ADATA Industrial & Embedded Solutions

CFast Card

ADATA ISC3E SLC CFast cards combine the form-factor of a CF card with the high-speed SATA 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

- Compatible with CFast 2.0 specifications
- Built-in Error Correcting Code (ECC)
- SLC NAND Flash for higher durability and longer lifespan
- Low power consumption: 1.1W
- Supports ECC and Wear Leveling
- S.M.A.R.T feature supported
- NCQ Command set supported

Target Applications

Gaming, Networking, POS System, Kiosk, HMI (Industrial Panel), Industrial Control, Medical, Military, Aerospace

30μ 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
—	●	—	●	●	●	▲	●	●	●	●

● Supported   — Not available   ▲ By Request

Specifications

Model	ISC3E SLC
Interface	SATA III 6.0Gbps
Form Factor	7+17 pin SATA
Dimensions (L x W x H)	36.4 x 42.8 x 3.6mm
Flash Type	SLC
Capacity	4GB – 64GB
Sequential Read (Max.)	180MB/s
Sequential Write (Max.)	160MB/s
Operating Temperature (Commercial)	$0^{o}C$ to $70^{o}C$
Operating Temperature (Industrial)	$-40^{o}C$ to $85^{o}C$
Operating Voltage	3.3V
Operating Humidity	5%-95% RH non-condensing
Power Consumption (Max.)	1.1W
MTBF (Est.)	>2,000,000 hours
Shock Resistance	1500G/0.5ms, Half Sine Wave
Vibration Resistance	20G (10-2000Hz)
Technologies	ECC, Flash Management, Wear Leveling, H/W Power Detector and Flash Protection, S.M.A.R.T.

Ordering Information

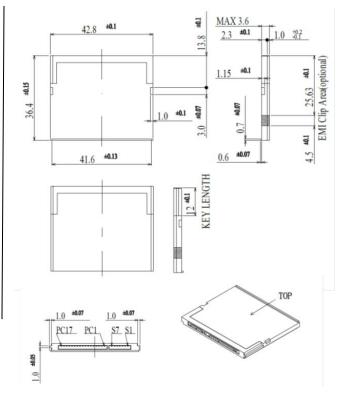| Capacity	Commercial (0°C to 70°C)	Industrial (-40°C to 85°C)
4GB	ISC3E-004GF	ISC3E-004GW
8GB	ISC3E-008GF	ISC3E-008GW
16GB	ISC3E-016GF	ISC3E-016GW
32GB	ISC3E-032GF	ISC3E-032GW
64GB	ISC3E-064GF	ISC3E-064GW

Dimensions

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