

Embedded Solutions



microSD Cards

microSDHC/SDXC10I

Transcend's Industrial Temp microSD cards offer customers both design flexibility and cost savings. While small, Transcend's microSD cards have wide temperature tolerance (-40°C to 85°C). The cards feature high-quality controller and MLC flash chips, providing excellent shock and vibration resistance and low power consumption, delivering the performance and reliability of industrial memory cards in a small form factor.

Hardware Features

- Durability: 10,000 insertion/removal cycles
- Promised operational reliability in a wide temperature range (from -40°C to 85°C)
- Electrostatic protection (ESD IEC 61000-4-2)
- IPX7 waterproof rating
- MLC NAND flash

Firmware Features

- Supports S.M.A.R.T. function to conduct health monitoring, analysis, and reporting for storage devices
- Built-in ECC (Error Correction Code) functionality
- Wear-Leveling

Ordering Information

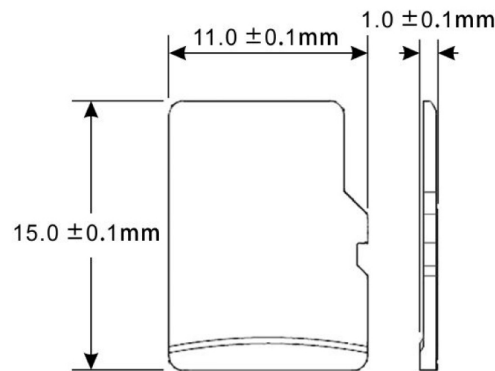
8GB	TS8GUSDC10I
16GB	TS16GUSDC10I
32GB	TS32GUSDC10I
64GB	TS64GUSDC10I

*Scope Pro is only available when used with the [RDF5](#) card reader.

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 / 16 GB / 32 GB / 64 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/s ² (standard holding time: 11 ms, semi-sine wave, velocity change: 3.44 m/s)
	Vibration (Operating)	20 G (peak-to-peak), 10 Hz ~ 2,000 Hz (frequency)
Power	Power Consumption (Max.)	0.72 watt(s)
Performance	Read Speed (Max.)	up to 24 MB/s
	Write Speed (Max.)	up to 22 MB/s
	Terabytes Written (TBW)	up to 120 TBW
Warranty	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.