# **TC** series

## microSDHC/SDXC Memory Card

### Product Outline

Panasonic's newest generation of 3D NAND-based microSD memory cards, TC Series, features a microSD UHS-I interface and outstanding performance with Class 10, UHS-I U1 speeds. This makes them ideal to integrate with existing SD infrastructure for a wide variety of host devices. Available in capacities of 16GB – 256GB, TC Series enables users to experience prolonged data retention and extended life cycles by the use of an innovative memory controller and firmware technology.

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

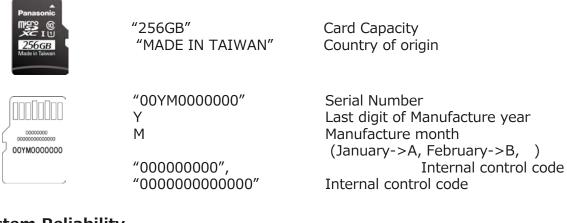
Capacity		16GB	32GB	64GB	128GB	256GB	
Appearance		Panasonic MSS @ TET I U 16GB Made in Taiwan	Panasonic MSS (C) ETET I (J) 32GB Made in Taiwan	Panasonic Micro iii Acc I II 64GB Made in Taiwan	Panasonic MSC II XC III 1286B Made in Taiwan	Panasonic MEPS @ XC I U 256GB Made in Tawan	
Part number		RP-TMTC16DA1	RP-TMTC32DA1	RP-TMTC64DA1	RP-TMTC12DA1	RP-TMTC25DA1	
Compliant Specification	SD card Specification	Ver.6.10					
	SD speed class	CLASS					
	UHS speed grade	I ប					
	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℃~+85℃					
	Storage Temperature	-40℃~+85℃					
	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 means 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.

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### Marking Specification



### 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 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.

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