



# Industrial microSD Memory Card

## Ideal for Extreme Conditions

Kingston’s Industrial Grade microSD card delivers reliable performance in extreme conditions. Built for industrial applications, it offers high endurance, wide temperature resistance, and read speeds up to 100MB/s<sup>1</sup>. Designed for durability, it ensures consistent operation in harsh environments.

- Durable in Extreme Temperatures
- High Endurance
- UHS-I Speed Class U3, V30, A1
- Industrial Grade Built-In Features

### Specifications

Capacities <sup>2</sup>	8GB, 16GB, 32GB, 64GB, 128GB
Speed <sup>1</sup>	Up to 100MB/s read, 80MB/s write
Performance <sup>1</sup>	Class 10, UHS-I, U3, V30, A1
Endurance <sup>3</sup>	Up to 3840TBW 30K P/E cycles
NAND	TLC in pSLC mode
microSDHC Card Dimensions	11mm x 15mm x 1mm
SD Adapter Dimensions	24mm x 32mm x 2.1mm
Format	FAT32 for SDHC and ExFAT for SDXC
Operating & Storage Temperature	-40°C to 85°C
Voltage	3.3V
Industrial Features	<ul style="list-style-type: none"> <li>• Bad Block Management</li> <li>• Strong ECC Engine</li> <li>• Power Failure Protection</li> <li>• Wear Leveling</li> <li>• Auto-Refresh Read Distribution Protection</li> <li>• Dynamic Data Refresh</li> <li>• SiP – System in Package</li> <li>• Garbage Collection</li> <li>• Health Monitoring</li> </ul>
Durability <sup>4</sup>	Waterproof Temperature proof Protected from airport x-rays
Thermal Cycle Testing	Interval testing completed at various extreme temperatures
Vigorous Temperature Humidity Bias	Several hundred hours of testing to ensure durability at varying levels of humidity
Wide Temp Chamber Testing	Completed on all SDCIT2 cards prior to production
Warranty <sup>5</sup>	3 years

**Part Numbers** Card (SD adapter included)

SDCIT2/8GB	SDCIT2/16GB	SDCIT2/32GB
SDCIT2/64GB	SDCIT2/128GB	

**Part Numbers** Card (SD adapter not included)

SDCIT2/8GBSP	SDCIT2/16GBSP	SDCIT2/32GBSP
SDCIT2/64GBSP	SDCIT2/128GBSP	

1. Speed may vary due to host and device configuration.
2. Some of the listed capacity on a Flash storage device is used for formatting and other functions and thus is not available for data storage. As such, the actual available capacity for data storage is less than what is listed on the product. For more information go to Kingston's [Flash Memory Guide](#).
3. Terabytes Written (TBW) is derived from the endurance under the highest capacity and is based on internal metrics that quantifies how much data can be written to a card in its lifespan.
4. IEC/EN 60529 IPX7 certified for protection against continual water submersion up to 30 minutes and depth up to 1m. Withstands temperature range from -40°C to 85°C. Protected against X-ray exposure based on ISO7816-1 guidelines.
5. Kingston Flash Cards are designed and tested for compatibility with consumer-grade market products. It is recommended that you contact Kingston directly for any OEM opportunities or special use applications that are beyond standard daily consumer usage.



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