Embedded Solutions

microSD Cards

microSDHC220I

Transcend's SuperMLC technology is a cost-effective solution that offers performance close to that of SLC NAND flash at a more affordable price. These industrial-grade SuperMLC microSD cards combine the advantages of high-performance, exceptional endurance, and wide temperature tolerance (-40°C to 85°C) at affordable prices, making them ideal for write-intensive applications such as medical devices, surveillance systems, and POS terminals.

Hardware Features

- Compliant with RoHS 2.0 standards
- Promised operational reliability in a wide temperature range (from -40°C to 85°C)
- Compliant with SD specification 3.01
- Electrostatic protection (ESD IEC 61000-4-2)

Firmware Features

- Transcend's exclusive SuperMLC technology
- Enhanced S.M.A.R.T. function for durability
- Built-in ECC (Error Correction Code) functionality
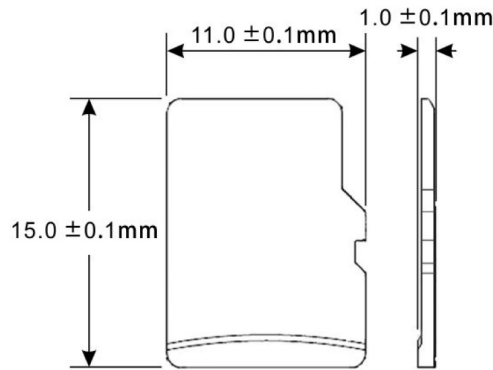- Wear-Leveling
- Early Move

Ordering Information

4GB	TS4GUSD220I
8GB	TS8GUSD220I
16GB	TS16GUSD220I

Specifications

Appearance	Dimensions	11 mm x 15 mm x 1 mm (0.43" x 0.59" x 0.04")
	Form Factor	microSD flash card
Storage	Flash Type	SuperMLC
	Capacity	4 GB / 8 GB / 16 GB
Operating Environment	Operating Voltage	2.7V ~ 3.6V
	Drop Test	1.5m free fall
	Operating Temperature	Wide Temp. -40°C (-40°F) ~ 85°C (185°F)
	Storage Temperature	-40°C (-40°F) ~ 85°C (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.)	0.72 watt(s)
Performance	Read Speed (Max.)	up to 81 MB/s
	Write Speed (Max.)	up to 46 MB/s
	Terabytes Written (Max.)	300 TBW
Warranty	Certificate	CE / FCC
	Warranty	Three-year Limited Warranty

Mechanical Dimensions