



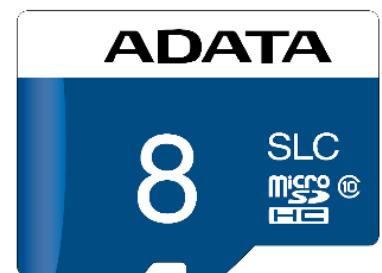
ADATA Industrial & Embedded Solutions

Memory Card

The IUDD362 industrial-grade microSD cards implement SLC NAND Flash for higher reliability and provide transfer rates up to 30/25MB per second. They also feature low power consumption, high reliability, and compatibility across diverse removable storage applications that require security, convenience, performance, and capacity. With a wide temperature tolerance range of -40°C to 85°C, the IUDD362 can operate normally even in harsh environments. All ADATA industrial-grade SD/microSD cards support a range of technologies, including error correcting code (ECC) to ensure the integrity of data transfers by automatically detecting and correcting errors, and wear leveling technology, which ensures data is written evenly across all sectors to extend the life of the memory card.

Key Features

- Industrial operating temperature: -40°C to 85°C
- SLC NAND Flash for higher durability and longer lifespan
- Supports ECC and Wear Leveling
- S.M.A.R.T. feature supported
- Hardware Power Detector and Flash Protection
- Low power consumption: 0.6W



Target Applications

Automation, Data logger, Surveillance, In-vehicle system, Transportation

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	IUDD362
Interface	SD 2.0 / 3.0
Compatibility	SD 2.0 / 3.0
Dimensions (L x W x H)	11 x 15 x 1mm
Flash Type	SLC
Capacity	1GB – 8GB
Sequential Read (Max.)	SD 2.0: Up to 20MB/s, SD 3.0: Up to 30MB/s
Sequential Write (Max.)	SD 2.0: Up to 15MB/s, SD 3.0: Up to 25MB/s
Operating Temperature (Industrial)	-40°C to 85°C
Operating Voltage	3.3V ± 5%
Operating Humidity	5%-95% RH non-condensing
Power Consumption (Max.)	0.6W
MTBF (Est.)	>2,000,000 hours
Shock Resistance	1500G/0.5ms, Half Sine Wave
Vibration Resistance	30G (10-2000Hz)
Technologies	ECC, S.M.A.R.T., Wear Leveling, H/W Power Detector, Flash Protection

Ordering Information

Capacity	Industrial (-40°C to 85°C)
1GB	IUDD362-001GW
2GB	IUDD362-002GW
4GB	IUDD362-004GW
8GB	IUDD362-008GW



Dimensions

