



## 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)

### Ordering Information

8GB	TS8GUSD520I
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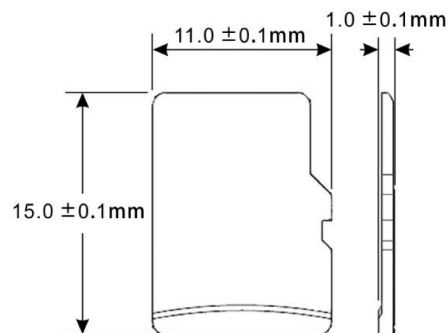
### Firmware Features

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

## Specifications

<b>Appearance</b>	Dimensions	11 mm x 15 mm x 1 mm (0.43" x 0.59" x 0.04")
	Form Factor	microSD flash card
<b>Storage</b>	Flash Type	MLC NAND flash
	Capacity	8 GB
<b>Operating Environment</b>	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/s <sup>2</sup> (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)
<b>Power</b>	Power Consumption (Max.)	0.72 watt(s)
<b>Performance</b>	Read Speed (Max.)	up to 24 MB/s
	Write Speed (Max.)	up to 16 MB/s
	Terabytes Written (TBW)	up to 15 TBW
<b>Warranty</b>	Certificate	CE / FCC / UKCA
	Warranty	Three-year Limited Warranty

## Mechanical Dimensions



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.

## 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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