



## microSDHC Memory Card

### ■ Product Outline

Panasonic's newest generation of microSD memory cards, TMTA series feature a microSD UHS-I interface, outstanding performance, C10 and UHS-I U1, making them ideal to integrate with existing SD ECO infrastructure for a wide variety of microSD host devices such as surveillance camera, Broadcast equipment. Available in capacities of 4GB – 8GB, TMTA series with an innovated controller and firmware technology enables prolonged data retention and extended life cycles.

### ■ Product Specification (specification and appearances are subject to be changed without notice)

Capacity		4GB	8GB
Appearance			
Part number		RP-TMTA04DA1	RP-TMTA08DA1
Compliant Specification	SD card Specification	Ver.6.10	
	SD speed class	CLASS10	
	UHS speed grade	I U1	
	Speed mode	Default Speed Mode, High Speed Mode, SDR12/SDR25/SDR50/DDR50/SDR104	
Absolute Maximum Rating*	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°C~+85°C	
	Storage Temperature	-40°C~+85°C	
	Humidity**	5 % RH to 95 % RH	
	Vibration	15 Gp-p	
	Shock	1,000G	
	Mating Cycles	10,000 cycles	
RoHS		Compliant EU RoHS directives	

\*Absolute Maximum Ratings are the values of limitation, which do not damage the card. So those do not define the operational range.

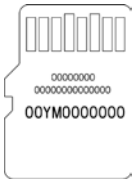
\*\*Maximum humidity does not mean the product can be operated or stored with the condition with the maximum of the temperature for long time. Please operate or store the product under the condition of below above temperature and humidity.

## ■ Marking Specification



"8GB"  
"MADE IN TAIWAN"

Card Capacity  
Country of origin



"00YM0000000"  
Y  
M  
"000000000",  
"00000000000000"

Serial Number  
Last digit of Manufacture year  
Manufacture month  
(January->A, February->B, )  
Internal control code  
Internal control code

## ■ System Reliability

- Error detect and corrective function
- Static wear leveling
- 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 consult 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.

<b>Publisher:</b>	Panasonic Corporation
<b>Copyright owner:</b>	Panasonic Corporation (All rights reserved)
<b>Confidentiality:</b>	The contents of this document are deemed confidential information of Panasonic Corporation. As such, the contents and your right to use the consents are subject to the confidentiality obligations stated in the written agreement you entered into Panasonic Corporation in any ways.
<b>SD Logos:</b>	SD Logos (SD, SDHC, SDXC, SDUC, microSD, microSDHC, microSDXC, microSDUC Logos) are a trademark of SD-3C LLC.
<b>SDA Logos:</b>	SD Card Association(SDA) Logos (UHS BUS, UHS Speed Class, Video Speed Class, Non-CPRM Pictograph, SD Express Bus) are pictographs of SDA.