

CFast



ADATA CFast cards combine the form-factor of a CF card with the high-speed SATA interface for both high reliability and secure operation. Combining these two industrial standards, devices using the CFast specification can replace existing hard drives and CF cards in applications that require small form factors, long lifespan. They are highly shock resistant, vibration resistant, and can withstand extreme temperatures from -40°C to +85°C. The ADATA CFast operates at a low 3.3 volts, and comes with a full range of features including S.M.A.R.T, Error Correcting Code (ECC), and Wear Leveling.

ADATA CFast Card ISC3E is a single-level cell (SLC) and multi-level cell (MLC) solid state drive product. This drive specifically targets the needs of the markets, such as networking, and data communications applications requiring reliable internal storage with a small footprint. The CFast Card ISC3E is fully CFA compliant up to and including the 128GB capacity. Utilizing an industry-standard SATA interface and connector, the CFast Card ISC3E is easily integrated into a host system without any special BIOS modifications or additional device drivers.

Key Features

- Compliant with CFAST 2.0 specifications
- Compliant with SATA 3.1 revision standard
- Lock switch design for write-protection (optional)
- Lock switch design for quick erase (optional)
- Supports Data Secure Erase
- S.M.A.R.T. Function
- Thermal Sensor
- SATA Device sleep support (DevSlp)
- Design with 30µ golden finger
- Low power consumption
- 66 bit ECC support



Target Applications

System boot device, Communication Appliance, Data logger, Surveillance/DVR/Video system, Automation Solutions, Industry embedded systems, Aerospace/Transportation/Military

Wide Temperature Support	ESD and EMI Safe	Shock and Vibration Resistant	Lifetime Monitoring (LTM)	Secure Erase (Sanitize / Purge / Fast Erase)	Temperature Sensor	Wear Leveling	TRIM Support	Low Power Consumption
●	●	●	▲	▲	●	●	●	●

● Supported ▲ By Request



Specifications

Model	ISC3E	ISC3E
Interface	SATA 7+17 PIN	SATA 7+17 PIN
Capacity	4GB~64GB (SLC)	4GB~128GB (MLC)
Operating Voltage	3.3V	3.3V
Flash Type	SLC	MLC
Sequential Read (Max.)	165MB/s	435MB/s
Sequential Write (Max.)	170MB/s	120MB/s
Data Transfer Mode	CFAST2.0 (SATA 6.0Gbps)	CFAST2.0 (SATA 6.0Gbps)
Operating Temperature	Commercial: 0°C to +70°C Industrial: -40°C to +85°C	Commercial: 0°C to +70°C Industrial: -40°C to +85°C
Storage Temperature	Commercial: -25°C to +85°C Industrial: -50°C to +95°C	Commercial: -25°C to +85°C Industrial: -50°C to +95°C
Operating Humidity	10%~95%	10%~95%
Power Consumption	Active: 0.9W, Idle: 0.2W	Active: 0.9W, Idle: 0.2W
Vibration	20G(80~2000Hz)	20G(80~2000Hz)
Shock	1500G/0.5ms	1500G/0.5ms
MTBF	2,000,000 hours	1,000,000 hours
Dimensions (LxWxH/T)	36.4x42.8x3.6(mm)	36.4x42.8x3.6(mm)
SMART	Support	Support

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

