

microSD Cards

USD250I

Transcend's USD250I industrial microSD memory card features BiCS8 218-layer 3D NAND flash and SLC Mode technology, with endurance rated for 100K program/erase (P/E) cycles. It is suitable for industrial equipment, embedded systems, and other write-intensive applications.

With an operating temperature range of -40°C to 85°C, the USD250I is designed for harsh industrial environments. It supports UHS-I, U3, V30, and A2 specifications for reliable performance in demanding applications.

Hardware Features

- Compliant with RoHS 2.0 standards
- Electrostatic protection (ESD IEC 61000-4-2)
- Compliant with SD specification 6.1
- Compliant with UHS-I
- Compliant with Video Speed Class 30 (V30)

Ordering Information

40GB	TS40GUSD250I
80GB	TS80GUSD250I
160GB	TS160GUSD250I
320GB	TS320GUSD250I

Firmware Features

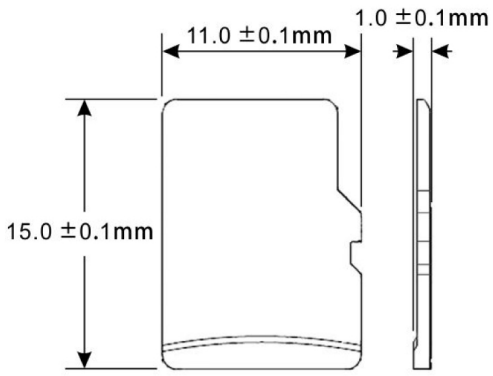
- Built-in 2K LDPC ECC (Error Correction Code) functionality
- Early Move
- Supports S.M.A.R.T. function to conduct health monitoring, analysis, and reporting for storage devices
- Global Wear-Leveling

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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	218-layer 3D NAND flash (SLC mode)
	Capacity	40 GB / 80 GB / 160 GB / 320 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), 10 Hz ~ 2,000 Hz (frequency)
Power	Power Consumption (Max.)	2.88 watt(s)
Performance	Read Speed (Max.)	Up to 100 MB/s
	Write Speed (Max.)	Up to 85 MB/s
	Terabytes Written (TBW)	Up to 14,320 TBW
Warranty	Certificate	CE / UKCA / FCC
	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.

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