

## INDUSTRIAL



# ADATA Industrial & Embedded Solutions Memory Card

The ADATA IDC3B industrial-grade SD 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
- Wide range of capacities from 8GB to 256GB
- 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: 0.95W



### **Target Applications**

GPS, Handheld device, Video recorder, High-end digital camera, Road monitoring 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
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Support	ed – Not	available								

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## **Specifications**

Model	IDC3B			
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 – 256GB			
Sequential Read (Max.)	80MB/s			
Sequential Write (Max.)	50MB/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.)	0.95W			
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**

Conocity	Commercial	Industrial			
Capacity	(-25°C to 85°C)	(-40°C to 85°C)			
8GB	IDC3B-008GM	IDC3B-008GT			
16GB	IDC3B-016GM	IDC3B-016GT			
32GB	IDC3B-032GM	IDC3B-032GT			
64GB	IDC3B-064GM	IDC3B-064GT			
128GB	IDC3B-128GM	IDC3B-128GT			
256GB	IDC3B-256GM	IDC3B-256GT			
<b>FA C</b>					
FCC					

## Dimensions





