



ADATA Industrial & Embedded Solutions

Memory Card

The ADATA IDU3A industrial-grade microSD cards feature high performance, low power consumption, high reliability and superb transfer rates. The card is suitable for removable storage applications that require security, convenience, performance and capacity. The industrial-grade extended temperature range of -40°C to 85°C is suitable for demanding industrial environments that require high reliability. ADATA's industrial-grade SD cards support a range of technology, including error correcting code (ECC), which ensures the integrity of data transfers by automatically detecting and correcting errors, and wear leveling technology, which ensures data is written evenly across all sectors, extending the life of the memory card.

Key Features

- Industrial operating temperature: -40°C to 85°C
- Supports ECC and Wear Leveling
- S.M.A.R.T. feature supported
- Hardware Power Detector and Flash Protection
- Supports SD and SPI modes
- Low power consumption: 0.5W



Target Applications

GPS, Handheld device, Smartphone, Mobile computer

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
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● Supported — Not available

Specifications

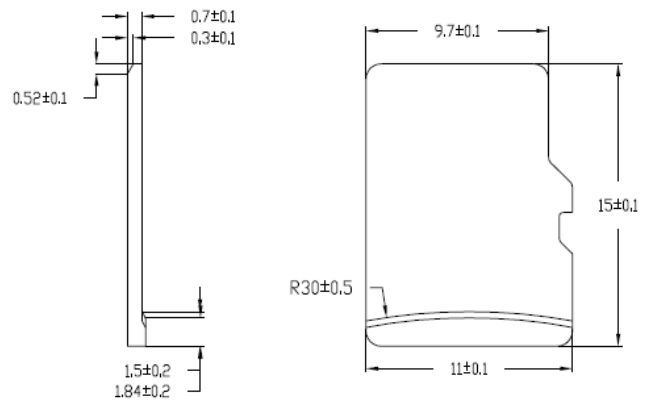
Model	IDU3A
Interface	SD 3.0
Compatibility	SD 1.1 / 2.0 / 3.0
Dimensions (L x W x H)	32 x 24 x 2.1mm
Flash Type	MLC
Capacity	8GB – 64GB
Sequential Read (Max.)	70MB/s
Sequential Write (Max.)	30MB/s
Operating Temperature (Commercial)	-25°C to 85°C
Operating Temperature (Industrial)	-40°C to 85°C
Operating Voltage	DC 2.7V – 3.6V
Operating Humidity	5%-95% RH non-condensing
Power Consumption (Max.)	0.5W
MTBF (Est.)	>1,000,000 hours
Shock Resistance	1500G/0.5ms, Half Sine Wave
Vibration Resistance	20G (10-2000Hz)
Technologies	ECC, S.M.A.R.T., Wear Leveling, H/W Power Detector and Flash Protection

Ordering Information

Capacity	Commercial (-25°C to 85°C)	Industrial (-40°C to 85°C)
8GB	IDU3A-008GM	IDU3A-008GT
16GB	IDU3A-016GM	IDU3A-016GT
32GB	IDU3A-032GM	IDU3A-032GT
64GB	IDU3A-064GM	IDU3A-064GT



Dimensions



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