



## ADATA Industrial & Embedded Solutions

# Memory Card

The ADATA IUDD33K industrial-grade A1 (Application Performance Class 1) microSD card implements 3D TLC Flash, sports a 3K P/E cycle rating, and read and write speeds of up to 95/70MB per second. The IUDD33K is ideally suited for applications such as industrial automation, surveillance systems, point of sale systems. For excellent durability, the IUDD33K is built to withstand wide-temperature ranges (-40°C to 85°C). The IUDD33K also supports LDPC error correcting code and wear leveling technologies, and features ADATA's proprietary A<sup>+</sup> SLC technology for a long product lifespan.

### Key Features

- P/E Cycle upgrade to 3K – improved endurance and reliability
- Large capacity up to 256GB
- Supports LDPC ECC error correcting
- Meets SD 5.1 specification and Application Performance Class 1 (A1) standard
- Supports SD and SPI modes
- Industrial operating temperature: -40°C to 85°C
- Low power consumption: 0.5W
- Supports S.M.A.R.T., Wear Leveling, End-to-End Data Protection, A<sup>+</sup> SLC Mode



### Target Applications

Surveillance / Automation / Gaming / Portable Devices / In-Vehicle / POS system

30μ Golden Finger	Anti-Sulfur Resistor	Conformal Coating	Wide Temperature	EDS & EMI Safe	Shock & Vibration Resistant	Power Fail Protection & Recovery	Wear Leveling	Secure Erase	TRIM	Low Power Consumption
—	—	—	●	●	●	●	●	●	—	●

● Supported    — Not available

## Specifications

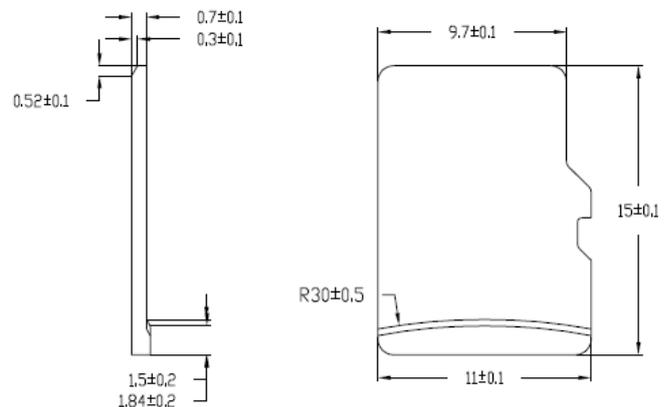
Model	IUDD33K
Interface	SD 5.1
Compatibility	SD 5.1
Dimensions (L x W x H)	11 x 15 x 1mm
Flash Type	3D TLC
Capacity	(TLC) 16GB / 32GB / 64GB / 128GB / 256GB (A+ SLC) 4GB / 8GB / 16GB / 32GB / 64GB
Sequential Read (Max.)	95MB/s
Sequential Write (Max.)	70MB/s
Speed Class	UHS Speed : Class 1 Speed Class : Class 10 Video Speed Class : V10 Application Performance Class : A1
Operating Temperature (Commercial)	-25°C to 85°C
Operating Temperature (Industrial)	-40°C to 85°C
Operating Voltage	3.3V ± 5%
Operating Humidity	5%-95% RH non-condensing
Power Consumption (Max.)	0.5W
MTBF (Est.)	>2,000,000 hours
Shock Resistance	1500G/0.5ms, Half Sine Wave
Vibration Resistance	20G (10-2000Hz)
Technologies	LDPC ECC, S.M.A.R.T., Wear Leveling, End-to-End Data Protection , Flash Protection, A+ SLC Mode

## Ordering Information

Capacity	3D TLC	3D TLC
	Commercial (-25°C to 85°C)	Industrial (-40°C to 85°C)
16GB	IUDD33K-016GR	IUDD33K-016GP
32GB	IUDD33K-032GR	IUDD33K-032GP
64GB	IUDD33K-064GR	IUDD33K-064GP
128GB	IUDD33K-128GR	-
256GB	IUDD33K-256GR	-



## Dimensions



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