Transcend®

www.transcend-info.com

Embedded Solutions

microSD Cards

microSDHC520I

The ideal choice for small form factor devices with high performance demands in extreme temperatures from -40°C to 85°C, Transcend's Extended Temperature microSDHC520I cards offer high-speed Class 10 data transfer rates, and are specifically designed for industrial applications. To ensure reliability and endurance, these microSD cards are manufactured using high-quality MLC NAND Flash chips and undergo extensive reliability testing at all stages of production at an attractive price.

Hardware Features

- Compliant with RoHS standards
- MLC NAND flash
- Compliant with Speed Class 10
- Compliant with SD specification 3.01
- Promised operational reliability in a wide temperature range (from -40°C to 85°C)
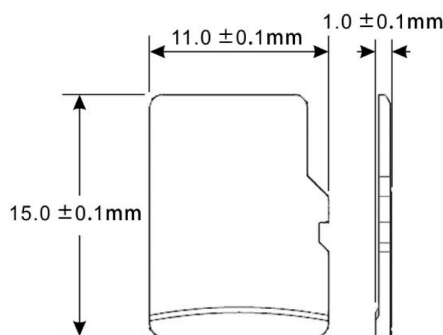
Firmware Features

- Supports Content Protection for Recorded Media (CPRM)
- Built-in ECC (Error Correction Code) functionality
- Wear-Leveling
- Early Move

Ordering Information

8GB	TS8GUSD520I

Transcend®

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	MLC NAND flash
	Capacity	8 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 ~ 2000 Hz (frequency)
Power	Power Consumption (Max.)	0.72 watt(s)
Performance	Read Speed (Max.)	up to 24 MB/s
	Write Speed (Max.)	up to 16 MB/s
	Terabytes Written (TBW)	up to 15 TBW
Warranty	Certificate	CE / FCC / UKCA
	Warranty	Three-year Limited Warranty

Mechanical Dimensions

Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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