Embedded Solutions

microSD Cards

Industrial Temp microSDHC/microSD230I

Wide Temperature

Transcend's SLC mode solution features excellent endurance and reliability at cost-effective prices. The industrial-grade microSDHC/microSD230I cards offer wide temperature tolerance (-40°C to 85°C) for industrial use. These cards are the ideal solution for small form factor and write-intensive applications such as medical devices, surveillance systems, and POS terminals. Transcend's memory cards are manufactured using high-quality flash chips and undergo extensive reliability testing at all stages of production.

Features

- Manufactured with high-quality 3D NAND flash chips and SLC mode for exceptional endurance and reliability
- Class 10 speed rating guarantees fast and reliable write performance (only microSDHC supported)
- Compatible with SD Specification Ver. 3.01
- Built-in ECC (Error Correction Code) and Wear Leveling functionality
- Supports S.M.A.R.T. function
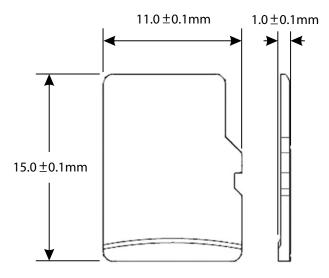- RoHS compliant

Ordering Information

2GB	TS2GUSD230I
4GB	TS4GUSD230I

Specifications

Appearance	Dimensions (Max.)	11 mm x 15 mm x 1 mm (0.43" x 0.59" x 0.04")
	Form Factor	microSD flash card
Storage	Flash Type	3D NAND flash
	Capacity	2 GB/4 GB
Operating Environment	Operating Voltage	2.7V ~ 3.6V
	Drop Test	1.5m free fall
	Operating Temperature	-40℃ (-40°F) ~ 85℃ (185°F)
	Storage Temperature	-40℃ (-40°F) ~ 85℃ (185°F)
	Humidity	0% ~ 95%
	Shock	Acceleration: 490 m/s² (standard holding time: 11 ms, semi-sine wave, velocity change: 3.44 m/s)
	Vibration (Operating)	20 G (peak-to-peak), 20 Hz ~ 2,000 Hz (frequency)
Power	Power Consumption (Max.)	0.2 watt(s)
Performance	Read Speed (Max.)	22 MB/s
	Write Speed (Max.)	21 MB/s
	Terabytes Written (Max.)	98 TB
Warranty	Warranty	Three-year Limited Warranty
Note	• Speed may vary due to host hardware, software, usage, and storage capacity.	

Mechanical Dimensions

11.0±0.1mm 1.0±0.1mm

15.0±0.1mm

Product specifications are subject to change without notice. Pictures shown may differ from actual products. Total accessible capacity varies depending on operating environment.
Due to the complexity and variety of industrial applications, Transcend cannot guarantee 100% compatibility with all platforms and under all scenarios. For special applications and environments, it is strongly suggested that you contact Transcend beforehand for clarification.

Please feel free to contact us with any special requests you might have.
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