those values do not define operational range.

Products comply with EU RoHS directives.

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

D000　UJYM0000000
4GB TE　MADE IN TAIWAN
000000000
0000000000000

"D000"　Control Code (Defined as product parts combination)
"UJYM0000000"　Serial Number
　Y　Last digit of Manufacture year
　M　Manufacture month (January->A, February->B,　)
"4GB"　Card Capacity
"TE"　Series name
"MADE IN TAIWAN"　Country of origin
"000000000", "0000000000000"　Internal control code

■ System Reliability
　a. Error detect and corrective function
　b. Static wear leveling
　c. Bad block management
　d. Pair Page Management
　e. Auto Refresh

■ Notice and Caution
　The products are intended for the general use for the standard electric machinery (office machinery, communication machinery, measurement instruments or industrial use products).
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 production date of product.