



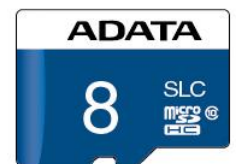
ADATA Industrial & Embedded Solutions

Micro SD 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

- SLC NAND Flash for higher reliability and durability
- Complies with SD 3.0 specifications
- Supports SD and SPI modes
- Industrial-grade extended temperature range of -40°C to 85°C
- Error Correction Code
- Wear Leveling
- H/W Power Detector and Flash Protection



Target Applications

Automation systems (ex: PLC), Transportation/In-vehicle data loggers, and other compatible industrial devices

30u Golden Finger	Anti-Sulfur Resistor	Conformal Coating	Wide Temperature	EDS & EMI Safe	Shock & Vibration Resistant	Lifetime Monitoring (LTM)	Wear Leveling	Secure Erase	TRIM	Low Power Consumption
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● Supported

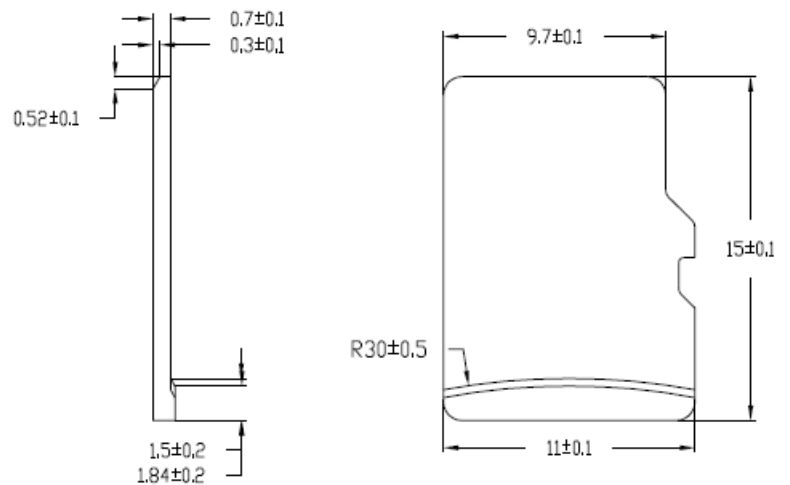
Specifications

Model	IUDD362
Capacity	1GB / 2GB / 4GB / 8GB
Dimensions (L x W x T)	11 x 15 x 1mm
Weight	0.25g
Interface	SD 2.0 (1GB / 2GB), SD 3.0 (4GB / 8GB)
Flash Type	SLC
Sequential Read (Max.)	20MB/s (1GB / 2GB), 30MB/s (4GB / 8GB)
Sequential Write (Max.)	15MB/s (1GB / 2GB), 25MB/s (4GB / 8GB)
Operating Temperature (Operational)	-40°C to 85°C
Operating Temperature (Non-operational)	-50°C to 95°C
Operating Voltage	3.3V ± 5%
Operating Humidity	5%-95% RH non-condensing
Power Consumption (Max)	0.6W
MTBF (Est)	3,000,000 hours
Shock Resistance	1500G/0.5ms, Half Sine Wave
Vibration Resistance	30G (10-2000Hz)
Technologies	ECC, Wear Leveling, H/W Power Detector, Flash Protection

Ordering Information

Capacity	Part Number
1GB	IUDD362-001GW
2GB	IUDD362-002GW
4GB	IUDD362-004GW
8GB	IUDD362-008GW

Dimensions



ADATA Technology

2F, No.258 Liancheng Rd.,
 Zhonghe Dist., New Taipei City 235, Taiwan
 Tel: +886-2-8228-0886
 Fax: +886-2-8228-0887
 E-Mail: adata@adata.com

