

# CFast



ADATA ICFS314 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

- 3D MLC NAND Flash for improved durability
- High R/W speed up to 550/520MB/s
- Wide Temperature Support: -40°C to 85°C
- Built-in Error Correcting Code (ECC)
- S.M.A.R.T. data integrity verification
- Supports Wear Leveling
- Low power consumption: 2.17W
- Compatible with CFast 2.0 specifications
- Flash Management
- H/W power detector and Flash Protection
- Extra-thick 30μ gold-plated contact pins



## Target Applications

Networking, POS System, Kiosk, Industrial Control, Personal Computing, Interactive Device, Gambling and Lottery Machine, Medical Application, Military, Aerospace

	Wide Temperature	ESD & EMI Safe	Shock & Vibration Resistant	Lifetime Monitoring (LTM)	Temperature Sensor	Wear Leveling	Secure Erase	TRIM	Low Power Consumption
ICFS314 3D MLC	●	●	●	●	●	●	●	●	●

● Supported



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## Specifications

Model	ICFS314
Interface	7+17 pin SATA
Capacity	32GB-512GB
Flash Type	3D MLC
Operating Voltage	3.3V
Sequential Read (Max)	Up to 550MB/s
Sequential Write (Max)	Up to 520MB/s
Data Transfer Mode	SATA III 6.0 Gbps
Operating Temperatures	Commercial: -10°C to 80°C Industrial: -40°C to 85°C
Operating Humidity	5%~95% RH non-condensing
Power Consumption (Max)	2.17W
Vibration Resistance	20G (10-2000Hz)
Shock Resistance	1500G/0.5ms, Half Sine Wave
Dimensions (L x W x H)	36.4 x 42.8 x 3.3mm
S.M.A.R.T.	Supported

## Ordering Information

Capacity	Commercial -10°C to 80°C	Industrial -40°C to 85°C
32GB	ICFS314-032GB	ICFS314-032GC
64GB	ICFS314-064GB	ICFS314-064GC
128GB	ICFS314-128GB	ICFS314-128GC
256GB	ICFS314-256GB	ICFS314-256GC
512GB	ICFS314-512GB	ICFS314-512GC

## Dimensions

