ADATA Industrial & Enterprise Solutions

CFast



ADATA ISC3E CFast cards combine the form-factor of a CF card with the high-speed SATA III interface for both high reliability and secure operation. The product provides industrial applications with better, more convenient performance. The industrial-grade extended temperature range of -40°C to 85°C is suitable for high-end instruments and equipment that must operate in harsh environments. The ADATA CFast card supports 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

- Fully compatible with standard SATA I/II/III specs
- Ultra-fast R/W speed up to 430/170MB/s
- Built-in Error Correcting Code (ECC)
- S.M.A.R.T. data integrity verification
- Supports Wear Leveling
- Low power consumption
- Compatible with CFast 2.0 specifications
- Flash Management
- H/W power detector and Flash Protection
- Extra-thick 30μ gold-plated contact pins





Target Applications

lindustrial computers, medical equipment, gambling machines, lottery machines, POS systems, kiosks and other industrial control related applications

	Wide Temperature	ESD and EMI Safe	Shock and Vibration Resistant	Lifetime Monitoring (LTM)	Secure Erase	Temperature Sensor	Wear Leveling	TRIM	Low Power Consumption
ISC3E	•	•	•	•	•	•	•	•	•

Supported ▲ By Request





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Specifications

Model	ISC3E				
Interface	7+17 pin SATA	7+17 pin SATA			
Capacity	4GB-64GB	4GB-128GB			
Flash Type	SLC	MLC			
Operating Voltage	3.3V	3.3V			
Sequential Read (Max)	Up to 165MB/s	Up to 430MB/s			
Sequential Write (Max)	Up to 170MB/s	Up to 120MB/s			
Data Transfer Mode	SATA III 6Gbps	SATA III 6Gbps			
Operating Temperatures	Commercial: 0°C to 70°C	Commercial: 0°C to 70°C			
Operating Temperatures	Industrial: -40°C to 85°C	Industrial: -40°C to 85°C			
Operating Humidity	5%~95% RH non-condensing	5%~95% RH non-condensing			
Power Consumption (Max)	1.1W	1.1W			
Vibration Resistance	20G (10-2000Hz)	20G (10-2000Hz)			
Shock Resistance	1500G/0.5ms, Half Sine Wave	1500G/0.5ms, Half Sine Wave			
Dimensions (L x W x H)	36.4 x 42.8 x 3.6mm	36.4 x 42.8 x 3.6mm			
S.M.A.R.T.	Supported	Supported			

Ordering Information

Capacity	SLC 0°C to 70°C	SLC -40°C to 85°C		
4GB	ISC3E-004GF	ISC3E-004GW		
8GB	ISC3E-008GF	ISC3E-008GW		
16GB	ISC3E-016GF	ISC3E-016GW		
32GB	ISC3E-032GF	ISC3E-032GW		
64GB	ISC3E-064GF	ISC3E-064GW		
Capacity	MLC 0°C to 70°C	MLC -40°C to 85°C		
4GB	ISC3E-004GM	ISC3E-004GT		
8GB	ISC3E-008GM	ISC3E-008GT		
16GB	ISC3E-016GM	ISC3E-016GT		
32GB	ISC3E-032GM	ISC3E-032GT		
64GB	ISC3E-064GM	ISC3E-064GT		
128GB	ISC3E-128GM	ISC3E-128GT		

Dimensions





