Embedded Solutions

microSD Cards

USD240I

Utilizing top-quality 112-layer 3D NAND flash with SLC Mode technology, and rated to endure 100K P/E cycles, Transcend's USD240I microSDXC memory card combines the advantages of high performance and exceptional endurance at an affordable price. Transcend's microSDXC USD240I is able to operate in wide operating temperatures of -40℃~85℃, ideal for write-intensive applications such as outdoor transportation, surveillance systems, digital signage, and POS terminals.

Hardware Features

- Compliant with SD specification 6.1
- Compliant with UHS-I
- Compliant with Video Speed Class 30 (V30)
- Compliant with Application Performance Class 2 (A2)
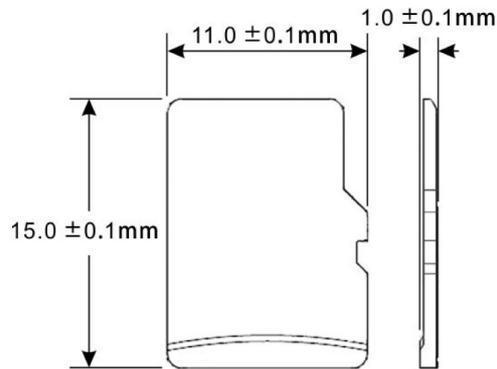- Endurance: 100K P/E cycles (Program/Erase cycles) guaranteed

Firmware Features

- Built-in 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
- Wear-Leveling

Ordering Information

20GB	TS20GUSD240I
40GB	TS40GUSD240I
80GB	TS80GUSD240I
160GB	TS160GUSD240I

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	112-layer 3D NAND flash (SLC mode)
	Capacity	20 GB / 40 GB / 80 GB / 160 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 80 MB/s
	Terabytes Written (TBW)	Up to 6,763 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.